Annual Environmental Report

2023

Mountcharles

D0522-01

CONTENTS

1 EXECUTIVE SUMMARY AND INTRODUCTION TO THE 2023 AER

This Annual Environmental Report has been prepared for D0522-01, Mountcharles, 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)

- Hall Demense (Mountcharles) WWTP with a Plant Capacity PE of 80, the treatment type is 2 - Secondary treatment .
- Mountcharles WWTP with a Plant Capacity PE of 380, 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
TPEFF0600D0522SW002	Hall Demense (Mountcharles) WWTP	Combined	Non-Compliant	BOD, 5 days with Inhibition (Carbonaceous BOD) mg/l COD-Cr mg/l Suspended Solids mg/l
TPEFF0600D0522SW001	Mountcharles WWTP	Treated	Non-Compliant	BOD, 5 days with Inhibition (Carbonaceous BOD) mg/l COD-Cr 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 HALL DEMENSE (MOUNTCHARLES) WWTP - COMBINED DISCHARGE

2.1.1 INFLUENT MONITORING SUMMARY - HALL DEMENSE (MOUNTCHARLES) 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
There is no Influent data included in the AER.			

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 greater 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 -

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	6	1	1	119	Fail

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)
Suspended Solids mg/l	35	87.5	N/A	6	2	N/A	24	Fail
BOD, 5 days with Inhibition (Carbonaceous BOD) mg/l	25	50	N/A	6	3	1	38	Fail
pH pH units	9	9	N/A	6	N/A	N/A	7.47	Pass
Conductivity @20°C µS/cm	N/A	N/A	N/A	6	N/A	N/A	721	
ortho-Phosphate (as P) - unspecified mg/l	N/A	N/A	N/A	6	N/A	N/A	1.95	
Ammonia-Total (as N) mg/l	N/A	N/A	N/A	6	N/A	N/A	21	

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):

Refer to Incident Section of Report.

Significance of Results:

The WWTP is noncompliant with the ELVs set in the Wastewater Discharge Licence. The impact on receiving Waters is further assessed in Section 2.

2.1.3 EFFLUENT MONITORING SUMMARY - COMBINED - TPEFF0600D0522SW002

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.								

Notes:
1 – This represents the Emission Limit Values after the Interpretation provided for under Condition 2 of the licence is applied
2 – For parameters where a mean ELV applies 3 – For pH the WWDA specifies a range of pH 6-9

Cause of Exceedance(s):

Refer to Incident Section of Report.

Significance of Results:

The WWTP is noncompliant with the ELVs set in the Wastewater Discharge Licence. The impact on receiving Waters is further assessed in Section 2.

2.1.4 AMBIENT MONITORING SUMMARY FOR THE COMBINED DISCHARGE TPEFF0600D0522SW002

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	187012, 376907	RS37H050010	No	No	No	No	Moderate

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
Downstream	187021, 376889	RS37H050030	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 Point Location	Upstream Monitoring Point Annual Mean	Downstream Monitoring Point Location	Downstream Monitoring Point Annual Mean	EQS	% of EQS
BOD - 5 days (Total) mg/l	RS37H050010	1.00	RS37H050030	1.60	1.50	40
Ammonia-Total (as N) mg/l	RS37H050010	0.029	RS37H050030	0.776	0.065	1148.4
ortho-Phosphate (as P) - unspecified mg/l	RS37H050010	0.035	RS37H050030	0.101	0.035	188.9
Suspended Solids mg/l	RS37H050010	4.24	RS37H050030	6.19	N/A	
pH pH units	RS37H050010	8.34	RS37H050030	8.16	N/A	
Dissolved Oxygen % Saturation	RS37H050010	94	RS37H050030	89	N/A	
Temperature °C	RS37H050010	9.98	RS37H050030	10	N/A	
Conductivity @20°C µS/cm	RS37H050010	577	RS37H050030	583	N/A	

Significance of Results:

The WWTP discharge was not 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 BOD mg/l, Ammonia (as N) mg/l, ortho-Phosphate (as P) - unspecified 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 not have an observable negative impact on the Water Framework Directive status.

2.1.5 OPERATIONAL PERFORMANCE SUMMARY - HALL DEMENSE (MOUNTCHARLES) WWTP

2.1.5.1 Treatment Efficiency Report - Hall Demense (Mountcharles) 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)
TN	N/A	N/A	N/A
TP	N/A	N/A	N/A
COD	N/A	792	N/A
SS	N/A	160	N/A
cBOD	N/A	253	N/A

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

2.1.5.2 Treatment Capacity Report Summary - Hall Demense (Mountcharles) 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.

Hall Demense (Mountcharles) WWTP	
Peak Hydraulic Capacity (m^3/day) - As Constructed	0
DWF to the Treatment Plant (m^3/day)	0
Current Hydraulic Loading - annual max (m^3/day)	18.22
Average Hydraulic loading to the Treatment Plant (m^3/day)	18.22
Organic Capacity (PE) - As Constructed	80
Organic Capacity (PE) - Collected Load (peak week)[Note1]	81
Organic Capacity (PE) - Remaining	0
Will the capacity be exceeded in the next three years? (Yes/No)	Yes

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.

2.1.6 SLUDGE / OTHER INPUTS - HALL DEMENSE (MOUNTCHARLES) 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.							

2.2 MOUNTCHARLES WWTP - TREATED DISCHARGE

2.2.1 INFLUENT MONITORING SUMMARY - MOUNTCHARLES 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
Suspended Solids mg/l	6	235	94
pH pH units	6	8.00	7.78
BOD, 5 days with Inhibition (Carbonaceous BOD) mg/l	6	221	84
COD-Cr mg/l	6	331	181
Ammonia-Total (as N) mg/l	6	67	33
ortho-Phosphate (as P) - unspecified mg/l	6	5.87	2.97
Hydraulic Capacity	N/A	112	112

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.

2.2.2 EFFLUENT MONITORING SUMMARY - TPEFF0600D0522SW001

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	6	1	1	82	Fail
Suspended Solids mg/l	35	87.5	N/A	6	1	N/A	23	Pass
BOD, 5 days with Inhibition (Carbonaceous BOD) mg/l	25	50	N/A	6	2	2	37	Fail
pH pH units	9	9	N/A	6	N/A	N/A	7.72	Pass
ortho-Phosphate (as P) - unspecified mg/l	N/A	N/A	N/A	6	N/A	N/A	2.63	
Ammonia-Total (as N) mg/l	N/A	N/A	N/A	6	N/A	N/A	28	
Conductivity @20°C µS/cm	N/A	N/A	N/A	6	N/A	N/A	794	

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):

Refer to Incident Section of Report.

Significance of Results:

The WWTP is noncompliant with ELVs set out the Wastewater Discharge Licence. The impact on receiving waters is further assessed in Section 2.

2.2.3 AMBIENT MONITORING SUMMARY FOR THE TREATMENT PLANT DISCHARGE TPEFF0600D0522SW001

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	187816, 377547	RS37L370150	No	No	No	No	Good
Downstream	187933, 377643	RS37L370460	No	No	No	Yes	Good

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 Point Location	Upstream Monitoring Point Annual Mean	Downstream Monitoring Point Location	Downstream Monitoring Point Annual Mean	EQS	% of EQS
BOD - 5 days (Total) mg/l	RS37L370150	4.14	RS37L370460	6.14	1.50	133.3

Parameter Name	Upstream Monitoring Point Location	Upstream Monitoring Point Annual Mean	Downstream Monitoring Point Location	Downstream Monitoring Point Annual Mean	EQS	% of EQS
Ammonia-Total (as N) mg/l	RS37L370150	1.29	RS37L370460	4.25	0.065	4560.9
ortho-Phosphate (as P) - unspecified mg/l	RS37L370150	0.162	RS37L370460	0.473	0.035	890.3
Temperature °C	RS37L370150	10	RS37L370460	10	N/A	
pH pH units	RS37L370150	7.97	RS37L370460	7.96	N/A	
Conductivity @20°C µS/cm	RS37L370150	601	RS37L370460	620	N/A	
Dissolved Oxygen % Saturation	RS37L370150	90	RS37L370460	84	N/A	
Suspended Solids mg/l	RS37L370150	4.49	RS37L370460	6.71	N/A	

Significance of Results:

The WWTP discharge was not 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.

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.

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

2.2.4 OPERATIONAL PERFORMANCE SUMMARY - MOUNTCHARLES WWTP

2.2.4.1 Treatment Efficiency Report - Mountcharles 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	7409	3333	55
SS	3860	924	76
TN	N/A	N/A	N/A
cBOD	3442	1506	56
TP	N/A	N/A	N/A

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

2.2.4.2 Treatment Capacity Report Summary - Mountcharles 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.

Mountcharles WWTP	
Peak Hydraulic Capacity (m^3/day) - As Constructed	257
DWF to the Treatment Plant (m^3/day)	86
Current Hydraulic Loading - annual max (m^3/day)	112.05

Mountcharles WWTP	
Average Hydraulic loading to the Treatment Plant (m^3/day)	112.05
Organic Capacity (PE) - As Constructed	380
Organic Capacity (PE) - Collected Load (peak week)[Note1]	498
Organic Capacity (PE) - Remaining	0
Will the capacity be exceeded in the next three years? (Yes/No)	Yes

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.

2.2.5 SLUDGE / OTHER INPUTS - MOUNTCHARLES 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 2023.			

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)
Breach of ELV	WWTP operating above capacity	Yes	No

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
SW003	187827,377556	Yes	Low Significance	Meeting Criteria	Unknown	Unknown	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?	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
D0522-SIP:01	SW001 Primary Discharge Point to be discontinued	C	22/12/2015	Yes	At Planning Stage	2026	
D0522-SIP:02	SW002 Secondary Discharge Point to be Discontinued	C	22/12/2015	Yes	At Planning Stage	2026	
D0522-SIP:03	Transfer of Waste Water to donegal Town and Environs agglomeration, Reg. No. D0135-01, for treatment and discharge. (Primary discharge)	C	22/12/2015	Yes	At Planning Stage	2026	
D0522-SIP:04	Transfer of Waste Water to donegal Town and Environs agglomeration, Reg. No. D0135-01, for treatment and discharge. (Secondary discharge)	C	22/12/2015	Yes	At Planning Stage	2026	

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
D0522-01-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?	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: 24/10/2024

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

Mountcharles AMBIENT MONITORING SUMMARY 2023

Mountcharles WWTP

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**	
Upstream Monitoring Point	187012, 376907	RS37H050010	No	No	No	No	Moderate
Downstream Monitoring Point	187021, 376889	RS37H050030	No	No	No	No	Moderate

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 (Mean)**	**% EQS**
BOD mg/l	RS37H050010	1.2	RS37H050030	4.2	1.5	200%
Ammonia (as N) mg/l	RS37H050010	1.28	RS37H050030	4.25	0.065	4569.2%
ortho-Phosphate (as P) - unspecified mg/l	RS37H050010	0.165	RS37H050030	0.473	0.035	879.9%

Housing Scheme (Mountcharles)

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**	
Upstream Monitoring Point	187816, 377547	RS37L370150	No	No	No	No	Good
Downstream Monitoring Point	187933, 377643	RS37L370460	No	No	No	Yes	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 (Mean)**	**% EQS**
BOD mg/l	RS37L370150	0.03	RS37L370460	0.77	1.5	49.33%
Ammonia (as N) mg/l	RS37L370150	0.0338	RS37L370460	0.775	0.065	1140.3%
ortho-Phosphate (as P) - unspecified mg/l	RS37L370150	0.050	RS37L370460	0.104	0.035	154.28%

Mountcharles D0522-01

Station	Date	Ammonia (as N)	BOD	Conductivity @ 20°C	DO	Orthophosphate	pH	Suspended Solids	Temperature
Mountcharles No. 2 - Upstream(Housing Scheme)	02-Feb-23	0.061	1	380	99.6	<0.05	8	<6	7.8
Mountcharles No. 2 - Upstream(Housing Scheme)	27-Jun-23	0.028	1	478	90.2	<0.05	8.3	<6	14.7
Mountcharles No. 2 - Upstream(Housing Scheme)	03-Aug-23	<0.015	1	396	94.6	<0.05	8.4	<6	13
Mountcharles No. 2 - Upstream(Housing Scheme)	17-Oct-23	<0.015	1	479	93.7	<0.05	8.6	<6	7.2
Mountcharles No. 2 - Upstream(Housing Scheme)	14-Dec-23	<0.05	1	1153	91.8	<0.05	8.4	<6	7.2
Mountcharles - Upstream	02-Feb-23	0.214	2	521	96.7	0.088	7.8	<6	7.8
Mountcharles - Upstream	27-Apr-23	5.19	8	593	77.2	0.357	8	6	10.4
Mountcharles - Upstream	27-Apr-23	0.017	1	428	97	<0.05	7.6	<6	9.8
Mountcharles - Upstream	27-Jun-23	1.81	6	533	91.7	0.342	7.8	<6	14.8
Mountcharles - Upstream	03-Aug-23	0.356	3	429	92.6	0.099	8.1	<6	12.9
Mountcharles - Upstream	17-Oct-23	1.19	8	529	88.4	0.174	8.3	<6	7.2
Mountcharles - Upstream	14-Dec-23	0.25	1	1174	87.9	<0.05	8.2	<6	7.2
Mountcharles - Downstream	02-Feb-23	1.54	7	541	95.4	0.338	7.7	<6	7.9
Mountcharles - Downstream	27-Apr-23	9.69	10	636	69.8	0.834	7.9	13	10.1
Mountcharles - Downstream	27-Apr-23	1.42	4	447	93.6	0.254	7.5	11	9.7
Mountcharles - Downstream	27-Jun-23	10.1	8	593	81.9	1.06	7.9	6	14.9
Mountcharles - Downstream	03-Aug-23	2.81	6	465	84.8	0.362	8.2	<6	13.2
Mountcharles - Downstream	17-Oct-23	3.68	6	525	79.6	0.409	8.1	<6	7.2
Mountcharles - Downstream	14-Dec-23	0.539	2	1132	85.3	0.055	8.4	<6	7.2
Mountcharles No. 2 - Downstream(Housing Scheme)	02-Feb-23	0.323	1	392	97.9	0.055	7.9	<6	7.9
Mountcharles No. 2 - Downstream(Housing Scheme)	27-Jun-23	1.33	2	477	81.6	0.192	8.2	<6	14.8
Mountcharles No. 2 - Downstream(Housing Scheme)	03-Aug-23	0.235	1	397	88.7	0.033	8.4	<6	13.1
Mountcharles No. 2 - Downstream(Housing Scheme)	17-Oct-23	1.66	3	505	87.6	0.192	8.3	14	7.3
Mountcharles No. 2 - Downstream(Housing Scheme)	14-Dec-23	0.33	1	1143	88.6	<0.05	8	<6	7.3