Annual Environmental Report

2021



Summerhill

D0259-01

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1 EXECUTIVE SUMMARY AND INTRODUCTION TO THE 2021 AER

This Annual Environmental Report has been prepared for D0259-01, Summerhill, in Meath 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 capital works, significant changes or operational improvements undertaken in 2021.

1.2 TREATMENT SUMMARY

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

• SUMMERHILL WWTP with a Plant Capacity PE of 3000, 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
TPEFF2300D0259SW001	SUMMERHILL WWTP	Treated	Compliant	N/A

1.4 LICENCE SPECIFIC REPORTING

Assessment / Report

Small Stream Risk Score Assessment

2 TREATMENT PLANT PERFORMANCE AND IMPACT SUMMARY

2.1 SUMMERHILL WWTP - TREATED DISCHARGE

2.1.1 INFLUENT MONITORING SUMMARY - SUMMERHILL 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	68	31
BOD, 5 days with Inhibition (Carbonaceous BOD) mg/l	12	1732	445
COD-Cr mg/l	12	2994	767.02
Suspended Solids mg/l	12	2770	771.68
Total Nitrogen mg/l	12	226	69
Total Phosphorus (as P) mg/l	12	26	11
ortho-Phosphate (as P) - unspecified mg/I	12	15	6.10
Hydraulic Capacity	N/A	1361	324

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 - TPEFF2300D0259SW001

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	25	Pass
Suspended Solids mg/l	35	87.5	N/A	12	N/A	N/A	8.50	Pass
pH pH units	6.00	9.00	N/A	12	N/A	N/A	7.92	Pass
BOD, 5 days with Inhibition (Carbonaceous BOD) mg/l	5.00	10	N/A	12	2	N/A	3.60	Pass
Ammonia-Total (as N) mg/l	1.00	2.00	N/A	12	1	N/A	0.315	Pass
ortho-Phosphate (as P) - unspecified mg/l	0.500	0.600	N/A	12	N/A	N/A	0.082	Pass
Total Phosphorus (as P) mg/l	N/A	N/A	N/A	12	N/A	N/A	0.610	

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)
Conductivity @25°C µS/cm	N/A	N/A	N/A	2	N/A	N/A	1406	
Total Nitrogen mg/l	N/A	N/A	N/A	11	N/A	N/A	5.88	

Notes

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 TPEFF2300D0259SW001

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.

^{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

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	285788, 248965	RS07K020200	No	No	No	No	Poor
Downstream	283268, 250875	RS07K020300	No	No	No	No	Poor

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	RS07K020200	0.956	RS07K020300	1.54	1.50	39.2
Ammonia-Total (as N) mg/l	RS07K020200	0.071	RS07K020300	0.082	0.065	17.2
ortho-Phosphate (as P) - unspecified mg/l	RS07K020200	0.094	RS07K020300	0.094	0.035	-0.4
Dissolved Oxygen % Saturation	RS07K020200	89	RS07K020300	86	N/A	
pH pH units	RS07K020200	8.17	RS07K020300	8.12	N/A	
Dissolved Oxygen mg/l	RS07K020200	9.60	RS07K020300	9.67	N/A	
Total Nitrogen mg/l	RS07K020200	3.18	RS07K020300	2.88	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 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 Ammonia & BOD 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.

As per the 3rd Cycle Draft Boyne Catchment Report (HA 07), the significant pressure on the Knightsbrook_020 waterbody is Agriculture.

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 - SUMMERHILL WWTP

2.1.4.1 Treatment Efficiency Report - SUMMERHILL 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	88981	2850	97
ТР	1273	71	94
cBOD	51592	417	99
ss	89522	982	99
TN	8007	693	91

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

2.1.4.2 Treatment Capacity Report Summary - SUMMERHILL 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.

SUMMERHILL WWTP	
Peak Hydraulic Capacity (m³/day) - As Constructed	2025
DWF to the Treatment Plant (m³/day)	675
Current Hydraulic Loading - annual max (m³/day)	1361
Average Hydraulic loading to the Treatment Plant (m³/day)	324
Organic Capacity (PE) - As Constructed	3000
Organic Capacity (PE) - Collected Load (peak week)Note1	1058
Organic Capacity (PE) - Remaining	1942
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 - SUMMERHILL 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	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)				
There were no reportable incidents in 2021.								

3.2.2 SUMMARY OF OVERALL INCIDENTS

Question	Answer
Number of Incidents in 2021	0
Number of Incidents reported to the EPA via EDEN in 2021	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 2021 (No. of events)	Total volume discharged in 2021 (m³)	Monitoring Status
SW2	284910, 249401	Yes	Low	Meeting	0	0	Monitored

SWO Summary	
How much sewage was discharged via monitored SWOs in the agglomeration in the year (m³)?	0
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 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
D0259-SIP:01	Assessment of the options to reduce the impact of the primary discharge on the Cloneymeath River in accordance with Condition 5.2(d)	С	28/02/2013	Yes	Not Started		Capital works not funded in RC3. Capital works funding post 2024 will be contingent on the project being included in the 2025-2029 investment period.

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
Small Stream Risk Score Assessment	Yes	2017	Yes

5.1 PRIORITY SUBSTANCES ASSESSMENT

The Priority Substances Assessment Report has been included in the AER 2014.

5.2 SMALL STREAM RISK SCORE ASSESSMENT

The Small Stream Risk Score Assessment Report is included in Appendix 7.2 - Small Stream Risk Score Assessment. A summary of the findings of this report is included below.

Parameter Parame	Value
Condition 5 Improvement Programme Reference	
Does SSRS indicate discharges are posing a pollution risk?	
Downstream SSRS Water Quality Risk	At Risk

Parameter Parame	Value
SSRS Required?	Yes
Upstream SSRS Water Quality Risk	At Risk
What is Downstream SSRS?	4
What is Upstream SSRS?	2.4
Does improvement programme include any procedural and/or infrastructural works?	N/A

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	Yes
List reason e.g., changes to monitoring requirements	Ambient Monitoring Location Changes
Have these processes commenced?	No
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:

Date: 22/04/2022

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 - Small Stream Risk Score Assessment





Summerhill, Co. Meath: Small-Streams Risk Score (SSRS)

Report prepared for:

Meath County Council, Buvinda House, Dublin Road Navan, Co. Meath

October 2021



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DOCUMENT CONTROL SHEET

Client	Meath County Council	
Project title	Summerhill SSRS	
Project number	PRJ320	
Document title	Summerhill Small-Streams Risk Score (SSRS)	
Citation	Brophy, J.T. (2021) Summerhill Small-Streams Risk Score (SSRS). Unpublished Report by BEC Consultants Ltd.	

Author	Reviewed by	Approved by	Version	Issue date
John Brophy B.A., M.Sc., MCIEEM, CEcol.	Simon Barron M.Sc. MCIEEM, CEnv.	Jim Martin B.Sc., Ph.D., MCIEEM	V1.0	7/10/2021

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1 Background

BEC Consultants Ltd was contracted to carry out macroinvertebrate sampling on the Cloneymeath River and calculate a Small-Streams Risk Score (SSRS) for two samples taken upstream and downstream of Summerhill Waste Water Works, Summerhill, Co. Meath.

2 Methods

Two samples were taken on the Cloneymeath River, one upstream (u/s) and one downstream (d/s) of the Summerhill Waste Water Works discharge location by John Brophy of BEC Consultants, who is an EPA-registered SSRS assessor, on 7 October 2021 following the SSRS field methodology (Anon. 2009). The samples were taken using a standard hand-net and the SSRS calculated following the methods set out in the 'Small Streams Risk Score (SSRS) Training Manual' (Anon., 2009).

3 Results

The SSRS groups and taxa recorded from the upstream (u/s) and downstream (d/s) sample stations, with their relative abundances, are presented in Table 1 and Table 2, respectively. No Group 1 or Group 2 taxa were recorded at either sample station.

Table 1. SSRS groups and taxa from the upstream (u/s) sample station on the Cloneymeath River, Summerhill, Co. Meath taken on 7 October 2021.

Group	Taxon	Relative abundance (1-5)
Group 1 Ephemeroptera	-	-
Group 2 Plecoptera	-	-
Group 3 Trichoptera	Limnephilidae	1
	Sericostomatidae	1
Group 4 G.O.L.D.	Tubificidae	2
	Chironomidae	1
	Chironomus	1
Group 5 Asellus	Asellus	Common/Numerous

Table 2. SSRS groups and taxa from the downstream (d/s) sample station on the Cloneymeath River, Summerhill, Co. Meath on 7 October 2021.

Group	Taxon	Relative abundance (1-5)
Group 1 Ephemeroptera	-	-
Group 2 Plecoptera	-	-
Group 3 Trichoptera	Hydropsychidae	1
	Limnephilidae	1
	Sericostomatidae	1
Group 4 G.O.L.D.	Tubificidae	1
	Physa	1
	Simuliidae	1
	Tipulidae	2
Group 5 Asellus	Asellus	Few/Low

The SSRS for each sample station was calculated following the methods of Anon. (2009) and the results are presented in Table 3.

Table 3. The Small-Streams Risk Score for two sample stations on the Cloneymeath River, Summerhill, Co. Meath on 7 October 2021.

Sample station	SSRS	Category
Upstream (u/s)	2.4	At risk
Downstream (d/s)	4	At risk

The SSRS scoresheets for sites u/s and d/s are presented in Appendix I, with photographs presented in Appendix II.

4 Conclusion

The SSRS for the upstream station (U/S) was 2.4, while that for the downstream station (D/S) was 4. Therefore, despite the difference in the scores, the Cloneymeath River, at both upstream and downstream locations, is 'At risk' of not meeting 'Good' status under the Water Framework Directive (2000/60/EC).

5 References

Anonymous (2009). Small Streams Risk Score (SSRS) Training Manual: A Pollution Investigation Tool for Use in the Field. Prepared on behalf of the Department of the Environment, Heritage and Local Government, Environmental Protection Agency and Water Services National Training Group (wsntg). (February 2020).

Appendix I – Score sheets

Fast Silon Moderate Moderate Substratum: Storey bottom-Muddy bottom-Mud over stones Very slow Clarity Discharge Very dear Flood Clear Normal Slightly turbid Low Filamentous Algae: (None) Present Moderate - Abundant Highly turbid Very Low Dry (Pasture) Present - Moderate - Abundant Highly turbid Very Low Dry (Pasture) Recent Flood Present Moderate - Abundant Filamentous Algae: (None) Present - Moderate - Abundant Winne) Present - Moderate - Abundant None) Present - Mode	Stream Order: 2 Stream Flow: Riffe	Stream Order: Field Chemistry Modifications: 1/N Canalised-widened-bank erosion-fiered drainable of the property of the	Stream Order: Field Chemistry Modifications: 1/N Canalised-widened-bank erosion- efforal drainable DO mg/l (-1 17	Field Chemistry DOW Field Chemistry Modifications: Y/N Canalised-widened-bank erosion- effend drainage Bong	Field Chemistry DOW Per Caralled Process DO mg/l (-1 13 - O Boulder (-128mm) Conductivity	Steam Order Field Chemistry Modifications: Y/N Canalised-widened-bank erosion-efferal drainable Temp (**C) 1/3 · O Doing/l C 1 Steam flow: Riffle
Field Chemistry DO% 78 DO mg/l 6.1 Domg/l 7.9 Bank width (cm) 4.7 Bank width (cm) 4.7 Sand (0.25-2mm) Stope (Low)- Medium - High - Very High Geology: Calcareous-Giliceous-Mixed Velocity Colour Torrential None Substratum Condition: Calcareous-Compacted-Cosps Normal Substratum: Stoney bottom-Muddy bottom-Rud over stones Degree of siltation: Clean-Slight-Moderate Habundant Silghtly turbid Low Depth of mud: None: (1cm) 1-5-cm: 5-10-cm: >10-cm Litter: None - Present - Moderate - Abundant Highly turbid Very Low Depth of mud: None: (1cm) 1-5-cm: 5-10-cm: >10-cm Highly turbid Very Low Depth of mud: None: (1cm) 1-5-cm: 5-10-cm: >10-cm Litter: None - Present - Moderate - Abundant Highly turbid Very Low Depth of mud: None: (1cm) 1-5-cm: 5-10-cm: >10-cm Litter: None - Present - Moderate - Abundant Highly turbid Very Low Depth of mud: None: (1cm) 1-5-cm: 5-10-cm: >10-cm Litter: None - Present - Moderate - Abundant Bill and use u/s: Present - Moderate - Abundant Recent Flood Dry Tillage Forestry Other The macroinvertebrates are divided into the following 5 specific groups: Group 1 = Ephemeroptera (3-tails) - note that tails may be damaged during sampling Group 2 = Plecoptera (2-tails) - note that tails may be damaged during sampling Group 3 = Trichoptera	Field Chemistry DO% 78 DO mg/l Temp (*C) 13 · O Conductivity 75 L/C PH Fine Gravel (2-8mm) Wet width (cm) 1-7-2 Avg Depth (cm) 1 · Staff gauge Velocity Velocity Very Sow Clarity Clarity Very Sow Clarity Very dear	Field Chemistry Modifications: V/N Canalised-widened-bank erosion- efferal drainage form of Children drainage form of Children form of	Field Chemistry Modifications: V/N Canalised-widened-bank erosion- efferal drainage form of the property of	Modifications: Y/N Canalised-widened-bank erosion of the Riffle Clide (Sow flow) Program of the Riffle Clide (Sow f	Modifications: Y/N Canalised-widened-bank erosion- Field Chemistry	DOF Field Chemistry DOF Bornary DOF Field Chemistry DO mg/I Color Temp (*C) 13. O Boulder (2.128mm) Conductively FS_1_L_G Cobble (3.128mm) Fine Gravel (2.9mm) Fine Gravel (3.9mm) Fine Gravel
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pH Bank width (cm) Wet width (cm) Wet width (cm) Sand (0.25-2-mm) Sit (so.25-mm) Shading: High - Moderate - Low - None Cattle access Y: upstream - downstream of some states of some state	pH Bank width (cm) Wet width (cm) Wet width (cm) Wet width (cm) Staff gauge Welocity Colour Torrential None Fast Signft Moderate Moderate Substratum Condition: Calcareous-Compacted- (loose) Normal Storey Obtom-Muddy bottom-fuld over stones Wery slow Clarity Very slow Clarity Very slow Clarity Very dear Welocity Very slow Clarity Very tow Main land use u/s: None Present - Moderate - Abundant Highly turbid Wery Low Recent Flood Recent Flo	PH 3-3-7 Sank width (cm)	PH develop the content of the conte	## Arrow (% 32mm) Fine face (2-8mm)	## Arrangle Composition The macroinvertebrates are divided into the following 5 specific group 5 and specific gro	PH 1
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Staff gauge	Stope (Low) Medium - High - Very High	Staff gauge Stope (Cow) Nedium - High - Very High Sealogy: (Calcarcous)-Billicous-Mixed Shading: High - Moderate Low - None Substitution: Some Substitution: Stope Substitution: Sto	Staff gage Stope (Cow)	Starf gauge	Staff gauge	Staff gauge
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Stoney bottom-Muddy bottom-Mu	Stoney bottom-Muddy bottom-Mud over stones Very slow Clarity Discharge Very dear Flood Clear Normal Litter: None Present Moderate - Abundant Highly turbid Wery Low Recent Flood Dry Recent Flood General Comments: Macroinvertebrate Composition The macroinvertebrates are divided into the following 5 specific groups: Group 1 = Ephemeroptera (3-tails) - note that tails may be damaged during sampling Group 5 = Asellus Group 5 = Asellus Galculate the total number of taxa and relative abundance of each macroinvertebrate group below: (Abundance – Abundance – Abunda	Store High Store bottom-Muddy bottom	Stoney High Stoney bottom-Muddy bottom	Store Stor	Store Stor	Store High Store bottom-Muddy bottom
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Clarity Discharge Flood Clear Normal Litter: None - Present Moderate - Abundant Sewage Fungus: None Present - Moderate - Abundant None: Present - Moderate - Abundant None None Present - Moderate - Abundant None N	Clarity Discharge Flood Clear Flood	Depth of mud: None: Clarity Discharge Depth of mud: None: Clarity Depth of mud: None: Dept	Clarity Very dear Flood Clear Normal Litter: None Present Moderate - Abundant Slightly turbid Very Low Main Indiana State Present Moderate - Abundant Highly turbid Very Low Present Moderate - Abundant Pory Present Moderate - Abundant Main Indiana use u/s: Prof. Recent Flood Present Moderate - Abundant Macroinvertebrate - Abundant Sample retained: Prof. Recent Flood Present Moderate - Abundant Sample retained: Prof. Present Moderate - Abundant Sample retained: Y (1) Sample retain	Clarity Discharge Very dear Flood Flood Clarity Very Low Clarity Moderate - Abundant Slightly turbid Litter: None - Present - Moderate - Abundant Slightly turbid Very Low Main Marcoinvertebrate Moderate - Abundant Moderate - Abund	Clarity Discharge Very dear Flood Flood Clarity Very Low Clarity Macroinvertebrate Composition Clarity	Clarity Discharge Very dear Flood Clear Normal Clarity Dear Flood Clear Normal Clarity Cla
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Slightly turbid Highly turbid Very Low Dry Recent Flood Recent Good Recent Good The macroinvertebrates are divided into the following 5 specific groups: Group 1 = Ephemeroptera (3-tails) - note that tails may be damaged during sampling Group 3 = Trichoptera Filamentous Algae: (None) Present - Moderate - Abundant Sample retained: V (N) Sample retained: V (N) Somple retained: V (N) Weed sweep x N A Relative Abundance Abundance Abundance Abundance Sample retained: V (N) Weed sweep x N A Relative Abundance 1-5 6-20 21-50	Slightly turbid Slightly turbid Cow Fresent - Moderate - Abundant Sample Fresent - Moderate - Abundant Fresent - M	Slightly turbid Highly turbid Low Filiamentous Algae: None Present - Moderate - Abundant Sample Mone Present - Abundant Mone Mone Present - Abundant Mone Present - Abundant Mone	Slightly turbid Highly turbid Low Filiamentous Algae: None Present - Moderate - Abundant Sample Present - Abundant Sample Present - Abundant Produce Present - Abundant Present Present Present - Abundant Present	Slightly turbid Highly turbid Very Low Present - Moderate - Abundant Sample Present - Moderate - Abundant Sample Mone Mone Mone Mone Moderate Abundant Mone Mone Mone Mone Moderate Abundant Mone Mone Mone Mone Moderate Abundant Mone Mone	Slightly turbid Highly turbid Very Low Pilamentous Algae: (None) Present - Moderate - Abundant Sample Macroinvertebrate Sample Sample Sample Macroinvertebrate Sample Sample Sample Macroinvertebrate Sample Sample Macroinvertebrate Sample Sample Sample Macroinvertebrate Sample Sample Sample Macroinvertebrate Sample	Slightly turbid Highly turbid Very Low Big Inand use u/s: Recent Flood Recent Flo
Highly turbid Very Low Main land use u/s: Present - Moderate - Abundant Wone - Present - Moderate - Abundant Wone - Present - Moderate - Abundant Wone - Present - Moderate - Abundant Wain land use u/s: Prosent - Moderate - Abundant Sample retained: Y N Stone wash x \ Weed sweep x N A General Comments: Weed sweep x N A Relative Abundance Abundant Sample retained: Y N Stone wash x \ Weed sweep x N A Relative Abundance Abundant Sample retained: Y N Stone wash x \ Weed sweep x N A Relative Abundance 1-5 Group 1 = Ephemeroptera (3-tails) - note that tails may be damaged during sampling Group 2 = Plecoptera (2-tails) - note that tails may be damaged during sampling Group 3 = Trichoptera Abundance 1-5 6-20 21-50	Highly turbid Very Low Main land use u/s: Sample retained: Y N Sample in Minutes: Pond net x 2. Recent Flood Present - Moderate - Abundant Sample retained: Y N Weed sweep x N A General Comments: Macroinvertebrate Composition The macroinvertebrates are divided into the following 5 specific groups: Group 1 = Ephemeroptera (3-tails) - note that tails may be damaged during sampling Group 2 = Plecoptera (2-tails) - note that tails may be damaged during sampling Group 3 = Trichoptera Group 4 = G.OL.D (Gastropoda, Oligochaeta and Diptera) Group 5 = Asellus Group 5 = Asellus Calculate the total number of taxa and relative abundance of each macroinvertebrate group below: (Abundance – Ab) Ephemeroptera: Ecdyonurus Ab Plecoptera: Leuctra Ab	Highly turbid Very Low Dry Present Moderate - Abundant Very Low Ve	Highly turbid Very tow Dry Present Moderate - Abundant Marcial value u/s: Sample Present Moderate - Abundant Very turbid Dry Present Moderate - Abundant Very turbid Dry Present Moderate - Abundant Very turbid Very turbid Very turbid Dry Present Moderate - Abundant Very turbid	Mighly turbid Very Low Dry Recent Hood Professor Macroinvertebrate Professor	Mighly turbid Very Low Dry Recent Hood Professor Macroinvertebrate Professor	Mighly turbid Very Low Dry Recent Flood Prosent Macroinvertebrate Dry Basture Dry Basture Dry Basture Dry Basture Basture Dry Basture Bastur
Highly turbid Very Low Dry. Recent Flood Porestry Recent Group 1 = Ephemeroptera (3-tails) - note that tails may be damaged during sampling Group 3 = Trichoptera Relative Abundance Sample retained: Pond net x 2. Stone wash x \ Weed sweep x N A Relative Abundance 1-5 6-20 21-50	Highly turbid Very Low Dry Pasture Orban Tillage Porestry Other Ot	Highly turbid Very Low Dry Recent Flood Dry Recent Flood Bog Forestry Bog Other Pretained: Pretained: Product Recent Flood Bog Other Prestry Product Recent Flood Bog Other Prestry Product Recent Flood Bog Other Forestry Product Recent Flood Bog Other Forestry Product Recent Flood Bog Other Flood Bog Other Flood Recent Flood Bog Other Flood Bog Other Flood Recent Flood Bog Other F	Highly turbid	Sample Sample Sample Sample Pond net x 2	Sample retained: Sample retained: Sample retained: Sample retained: Some wash x Stone wash x Weed sweep x N A Weed sweep x N A	Highly turbid Very Low Pasture Posture Posture Porestry Urban Bog Forestry Urban Bog Other Pretained: Y (B) Sample retained: Y (B) Sample state of the
Pond net x Pon	Dry Recent Flood Forestry Pond net x 2 Stone wash x Weed sweep x N A	Pond net x 2 Stone wash x Weed sweep x N A	Recent Flood Re	Recent Flood Relative Abundance Relative Abun	Recent Flood Recen	Recent Flood Recen
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The macroinvertebrates are divided into the following 5 specific groups: Group 1 = Ephemeroptera (3-tails) - note that tails may be damaged during sampling Group 2 = Plecoptera (2-tails) - note that tails may be damaged during sampling Group 3 = Trichoptera Group 3 = Trichoptera Group 4 = Plecoptera (2-tails) - note that tails may be damaged during sampling G-20 Group 3 = Trichoptera	Macroinvertebrate Composition The macroinvertebrates are divided into the following 5 specific groups: Group 1 = Ephemeroptera (3-tails) - note that tails may be damaged during sampling Group 2 = Plecoptera (2-tails) - note that tails may be damaged during sampling Group 3 = Trichoptera Group 4 = G.OL.D (Gastropoda, Oligochaeta and Diptera) Group 5 = Aseflus Calculate the total number of taxa and relative abundance of each macroinvertebrate group below: (Abundance – Ab) Ephemeroptera: Ecdyonurus Ab Plecoptera: Leuctra Ab	The macroinvertebrates are divided into the following 5 specific groups: Group 1 = Ephemeroptera (3-tails) - note that tails may be damaged during sampling Group 2 = Plecoptera (2-tails) - note that tails may be damaged during sampling Group 3 = Trichoptera Group 4 = G.O.L.D (Gastropoda, Oligochaeta and Diptera) Group 5 = Aselfus Calculate the total number of taxa and relative abundance of each macroinvertebrate group below: (Abundance - Ab) Ephemeroptera: Ecclyonurus Ab Heptagenia Ab Heptagenia Ab Heptagenia Ab Caenis Ab Paraleptophiebia Ab Ephemerelia Ab Other Ephema Ab Other Ephema Ab Total no. of taxa Trichoptera: Hydropsychidae Ab Polyceptropodidae Ab Rhyacophila Ab Polyceptropodidae Ab Polyceptropodidae Ab Polyceptropodidae Ab Polyceptropodidae Ab Piliopotamidae Ab Limnephilidae Ab Limnephilidae Ab Limnephilidae Ab Limnephilidae Ab Ceratopogonidae (D) Ab Tubificidae (Ol) Ab Ceratopogonidae (D) Ab Tubificidae (Ol) Ab Tubificidae (Ol) Ab Tubificidae (Ol) Ab Ceratopogonidae (D) Ab Tubificidae (Ol) Ab Tubificidae (Ol) Ab Cerecorded as absent if none	The macroinvertebrates are divided into the following 5 specific groups: Group 1 = Ephemeroptera (3-tails) - note that tails may be damaged during sampling Group 2 = Plecoptera (3-tails) - note that tails may be damaged during sampling Group 3 = Trichoptera Group 4 = G.O.L.D (Gastropoda, Oligochaeta and Diptera) Group 5 = Aselfus Calculate the total number of taxa and relative abundance of each macroinvertebrate group below: (Abundance - Ab) Ephemeroptera: Ecclyonurus Ab Heptagenia Ab Heptagenia Ab Heptagenia Ab Caenis Ab Paraleptophiebia Ab Ephemeredia at Caenis Ab Other Ephema Ab Total no. of taxa Trichoptera: Hydropsychidae Ab Polyceptropodicide Ab Rhyacophila Ab Polyceptropodicide Ab Polyceptropodicide Ab Polyceptropodicide Ab Polyceptropodicide Ab Polyceptropodicide Ab Piliopotamidae Ab Limnephilidae (Ol) Ab Tubilicidae (Ol) Ab Tub	The macroinvertebrates are divided into the following 5 specific groups: Group 1 = Ephemeroptera (3-tails) - note that tails may be damaged during sampling Group 2 = Plecoptera (2-tails) - note that tails may be damaged during sampling Group 3 = Trichoptera Group 4 = G.O.L.D. (Gastropoda, Oligochaeta and Diptera) Group 5 = Aseilus Calculate the total number of taxa and relative abundance of each macroinvertebrate group below: (Abundance – Ab) Ephemeroptera: Ecdyonurus Ab Rhithrogena Ab Heptagenia Ab Heptagenia Ab Caenis Ab Paraleptophiebia Ab Ephemeral danica Ab Other Ephem Ab Total no. of taxa Total no. of taxa Total no. of taxa Trichoptera: Hydropsychidae Ab Polyceptropodidae Ab Polyceptropodidae Ab Philopotamidae Ab Limnephilidae Ab Philopotamidae Ab Limnephilidae Ab Limpificidae (Ol) Ab Limpi	The macroinvertebrates are divided into the following 5 specific groups: Group 1 = Ephemeroptera (3-tails) – note that tails may be damaged during sampling Group 2 = Plecoptera (2-tails) – note that tails may be damaged during sampling Group 3 = Trichoptera Group 3 = Trichoptera Group 3 = Trichoptera Group 5 = Asellus Calculate the total number of taxa and relative abundance of each macroinvertebrate group below: (Abundance – Ab) Ephemeroptera: Ecclyonurus Ab Heptagenia Ab Heptagenia Ab Heptagenia Ab Caenis Ab Paraleptophiebia Ab Ephemera danica Ab Other Ephema Ab Total no. of taxa Trichoptera: Hydropsychidae Ab Polycoptropodidae Ab Polycoptropodidae Ab Polycoptropodidae Ab Polycoptropodidae Ab Polycoptropodidae Ab Pilipoptamidae Ab Limnephilidae Ab Limnephilidae Ab Limnephilidae Ab Limnephilidae Ab Limnephilidae Ab Limnephilidae (Oi) Ab Tubilificidae (Oi) Ab Tubilificidae (Oi) Ab Carectopagonidae (Oi) Ab Carectopagonidae (Oi) Ab Tubilificidae (Oi) Ab Tubilificidae (Oi) Ab Carectopagonidae (Oi) Ab Carectop	The macroinvertebrates are divided into the following 5 specific groups: Group 1 = Ephemeroptera (2-tails) - note that tails may be damaged during sampling Group 2 = Plecoptera (2-tails) - note that tails may be damaged during sampling Group 3 = Trichoptera Group 3 = Trichoptera Group 4 = G.O.L.D (Gastropoda, Oligochaeta and Diptera) Group 5 = Aselfus Calculate the total number of taxa and relative abundance of each macroinvertebrate group below: (Abundance – Ab) Ephemeroptera: Ecclyonurus Ab Heptagenia Ab Heptagenia Ab Heptagenia Ab Caenis Ab Paraleptophiebia Ab Ephemera danica Ab Other Ephema Ab Total no. of taxa Trichoptera: Hydropsychidae Ab Polycoptropodidae Ab Polycoptropodidae Ab Polycoptropodidae Ab Philopotamidae Ab Limnephilidae Ab Limnephilidae Ab Lepidostomatidae Ab Lepidostomatidae Ab Lepidostomatidae Ab Lepidostomatidae Ab Cercord Ab Tubificidae (Ol) Ab Tubificidae (Ol) Ab Chironomidae (D) Ab Tubificidae (Ol) Ab Cercord ab Cercorded as absent if none
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Figure A1: SSRS score sheet page 1 at upstream (u/s) site on the Cloneymeath River, Summerhill, Co. Meath.

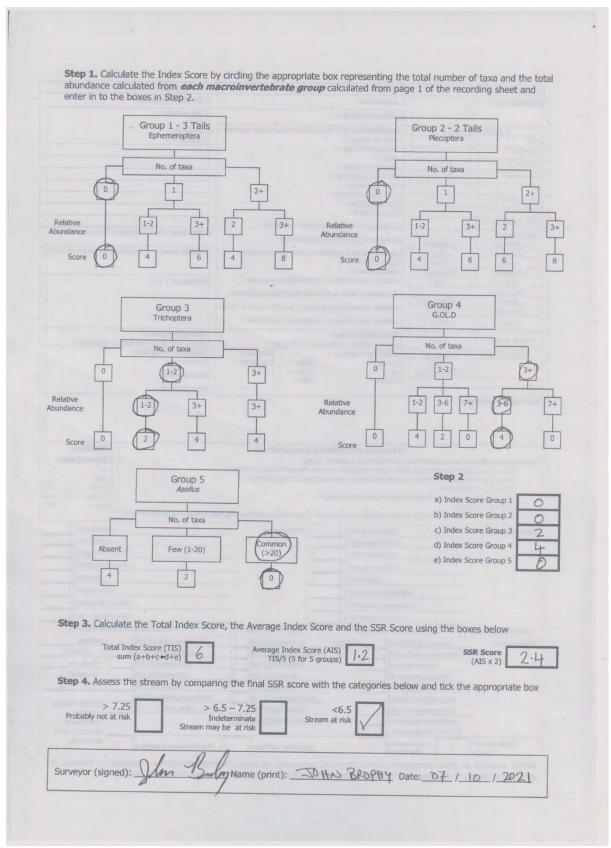


Figure A2: SSRS score sheet page 2 at upstream (u/s) site on the Cloneymeath River, Summerhill, Co. Meath.

	MEATH	Code: 07k0		the state of the s		09:3		
Station no.			MMERHIL	L	Grid (6 figure)	N 8	32508	
D/3	S	Stream Order:	3		Stream flow:			
Field Che		Modifications: Y/N	Canalised-wide	ned bank erosion-	Riffle/Glide			
DO%	83	arterial drainage Dominant Types:			Slow flow	_		
DO mg/l	6.7	Bedrock						
Temp (°C)	13.0	Boulder (>128mm)						
Conductivity	793,45	(Cobble (32-128mm) Gravel (8-32mm)	0			_		_
Bank width (cm)	7.88	Fine Gravel (2-8mm)					_
Wet width (cm)	200	Sand (0.25-2mm)						_
Avg Depth (cm)	20	(Silt (<0.25mm))		- A 40 - X		-		
Staff gauge	NIA	Slope: Low - Medit			Shading: High - Mo	oderate	- Low Non	3
Velocity	Colour	Geology: Calcareo	is-Siliceous-Mixe	d	Community rings			7
Torrential	None	Substratum Cond	ition: Calcareou	s-Compacted-	Cattle access(Y:) up	stream	— downstrea	m or
Fast (Moderate)	Slight	Loose - Normal Substratum:						
Slow	High	Stoney bottom Mud	dy bottom-Mud o	over stones	Photo(V) N			
Very slow		Degree of siltation			THOUSE OF IN			
Clarity	Discharge	Depth of mud: No	0					
Very dear	Flood	Litter: None - Pres	20					
Clear	(Normal)			Abundant				
Slightly turbid	Low	None – Present – (Me		ant	Sewage Fungus: None - Present - Mo	derate	- Abundant	
Highly turbid	Very Low	Main land use u/s		Sample	Sampled in Minute		71007100710	
	Dry	Pasture	Urban	retained:	Pond net x 2			
	Recent Flood	Forestry	Tillage Other	YN	Stone wash x			
					Weed sweep x MA			
	s:				recu streep x 7-p			
The macroinvertebra		Macroinvertebr		sition	Trees street, a 1-1-1		Relative	Ce
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Figure A3: SSRS score sheet page 1 at downstream (d/s) site on the Cloneymeath River, Summerhill, Co. Meath.

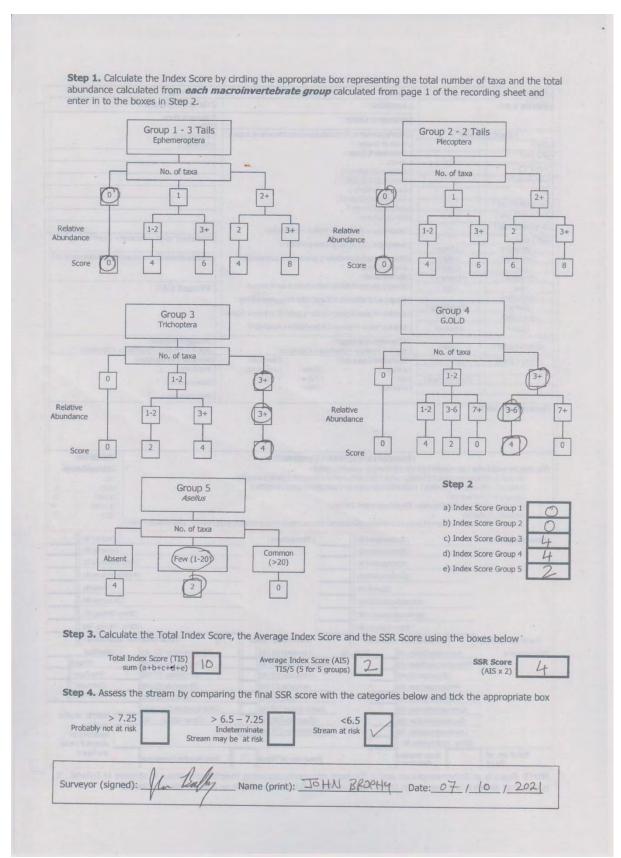


Figure A4: SSRS score sheet page 2 at downstream (d/s) site on the Cloneymeath River, Summerhill, Co. Meath.

Appendix I – Plates



