# Annual Environmental Report 2024



Glenties

D0210-01

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

This Annual Environmental Report has been prepared for D0210-01, Glenties, 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)

• Glenties WWTP with a Plant Capacity PE of 1600, 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
TPEFF0600D0210SW001	Glenties 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 GLENTIES WWTP - TREATED DISCHARGE

#### 2.1.1 INFLUENT MONITORING SUMMARY - GLENTIES 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	6	4.06	1.83
pH pH units	6	7.20	6.99
Ammonia-Total (as N) mg/l	6	37	18
BOD, 5 days with Inhibition (Carbonaceous BOD) mg/l	6	211	129
Suspended Solids mg/l	6	268	144
Total Nitrogen mg/l	6	40	26
COD-Cr mg/l	6	554	221
Total Phosphorus (as P) mg/l	6	4.46	2.29
Hydraulic Capacity	N/A	996	297

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 - TPEFF0600D0210SW001

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	N/A	N/A	17	Pass
Suspended Solids mg/l	25	62.5	N/A	6	N/A	N/A	5.16	Pass
BOD, 5 days with Inhibition (Carbonaceous BOD) mg/l	25	50	N/A	6	N/A	N/A	1.53	Pass
pH pH units	9	9	N/A	6	N/A	N/A	7.23	Pass
Ammonia-Total (as N) mg/l	3	3.6	N/A	6	N/A	N/A	0.022	Pass
ortho-Phosphate (as P) - unspecified mg/l	1	1.2	N/A	6	N/A	N/A	0.072	Pass
Total Nitrogen mg/l	N/A	N/A	N/A	6	N/A	N/A	3.50	

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)
Total Phosphorus (as P) mg/l	N/A	N/A	N/A	6	N/A	N/A	0.109	
Conductivity @20°C µS/cm	N/A	N/A	N/A	6	N/A	N/A	383	

#### 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):**

#### Not applicable

#### **Significance of Results:**

The Wastewater Treatment Plant is complaint with the ELVs set in the WWDL.

## 2.1.3 AMBIENT MONITORING SUMMARY FOR THE TREATMENT PLANT DISCHARGE TPEFF0600D0210SW001

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	181839, 394219	RS38S010170	No	No	Yes	No	Good
Downstream	180444, 393117	RS38O040300	No	No	Yes	No	Good

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 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.

#### 2.1.4 OPERATIONAL PERFORMANCE SUMMARY - GLENTIES WWTP

#### 2.1.4.1 Treatment Efficiency Report - Glenties 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)
TP	274	12	96

Parameter	Influent mass loading (kg/year)	Effluent mass emission (kg/year)	Efficiency (% reduction of influent load)
TN	3115	379	88
ss	17211	559	97
COD	26466	1825	93
cBOD	15493	166	99

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

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

Glenties WWTP				
Peak Hydraulic Capacity (m³/day) - As Constructed	1200			
DWF to the Treatment Plant (m³/day)	400			
Current Hydraulic Loading - annual max (m³/day)	996			
Average Hydraulic loading to the Treatment Plant (m³/day)				
Organic Capacity (PE) - As Constructed				
Organic Capacity (PE) - Collected Load (peak week)Note1	736			
Organic Capacity (PE) - Remaining	864			
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 - GLENTIES 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 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)			
There were no reportable incidents in 2024.						

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

Question	Answer			
Number of Incidents in 2024	0			
Number of Incidents reported to the EPA via EDEN in 2024				
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 2024 (No. of events)	Total volume discharged in 2024 (m3)	Monitoring Status
SW2	181817, 394182	Yes	Low Significance	Meeting Criteria	Unknown	Unknown	Not Monitored
твс	181435, 394333	Yes	Low Significance	Meeting Criteria	Unknown	Unknown	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)?	0
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?	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
D0210-SIP:02	Provision of storm water holding tank at proposed main pumping station (location of existing septic tank)	С	31/12/2014	Yes	Works Completed		
D0210-SIP:03	SW000 located at Gortnamucklagh townland (at rear of church) to be discontinued	А	31/12/2014	Yes	Works Completed		
D0210-SIP:01	Provision of new Waste Water Treatment Plant and ancillary works	С	31/12/2014	Yes	Works 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 Identifier	Improvement Description / or any Operational Improvements	Improvement Source	Expected Completion Date	Comments
No additional improver	ments 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
D0210-01-Pearl Mussel Report	Yes	No
D0210-01-Priority Substances Assessment	Yes	No
D0210-01-Small Stream Risk Score Assessment	Yes	Yes

#### **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	Yes

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

Signed: Date: 14/04/2025

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**

#### **Appendix**

Appendix 7.1 - Ambient monitoring summary

Appendix 7.2 - Small Stream Risk Score Assessment

### Glenties WWTP

Ambient Monitoring Points from	Irish Grid Reference	EPA Feature Coding Tool code		Receiving Wa	ters Designation (Y/I	N)	WFD Status
WWDL (or as agreed by EPA)			Bathing Water	Drinking Water	FWPM	Shellfish	
Upstream Monitoring Station	181839E 394219N	RS38S010170	No	No	Yes	No	Good
Downstream Monitoring Station	180444E 393117N	RS38S010170	No	No	Yes	No	Good

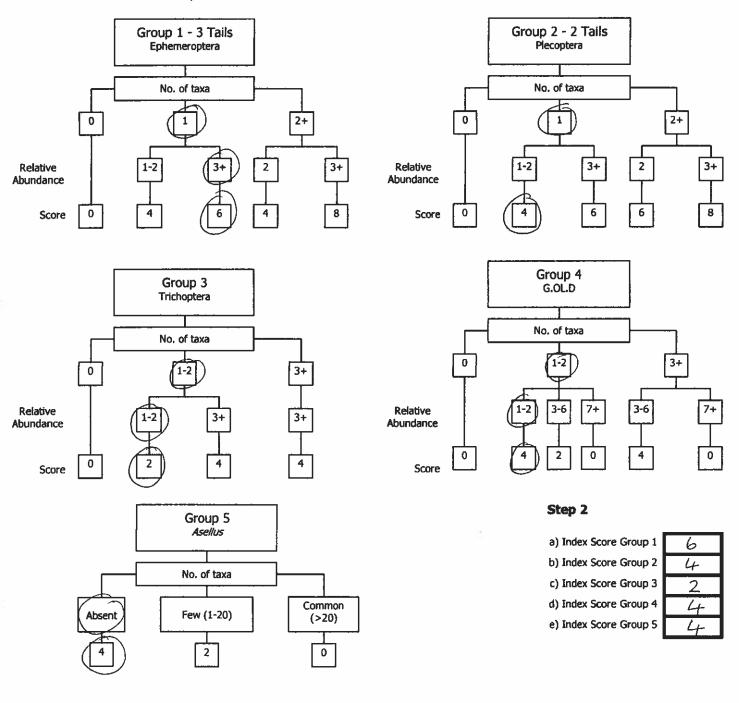
Parameter Name	Upstream Monitoring Point	Upstream Monitoring Point	Downstream Monitoring Point	Downstream Monitoring Point	EQS (mean)	% EQS
	Location	Annual Mean	Location	Annual Mean		
cBOD mg/l	181839E 394219N	1.1	180444E 393117N	1.1	1.5	0
Ortho-Phosphate (as P) mg/l	181839E 394219N	0.036	180444E 393117N	0.041	0.035	-14.2
Ammonia (as N) mg/l	181839E 394219N	0.025	180444E 393117N	0.020	0.065	-7.69

County	Licence Ref.	Agglomeratio	Receiving Water Body	Monitoring Location	Monitoring Result Source	Date																																
							рН	Temperatur e (°C)	BOD mg/I	COD mg/l	SS mg/l	Total Nitrogen (as N) mg/l	Total Phosphorus (as P) mg/l	Ammonia (as N) mg/l	Orthophos hate (as P) mg/l	Dissolved Oxygen mg/l	Dissolved Oxygen %Sat	Total Oxidised Nitrogen (as N) mg/l	Dissolved Inorganic Nitrogen (as N) mg/l	Coliforms	Escherichia coli cfu/100ml	Intestinal Enterococci cfu/100ml	Visual Inspection	SSRS	Water level	Conductivity	Chloride	Fluoride	Ammonium (NH4)	Major anions	Major Cations		Metals & Organic Compounds	Salinity	Nitrate	Nitrite	Chlorophyll (ug/l)	Chlorophyll (mg/m3)
Donegal	D0210-01	Glenties	Stracashel River	Number of samples Required				6 6	0	0	6	6	6	6	6	6		6	6	0	0	0	6		6	0	0	0	0	0	0	0	0	0	0	0	0	0
Issued on	22/12/2011		Owenea	Upstream: SW1u ()																																		
				Downstream:SW1d ()																																		
				Glenties - Upstream	Email	29-Feb-2024	7	6.8	1	NT	6	1	0.05	0.015	0.05		98.2	NT	NT	NT	NT	NT		NT		86								NT	NT	NT	NT	
				Glenties - Downstream	Email	29-Feb-2024	6.9	6.6	1	NT	6	1	0.05	0.015	0.05		98.4	NT	NT	NT	NT	NT		NT		85								NT	NT	NT	NT	
				Glenties - Upstream	Email	23-Apr-24	7	10.8	1	NT	6	1	0.05	0.015	0.05		98.7	NT	NT	NT	NT	NT		NT		96								NT	NT	NT	NT	
				Glenties - Downstream	Email	23-Apr-24	7	11.7	1	NT	6	1	0.05	0.015	0.05		106	NT	NT	NT	NT	NT		NT		102								NT	NT	NT	NT	
				Glenties - Upstream	Email	27-Jun-24	6.9	14.9	1	NT	6	1	0.05	0.015	0.05		103.4	NT	NT	NT	NT	NT		NT		103								NT	NT	NT	NT	
				Glenties - Downstream	Email	27-Jun-24	7	16.2	1	NT	6	1	0.05	0.015	0.05		103.7	NT	NT	NT	NT	NT		NT		102								NT	NT	NT	NT	
				Glenties - Upstream	Email	21-Aug-24	6.5	12.9	1	NT	6	1	0.05	0.015	0.05		92.8	NT	NT	NT	NT	NT		NT		69								NT	NT	NT	NT	
				Glenties - Downstream	Email	21-Aug-24	7.2	13	1	NT	6	1	0.05	0.015	0.05		92.6	NT	NT	NT	NT	NT		NT		67								NT	NT	NT	NT	
				Glenties - Upstream	Email	30-Oct-2024	7	12.2	1	NT	6	0.5	0.04	0.02	0.01		102.4	NT	NT	NT	NT	NT		NT		71								NT	NT	NT	NT	
				Glenties - Downstream	Email	30-Oct-2024	7	12.3	1	NT	6	0.5	0.19	0.02	0.01		101.2	NT	NT	NT	NT	NT		NT		181								NT	NT	NT	NT	
				Glenties - Upstream	Email	22-Nov-24	7.4	4.4	2	NT	18	0.7	0.05	0.07	0.01		102.7	NT	NT	NT	NT	NT		NT		81								NT	NT	NT	NT	
				Glenties - Downstream	Email	22-Nov-24	7.2	4.1	2	NT	17	0.7	0.04	0.04	0.04		102.6	NT	NT	NT	NT	NT		NT		82								NT	NT	NT	NT	

River: Ow	enea uls	Code:	,	Date:	9/5/20	4	Time:	<i>T</i> :	3.00	
Station no. U	pstream of	Location: 5	4°47'	28.2N	8° 17'35.	5 W	Grid (6 figure):	us	MIN'S	P
RS 38004	0240 WW						Stream flow:			
Field Che		Modifications:		lised-wide	ned-bank eros	sion-	Riffle / Riffle/Glide			
D0%	107.6	arterial drainage					Slow flow			
DO mg/l	10.73	Dominant Type Bedrock	es:			[				
Temp (°C)	15.00	Boulder (>128m	m) 🗸			[	2000			
Conductivity	88-7	Cobble (32-128n	nm) 🗸			[				
pH	8.19	Gravel (8-32mm				[			32.0-10	
Bank width (cm)	2600	Fine Gravel (2-8 Sand (0.25-2mm							1000	
Wet width (cm)	2400	Silt (<0.25mm)	•							
Avg Depth (cm)		Slope: Low - M	edium – H	ligh – Ven	y High					
Staff gauge	Colour	Geology: Calca	-				Shading: High – Mo	derate	- Low- Nor	ne
Velocity Torrential	Colour None	Substratum Co				.	Cattle access Y: ups	tream	– downstrea	am or N
Fast	Slight	Loose - Normal			J. Compocion	1				
Moderate	Moderate	Substratum:	444 64							
Slow	High	Stoney bottom-N					Photo: Y/I N			
Very slow Clarity	Discharge	Degree of silta		•			V			
Very dear	Flood	Depth of mud:				10cm				
Clear	Normal	Litter: Norie – F	resent - 1	Moderate :	- Abundant					
Eliabeth to which	Low \	Filamentous A					Sewage Fungus:			
Slightly turbid		None - Present		e - Abund			None - Present - Mod		- Abundant	
Highly turbid	Very Low Dry	Main land use Pasture		Urban	Sample retained:		Sampled in Minutes Pond net x 3	3:		
	Recent Flood	Bog		Tillage	Y) N		Stone wash x 3			
		Forestry	(	Other		ĺ				
General Comment	<u></u>		X 10.00		L		Weed sweep x			
		Macroinverto	ehrate (	Compo	sition				Relative	
The macroinvertebra	ites are divided into							- 1	Abunda	
		sils) – note that tail				ng			1-5	1
Group 2 = M		note that tails may	oe dama	gea aurin	g sampling				6-20	2
• Group 4 = G	.OL.D (Gastropoda	, Oligochaeta and D	Diptera)						21-50 51-100	3 4
Group 5 = A		wa and relative abo	adance of	i aada ma	d.a.v.a.da.a.da.a.da		below: (Abundance -		101+	5
	: total fibiliber of ta		I IIII III CE OI			e group	Delow: (Abundance =			
Ephemeroptera:		Ecdyonurus Ab		Plecop	tera:				euctra Ab	
		Rhithrogena Ab Heptagenia Ab	3		•				soperla Ab	
		Ephemerelia Ab			,	,			nemura Ab nemura Ab	
		Caenis Ab		1	,			чтрт	<i>Perla</i> Ab	
	,	araleptophlebia Ab		1	•				inocras Ab	
		hemera danica Ab			•				Plecop Ab	
	Ερ	Other Ephem Ab			,	, <u>.</u>				
Total no. of tax	Table	sative Abundance	3	Tabal m	a of Town				Plecop Ab	1
the second secon				_	o. of Taxa	_/	Total Relat	IVE AD	-	
Trichoptera:	Hydropsychid Polycentropodid			Lymnae amopyrgu	⊌(G) Ab		Chironomidae (D) Ab Chironomus (D) Ab		Asellus: Abse	nt /
	2- Rhyacopl		FOU		is (G) Ab			7	Few/Lov	_
i	Philopotamid		r		/5 (G) Ab		Dicranota (D) Ab		Common	
	Limnephilid				∂(G) Ab		Tipulidae (D) Ab		Numerous	
'	Sericostomatid		Lu	umbriculus		C	eratopogonidae (D) Ab			-
	Glossosomatid	ae Ab			OI) Ab		Other GOLD Ab		NOTE: As must be	sellus
	Lepidostomatid		1	ubificidae	e (OI) Ab				recorded	as
	Other Trichopter				<b>J</b>	_			absent if i	none
Total no. of	2 Total Re	elative	Т	otal no.	of Taxa	To	otal Relative Abundance	2	are found	

**NOTE** *Baetis* is an Ephemeropteran and is the most commonly occurring invertebrate genus in streams in Ireland. It is vital that *Baetis* is not counted in SSRS. See Appendix B for more details on how to Identify *Baetis*.

Step 1. Calculate the Index Score by circling the appropriate box representing the total number of taxa and the total abundance calculated from each macroinvertebrate group calculated from page 1 of the recording sheet and enter in to the boxes in Step 2.



Step 3. Calculate the Total Index Score, the Average Index Score and the SSR Score using the boxes below

> 6.5 - 7.25

Indeterminate

> 7.25

Probably not at risk

Total Index Score (TIS) Average Index Score (AIS) SSR Score 8 sum (a+b+c+d+e) TIS/5 (5 for 5 groups) (AIS x 2) Step 4. Assess the stream by comparing the final SSR score with the categories below and tick the appropriate box

<6.5

Stream at risk

Stream may be at risk JOE FERRY Date: 9 15 12024 Name (print): \_ Surveyor (signed):

River: Ou	10 O. DD	Code:	Date	10/05/21	Time: 12 3	
Station no.	Jerror	Location	d/s Glen	ries	GMG (o HAMI A).	10 ( No. ( 23)
21250	0569	Stream Or	der:		Stream flows	
		Madifications	of V/N Canalised-w	ridened bank erosion-	Driffle/Gilds	
DO%	Chemistry 18.3	arterial drainag	pe de la companya de		Slow flow	
DO mg/l	116	Dominant Ty	pes;			
Temp (°C)	16.2	Bedrock Boulder (>128	mm)			
Conductivity	93.8	Cobble (32-128	Bmm)	and the first		
pH	8.02	Gravel (8-32mi Fine Gravel (2-	m) -Amm)			NAME OF THE PARTY
Bank Width (cm)	2400	Sand (0.25-2m	im)			
Wet width (cm)	12200	SiR (<0.25mm)	APPENDING TO A PERSON AND A PER			
lvg Depth (cm)	120		Medium - High - V		Shading: High - Moderate	Low) None
Staff gauge Velocity	Colour	Geology: Calc	areous Siliceous M	fixed		
Torrential	None	Substratum C	Condition: Calcare	eous Compacted	Cattle access Y: Upstream	- 00MISUESIII OI II
Fest	(Slight)	Loose - Normal				
Moderate	Moderate	Substratum:	Muddy bottom Mu	of mier change	Photo: Y / N	MANERO SERVICE
Very slow	High	The second secon	SECOND PROPERTY OF THE PARTY OF		Photo: 1711	
Clarity	Discharge	OF THE STREET,		Moderate-Heavy		
Very dear	Flood	THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TW	STATE OF THE PARTY	5cm: 5-10cm: >10cm		
Clear	Normal	Litter None -	Present - Modera	te - Abundant		AR BUILDING THE REAL PROPERTY.
Slightly turbid	LOW	Filamentous /			Sewage Fungus:	Abundant
lighly turbid	Very Low	None Present Main land use	- Moderate (Abu		None - Present - Moderate Sampled in Minutes:	- AQUIDANC
THE WATER	Dry	Pasture Use	u/s: Urban	Sample retained:	Pond net x 3	
	Recent Flood	Bog	Tillage	Y/N	Stone wash x.3	
	AND COMPANY OF THE PARK OF THE	Forestry	Other		Weed sweep x	
eral Comment					THE RESERVE OF THE PARTY OF THE	CONTROL OF THE PARTY OF THE PAR
Group 1 = Ep Group 2 = Ple	es are divided into hemeroptera (3-tali coptera (2-talis) - r	Macroinvert	pecific groups:	ed during eamoling		Relative Abundance
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NOTE Baetis is an Ephemeropteran and is the most commonly occurring invertebrate genus in streams in Ireland. It is vital that Baetis is not counted in SSRS. See Appendix B for more details on how to identify Baetis.

