

Annual Environmental Report

2021



Tubbercurry

D0092-01

CONTENTS

1 EXECUTIVE SUMMARY AND INTRODUCTION TO THE 2021 AER

- 1.1 ANNUAL STATEMENT OF MEASURES
- 1.2 TREATMENT SUMMARY
- 1.3 ELV OVERVIEW
- 1.4 LICENSE SPECIFIC REPORT INCLUDED IN AER

2 TREATMENT PLANT PERFORMANCE AND IMPACT SUMMARY

- 2.1 TUBBERCURRY WWTP - TREATED DISCHARGE
 - 2.1.1 INFLUENT SUMMARY - TUBBERCURRY WWTP
 - 2.1.2 EFFLUENT MONITORING SUMMARY - TUBBERCURRY WWTP -
 - 2.1.3 AMBIENT MONITORING SUMMARY FOR THE TREATMENT PLANT DISCHARGE -
 - 2.1.4 OPERATIONAL REPORTS SUMMARY FOR TUBBERCURRY WWTP
 - 2.1.5 SLUDGE/OTHER INPUTS TO TUBBERCURRY WWTP

3 COMPLAINTS AND INCIDENTS

- 3.1 COMPLAINTS SUMMARY
- 3.2 REPORTED INCIDENTS SUMMARY
 - 3.2.1 SUMMARY OF INCIDENTS
 - 3.2.2 SUMMARY OF OVERALL INCIDENTS

4 INFRASTRUCTURAL ASSESSMENT AND PROGRAMME OF IMPROVEMENTS

- 4.1 STORM WATER OVERFLOW IDENTIFICATION AND INSPECTION REPORT
 - 4.1.1 SWO IDENTIFICATION AND INSPECTION SUMMARY REPORT
- 4.2 REPORT ON PROGRESS MADE AND PROPOSALS BEING DEVELOPED TO MEET THE IMPROVEMENT PROGRAMME REQUIREMENTS
 - 4.2.1 SPECIFIED IMPROVEMENT PROGRAMME SUMMARY
 - 4.2.2 IMPROVEMENT PROGRAMME SUMMARY
 - 4.2.3 SEWER INTEGRITY RISK ASSESSMENT

5 LICENCE SPECIFIC REPORTS

- 5.1 PRIORITY SUBSTANCES ASSESSMENT

6 CERTIFICATION AND SIGN OFF

- 6.1 SUMMARY OF AER CONTENTS

7 APPENDIX

- 7.1 AMBIENT MONITORING SUMMARY

1 EXECUTIVE SUMMARY AND INTRODUCTION TO THE 2021 AER

This Annual Environmental Report has been prepared for D0092-01, Tubbercurry, in Sligo 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.

New WwTP constructed & commissioned in 2021

1.2 TREATMENT SUMMARY

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

- Tubbercurry WWTP with a Plant Capacity PE of 3500, 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 |
|---------------------------|------------------|----------------|-------------------|---|
| TPEFF2700D0092SW004 | Tubbercurry WWTP | Treated | Non-Compliant | 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 TUBBERCURRY WWTP - TREATED DISCHARGE

2.1.1 INFLUENT MONITORING SUMMARY - TUBBERCURRY 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 | 10 | 2.77 |
| BOD, 5 days with Inhibition (Carbonaceous BOD) mg/l | 12 | 187 | 73 |
| Suspended Solids mg/l | 12 | 2388 | 155 |
| COD-Cr mg/l | 12 | 2270 | 258 |
| Total Nitrogen mg/l | 12 | 47 | 20 |
| Hydraulic Capacity | N/A | 5360 | 1495 |

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 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 - TPEFF2700D0092SW004

| 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 | 20 | Pass |
| BOD, 5 days with Inhibition (Carbonaceous BOD) mg/l | 25 | 50 | N/A | 12 | N/A | N/A | 3.19 | Pass |
| Suspended Solids mg/l | 25 | 62 | N/A | 12 | N/A | N/A | 5.80 | Pass |
| pH units | 9.00 | 9.00 | N/A | 12 | N/A | N/A | 7.76 | Pass |
| Ammonia-Total (as N) mg/l | 2.00 | 2.40 | N/A | 11 | N/A | N/A | 0.186 | Pass |
| ortho-Phosphate (as P) - unspecified mg/l | 0.650 | 0.780 | N/A | 8 | 4 | N/A | 0.603 | Fail |
| Conductivity @20°C µS/cm | N/A | N/A | N/A | 1 | N/A | N/A | 257 | |
| ortho-Phosphate (as PO4) mg/l | N/A | N/A | N/A | 3 | N/A | N/A | 0.647 | |

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):

Adjustments required to the P-dosing rate

Significance of Results:

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

2.1.3 AMBIENT MONITORING SUMMARY FOR THE TREATMENT PLANT DISCHARGE TPEFF2700D0092SW004

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 |
|---|-------------------------|-----------------------|------------------|-------------------|------|-----------|--------------------------|
| Refer to 7.1 Ambient Monitoring Summary | | | | | | | |

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: 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.

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

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 - TUBBERCURRY WWTP

2.1.4.1 Treatment Efficiency Report - Tubbercurry 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 | 127702 | 7397 | 94 |
| TP | 1371 | N/A | N/A |
| cBOD | 36041 | 1164 | 97 |
| TN | 9672 | N/A | N/A |
| SS | 76828 | 2118 | 97 |

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

2.1.4.2 Treatment Capacity Report Summary - Tubbercurry 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.

| Tubbercurry WWTP | |
|---|------|
| Peak Hydraulic Capacity (m³/day) - As Constructed | 3500 |
| DWF to the Treatment Plant (m³/day) | 338 |

| Tubbercurry WWTP | |
|--|------|
| Current Hydraulic Loading - annual max (m ³ /day) | 5360 |
| Average Hydraulic loading to the Treatment Plant (m ³ /day) | 1495 |
| Organic Capacity (PE) - As Constructed | 3500 |
| Organic Capacity (PE) - Collected Load (peak week) ^{Note¹} | 2437 |
| Organic Capacity (PE) - Remaining | 1063 |
| 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 - TUBBERCURRENCY 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 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 environmental complaints in 2021. | | | |

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) |
|----------------------|--|-----------------------------|-----------------|--------------|
| Breach of ELV | Inadequate Operational Procedures / Training | 1 | No | Yes |
| Breach of ELV | Inadequate Operational Procedures / Training | 1 | Yes | No |

3.2.2 SUMMARY OF OVERALL INCIDENTS

| Question | Answer |
|--|--------|
| Number of Incidents in 2021 | 2 |
| Number of Incidents reported to the EPA via EDEN in 2021 | 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 (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 2021 (No. of events) | Total volume discharged in 2021 (m3) | Monitoring Status |
|--|---------------------------|----------------------------------|---|----------------------------------|--|--------------------------------------|-------------------|
| SW2 | 152150, 311921 | Yes | Medium | Not Meeting | Unknown | 103821 | Monitored |
| SW3 | 151113, 311777 | Yes | Low | Not Meeting | Unknown | Unknown | Not Monitored |
| TBC | 152101, 311952 | Yes | Low | Not Meeting | Unknown | Unknown | Not Monitored |
| TBC | 152101, 311952 | Yes | Unknown | Not Meeting | 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 sewage was discharged via SWOs in the agglomeration in the year (m3)? | 103821 |

| SWO Summary | |
|---|-----|
| Is each SWO identified as not meeting DoEHLG Guidance included in the Programme of Improvements? | Yes |
| 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 |
|---|---|------------------|-------------------------|------------------------|-----------------|-----------------------------------|----------|
| D0092-SIP:01 | Construction of outfall pipe to River Moy and pumping station | C | 30/06/2016 | Yes | Works Completed | 2020 | |
| D0092-SIP:02 | Discharges to be discontinued (SW002) | A | 30/06/2016 | Yes | Works Completed | | |
| D0092-SIP:03 | Waste Water Treatment plant and ancillary works | C | 30/06/2016 | Yes | Works Completed | 2020 | |

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 | Year included in AER | Included in this AER |
|---------------------------------------|---------------------|----------------------|----------------------|
| Priority Substances Assessment | Yes | 2014 | 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 |
| Has a Technical amendment/licence review application been submitted to the Agency by IW? | 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 | N/A |

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

Signed: Date: 03/05/2022

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 Points

| Ambient Monitoring Point from WWDL (or as agreed with EPA) | Irish Grid Reference | EPA Feature Coding Tool code | Receiving Waters Designation (Y/N) | | | | WFD Status |
|--|-------------------------|------------------------------|------------------------------------|----------------|------|-----------|------------|
| | | | Bathing Water | Drinking Water | FWPM | Shellfish | |
| TPEFF2700D0092SW003 | 146660m E, 312330m N | RS34MO20311 | NO | NO | NO | NO | Moderate |
| TPEFF2700D0092SW004 | 146660m N, 312330m N | RS34MO20320 | NO | NO | NO | NO | Good |

Ambient Impact Assessment Table

| Parameter Name | Upstream Monitoring Point Location | Upstream Monitoring Point Annual Mean | Downstream Monitoring Point Location | Downstream Monitoring Point Annual Mean | EQS (95%ile) | %EQS |
|--------------------------------------|------------------------------------|---------------------------------------|--------------------------------------|---|--------------|--------|
| cBOD mg/l | RS34MO20311 | 1.373 | RS34MO20320 | 1.54 | 2.6 | 6.434 |
| Ortho-Phosphate (as P) mg/l | RS34MO20311 | 0.037 | RS34MO20320 | 0.035 | 0.075 | -2.182 |
| Ammonia (as N) mg/l | RS34MO20311 | 0.036 | RS34MO20320 | 0.033 | 0.14 | -1.805 |
| pH pH units | RS34MO20311 | 7.679 | RS34MO20320 | 7.644 | | |
| Dissolved Oxygen %saturation or mg/l | RS34MO20311 | 9.906 | RS34MO20320 | 10.031 | | |
| Temperature Degrees C | RS34MO20311 | 9.273 | RS34MO20320 | 9.527 | | |
| Total Nitrogen (as N) mg/l | RS34MO20311 | 4.779 | RS34MO20320 | 1.877 | | |

Data/Statistics - 2021

| Entity | Entity Code | Station | Station Code | Sample Date | Ammonia N mg/l | BOD, 5 days w mg/l | Dissolved Oxy mg/l | Ortho-Phosph mg/l | pH pH units | Temperature Degrees C | Total Nitrogen mg/l |
|--------|-------------|--------------------------------------|--------------|-------------|-------------------|-----------------------|-----------------------|----------------------|----------------|--------------------------|------------------------|
| Moy | 34M02 | Annagh Bridge - D/S Tubbercurry WwTP | RS34M020320 | 08/01/2021 | 0.037 | 3.5 | 11 | 0.015 | 7.5 | 5.8 | 2.5 |
| Moy | 34M02 | Annagh Bridge - D/S Tubbercurry WwTP | RS34M020320 | 18/02/2021 | 0.044 | 1.6 | 11 | 0.009 | 7.5 | 4.9 | 1 |
| Moy | 34M02 | Annagh Bridge - D/S Tubbercurry WwTP | RS34M020320 | 05/03/2021 | 0.01 | 1 | 11 | 0.007 | 7.8 | 5.6 | 1 |
| Moy | 34M02 | Annagh Bridge - D/S Tubbercurry WwTP | RS34M020320 | 07/05/2021 | 0.01 | 1.1 | 9 | 0.005 | 8 | 8.4 | 1 |
| Moy | 34M02 | Annagh Bridge - D/S Tubbercurry WwTP | RS34M020320 | 18/06/2021 | 0.01 | 1.5 | 11 | 0.021 | 7.7 | 12.7 | 1.3 |
| Moy | 34M02 | Annagh Bridge - D/S Tubbercurry WwTP | RS34M020320 | 23/07/2021 | 0.021 | 1 | 7 | 0.014 | 8 | 17.4 | 1 |
| Moy | 34M02 | Annagh Bridge - D/S Tubbercurry WwTP | RS34M020320 | 15/09/2021 | 0.05 | | 10.87 | 0.119 | 7.58 | 13.1 | 2.897 |
| Moy | 34M02 | Annagh Bridge - D/S Tubbercurry WwTP | RS34M020320 | 21/10/2021 | 0.05 | 2 | 9.4 | 0.05 | 7.4 | 12.1 | 2.319 |
| Moy | 34M02 | Annagh Bridge - D/S Tubbercurry WwTP | RS34M020320 | 29/10/2021 | 0.05 | 1 | 10.1 | 0.05 | 7.8 | 10.8 | 1 |
| Moy | 34M02 | Annagh Bridge - D/S Tubbercurry WwTP | RS34M020320 | 04/11/2021 | 0.05 | 1.7 | 9.94 | 0.05 | 7.4 | 6.9 | 4.902 |
| Moy | 34M02 | Annagh Bridge - D/S Tubbercurry WwTP | RS34M020320 | 14/12/2021 | 0.05 | 1 | 9.94 | 0.05 | 7.4 | 7.1 | 1.73 |
| Moy | 34M02 | Annagh Bridge - U/S Tubbercurry WwTP | RS34M020311 | 08/01/2021 | 0.01 | 2.3 | 10 | 0.01 | 7.8 | 3.8 | 30.8 |
| Moy | 34M02 | Annagh Bridge - U/S Tubbercurry WwTP | RS34M020311 | 18/02/2021 | 0.088 | 1.6 | 10 | 0.016 | 7.5 | 4.9 | 1 |
| Moy | 34M02 | Annagh Bridge - U/S Tubbercurry WwTP | RS34M020311 | 05/03/2021 | 0.01 | 1 | 11 | 0.007 | 7.9 | 5.5 | 1 |
| Moy | 34M02 | Annagh Bridge - U/S Tubbercurry WwTP | RS34M020311 | 07/05/2021 | 0.01 | 1.3 | 9 | 0.006 | 8 | 8.1 | 1 |
| Moy | 34M02 | Annagh Bridge - U/S Tubbercurry WwTP | RS34M020311 | 18/06/2021 | 0.006 | 1.3 | 10 | 0.015 | 7.7 | 12.5 | 1.2 |
| Moy | 34M02 | Annagh Bridge - U/S Tubbercurry WwTP | RS34M020311 | 23/07/2021 | 0.019 | 1 | 7 | 0.011 | 8.2 | 17.1 | 1 |
| Moy | 34M02 | Annagh Bridge - U/S Tubbercurry WwTP | RS34M020311 | 15/09/2021 | 0.05 | 1 | 10.91 | 0.118 | 7.57 | 13.2 | 2.951 |
| Moy | 34M02 | Annagh Bridge - U/S Tubbercurry WwTP | RS34M020311 | 21/10/2021 | 0.05 | 1.9 | 10.8 | 0.05 | 7.4 | 12.8 | 2.079 |
| Moy | 34M02 | Annagh Bridge - U/S Tubbercurry WwTP | RS34M020311 | 29/10/2021 | 0.05 | 1 | 10.6 | 0.05 | 7.8 | 10.9 | 1 |
| Moy | 34M02 | Annagh Bridge - U/S Tubbercurry WwTP | RS34M020311 | 04/11/2021 | 0.05 | 1.7 | 9.81 | 0.075 | 7.3 | 6.4 | 3.937 |
| Moy | 34M02 | Annagh Bridge - U/S Tubbercurry WwTP | RS34M020311 | 14/12/2021 | 0.05 | 1 | 9.85 | 0.05 | 7.3 | 6.8 | 6.6 |

Upstream Avg 0.036 1.373 9.906 0.037 7.679 9.273 4.779

Downstream Avg 0.033 1.540 10.031 0.035 7.644 9.527 1.877

Difference -0.003 0.167 -0.002

EQS 0.140 2.600 0.075

% of EQS -1.805 6.434 -2.182