



UISENIS WIND FARM FISH HABITAT SURVEY REPORT

UISENIS WIND FARM

OUTER HEBRIDES FISHERIES TRUST

1/12/2022

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1 Executive Summary

Gavia Environmental Ltd. ('GEL') was commissioned by the Outer Hebrides Fisheries Trust (OHFT) ('the Client') to compile a summative report of baseline data collected by the OHFT on fish habitat and salmonid spawning habitat for the Uisenis Wind Farm ('the Development') located at grid reference NB 30848 12877 (centre point of development) on the Eisgein Estate, approximately 20 km southwest of Stornoway on the Isle of Lewis ('the Site').

The Outer Hebrides Fisheries Trust carried out fish habitat surveys at six locations following the methodology outlined in Scottish Fisheries Coordination Centre (SFCC) (2007). Observations were made in the context of SFCC definitions and those outlined by Louhi et al. (2008). Field data was then analysed and graded as having High, Good, Moderate, Poor or Low fish habitat quality.

Fish spawning potential surveys were carried out at six locations following the SFCC (2007) methodology and graded as having Optimal, Sub-Optimal or Not Suitable salmonid habitat suitability.

Fish habitat survey results ranged from High (Uise 4 and Uise 5), Good (Uise 2 and Uise 6) and Moderate (Uise 1 and Uise 3). No Poor or Low fish habitats were identified.

Fish spawning habitat results ranged from Optimal (Uise 5), Sub-Optimal (Uise 2, Uise 3, Uise 4) and Not Suitable (Uise 1, Uise 6).

Based on this assessment, electrofishing surveys are recommended for survey locations Uise 2, Uise 4, Uise 5 and Uise 6 to provide baseline data for the salmonid population densities and to further inform the species community assemblage present within the Site. Moreover, it is recommended that "control site(s)" are established during baseline electrofishing, i.e. locations outwith the potential sphere of influence of the development. The objective of the "control site(s)" are to record any effects that are catchment based and not directly attributable to the proposed Development. These controls will be able to assess whether changes in fish population structure is a wider catchment based effect or one directly attributable to the proposed Development. Macroinvertebrate surveys are proposed as a biological water quality monitoring parameter and to assess prey resources for fish present in survey locations Uise 2, Uise 4, Uise 5 and Uise 6. Redd counts are additionally proposed for survey locations Uise 2, Uise 3, Uise 4 and Uise 5 during known spawning periods (November to January) to assess spawning utilisation of survey locations and to determine relative importance of survey locations in sustaining overall salmonid populations.

2 Introduction

Gavia Environmental Ltd. ('GEL') was commissioned by the Outer Hebrides Fisheries Trust (OHFT) ('the Client') to compile a summative report of baseline data collected by the OHFT for the Uisenis Wind Farm ('the Development') located at grid reference NB 30848 12877 (centre point of Development) on the Eisgein Estate, approximately 20 km southwest of Stornoway on the Isle of Lewis ('the Site').

The Development encompasses 26 turbines up to a maximum of 215 metres in height with an installed capacity of 189 MW (Eurowind Energy, 2022). In 2022 Eurowind Energy submitted a Scoping Report to the Scottish Government outlining environmental surveys and assessments required; this report fulfils such a purpose.

This report aims to:

- Provide baseline fish habitat data for the Development;
- Identify areas of Optimal fish habitat and fish spawning habitat; and
- Make relevant recommendations for further surveys to inform the baseline if required.

3 Methodology

3.1 Desk Study

A desktop study was carried out at the start of the commission to review pre-existing data to provide background on existing fish community assemblages. Information sources used for this study are described below:



- NBN Atlas (2022) a species search was conducted for fish species known to occur within the Development area within the last 10 years via non-commercial data records¹;
- Scottish Environmental Protection Agency (SEPA) (2022) the SEPA Water Classification Hub was referred to and information regarding the classification status of parameters affecting fish communities (e.g., barriers to migration, water quality) were noted;
- Naturescot (2022) a search was performed looking for nature conservation sites with qualifying interests relating to fish species or aquatic environments within 2km of the Development including; Natura 2000 sites (i.e. Special Areas of Conservation); Special Sites of Scientific Interest (Statutory); and Local Nature Reserves or Local Wildlife Sites (nonstatutory).

3.1.1 River Classifications

The rivers present on stream are considered to be under the following classifications:

- Abhainn Cheothadail (ID: 20761) is considered to be in a 'High' overall status receiving a 'High' classification on every parameter measured since 2008, including that of fish ecology and fish barriers. The main stem is approximately 7.8 kilometres in length and flows into Loch Sealg.
- Abhainn Cleann Airighean Dhomhnaill (ID: 20762) is considered in 'Good' overall status since 2016 receiving 'High' and 'Good' classifications on all parameters measured. Parameters relevant to fish ecology include macroinvertebrates (High) and fish barriers (High). The main stem is approximately 4.7 kilometres and flows into Loch Sealg, however, impassable falls are located approximately 250 m inland of Loch Sealg. Consequently, adult migratory salmonids are only able to access 250 m of the 4.7 km river. Limitations of this river course are primarily water quality parameters, such as acidity and pH, and accessibility for adult migratory salmonids moving upstream.

The rivers Ahbainn Ghlas, Abhainn Scrihascro and Allt Cheothadail are currently not listed on the SEPA (2022) Water Classification Hub.

3.2 Nature Conservation Designations

No areas with qualifying interests relating to fish species or aquatic environments were identified.

3.3 Review of Known Fish Species

Within the Site, three fish species are known to be present: European eel (*Anguilla Anguilla*), Atlantic salmon (*Salmo salar*) and brown/sea trout (*Salmo trutta*) (NBA Atlas, 2022). The 15-spined stickleback (*Spinachia spinachia*) is known to occur in adjacent areas to the north of the Site but has not been recorded within the Site (NBA Atlas, 2022).

3.4 Survey Locations

The Site is situated on an area of predominantly peatland habitat on the Pairc peninsula on the south-eastern area of the Isle of Lewis. Watercourses on the Site fall into three water catchments; the Sgiobacleit catchment; the Eishken catchment; and the Loch Shell catchment. Within these catchments, six survey locations were selected for baseline fish habitat assessment. British grid references are given upstream of the survey location. A rationale for survey locations is additionally supplied in Table 1 based on the turbine layout provided by the Outer Hebrides Fisheries Trust on 07/11/2022.

¹ Data on protected species has been obtained from the National Biodiversity Network (NBN) Atlas under CC-BY and OGL licenses is available: CC-BY: Creative Commons with Attribution (more information available at: https://creativecommons.org/licenses/by/4.0/)

OGL: Open Government Licence (more information available <u>http://www.nationalarchives.gov.uk/doc/open-government-licence/version/3/</u>)

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Table 1: Survey Locations

Survey Location	Watercourse	Catchment	British Grid Reference (Upstream of Survey location)	Rationale
Uise 1	Abhainn Ghlas	Sgiobacleit System	132340 914889	Uise 1 is downstream of proposed turbines at the north of the Site and flows into Loch an Eilein Liatha where it may introduce construction run off from proposed turbines.
Uise 2	Abhainn Scrihascro	Eishken System	131571 913678	Uise 2 is upstream of Loch Esigein (which it discharges in to and may be impacted by construction run off from numerous proposed surrounding turbines.
Uise 3	Allt Cheothadail	Eishken System	130783 912472	Uise 3 is a tributary of the Abhainn Cheothadail and is situated upstream of Uise 5 and downstream of Uise 4 where it may be impacted by construction run off from proposed turbines higher up in the Eishken system.
Uise 4	Abhainn Cheothadail	Eishken System	130281 912279	Uise 4 is upstream of Uise 3 and Uise 5 where it may be impacted by construction run off from proposed turbines to the north and south of the survey location. Uise 4 additionally provides a base to assess the cumulative impacts of Uise 3 and Uise 5.
Uise 5	Abhainn Cheothadail	Eishken System	131055 912324	Uise 5 is downstream of survey location Uise 4 and Uise 3 and may be impacted by construction run off from proposed turbines to the north and south of the water course. Uise 5 runs into Loch Feoir which runs into Loch Eisgein.
Uise 6	Abhainn Cleann Airighean Dhomhnaill	Loch Shell	129407 910755	Uise 6 is out with red line boundary but lies directly downstream of three proposed turbines making it susceptible to construction run off.

Survey locations relative to proposed turbine locations are available in Appendix A and B. Photographs of survey locations are available in Appendix C.

3.5 Fish Habitat Survey

3.5.1 Fieldwork

Fieldwork was conducted on 31^{st} October 2022 for survey locations Uise 1 – Uise 5, and on the 1^{st} of November 2022 for Uise 6.

A walkover fish habitat survey was conducted along watercourses within the Site and one out with the Site boundary classifying: instream substrate types, bankside habitat characteristics, land use, channel dimensions, barriers to migration, water flow type, and salmonid spawning suitability according to the Scottish Fisheries Coordination Centre (SFCC) fish and spawning habitat classification categories outlined in the SFCC Habitat Surveys Training Course Manual (SFCC, 2007). Criteria used to inform desirable criteria for salmonids is available in Table 2.

Table 2: Desirable Sa	imonia Haditat	Conditions taken	Trom SFCC	2007)

	Salmon	Trout
Egg/Alevins	Golf ball to tennis-ball-sized (coarse) substrate	Dependent on fish size: Golf-ball to tennis-ball - sized substrate for large brown trout and sea- trout. Pea to golf-ball sized material for smaller trout.
Fry (<1 year old)	Golf ball to tennis-ball-sized (coarse) substrate, fast flowing, shallow broken water.	Golf-ball to tennis-ball sized substrate, slow to medium flowing shallow water, often concentrated at stream margins.



	Salmon	Trout	
Parr (≥1 year old)	Tennis-ball to football-sized (coarse) substrate, fast flowing broken water, often slightly deeper than fry	Variety of substrate, undercut banks, tree roots, big rocks, deeper slower water.	
Smolts	Unknown	Unknown.	
Adults	Deep pools	Deeper areas, sustained flow, but not too fast, undercut banks, tree roots, good instream vegetation and large rocks.	

Recording sheets are available in Appendix D-I.

3.5.2 Analysis

Analysis was conducted separately for salmonid habitat quality and salmonid spawning potential. Salmonid habitat type was determined via the fulfilment of desirable habitat types outlined in Table 2, taken from the SFCC Habitat Surveys Training Course Manual (SFCC, 2007).

Fish habitat suitability was graded taking the criteria outlined in Table 2 into consideration. Habitat was categorised into five suitability grades: High; Good; Moderate; Low; and Poor, described in Table 3.

Table 3: Fish habitat suitability grades

Grade	Conditions	
High	All desirable habitat conditions are met	
Good	Most of desirable habitat requirements met with few adverse conditions present	
Moderate	Habitat displays a mixture of both desirable and adverse conditions	
Poor	Habitat primarily consists of adverse conditions with few desirable conditions present	
Low	Little/no desirable habitat conditions present	

Salmonid spawning potential was assessed via the SFCC Walkover Habitat Survey Protocol and Habitat Surveys Training Course Manual (2007). Survey locations were graded as having Optimal, Sub-Optimal or Not Suitable salmonid spawning potential. Spawning potential is considered Optimal if an area greater than 10 m² is present with clean and suitable substrate likely suitable to all salmonids. Spawning potential is considered Sub-Optimal if spawning area is <10 m² with a mix of suitable and unsuitable substrate types. Not Suitable spawning habitat contains no suitable spawning habitat. Additional assessment of spawning potential was taken from Louhi *et al.* (2008) to provide additional information on the categories assessed: substrate type, substrate compaction, river depth, flow type, and siltation. Spawning habitat potential assessment criteria is shown in Table 4.

Table 4: Suitable Salmon and Trout Spawning Habitat taken from SFCC (2007) and Louhi et al. (2008)

	Substrate	Substrate compaction	Depth (cm)	Flow Type	Siltation
Salmon	Gravel, pebble, cobble	Uncompacted	20-50	Swift velocities	No siltation
Trout	Gravel, pebble, cobble	Uncompacted	15-45	Slower flow	No siltation

3.6 Limitations to Survey

The survey was conducted outwith SFCC optimal survey times (Mid-May to September) when instream and bankside vegetation is fully developed, rivers are more likely to be in consistently low flow conditions and weather is more favourable. This may result in an underestimation of the actual habitat status due to vegetation die-back on the banks and from river substrate being obscured by higher flow rates.



Additionally, peat staining of the water throughout survey locations may have prevented accurate assessment of substrate types and instream cover in areas of deeper water.

4 Results

Results of the fish habitat and spawning suitability survey are presented in Table 5.

Table 5: Results of Fish Habitat and Spawning Potential Surveys

Survey Location	Fish Habitat Quality	Salmonid Spawning Potential	
Uise 1	Moderate	Not Suitable	
Uise 2	Good	Sub-Optimal	
Uise 3	Moderate	Sub-Optimal	
Uise 4	High	Sub-Optimal	
Uise 5	High	Optimal	
Uise 6	Good	Not Suitable	

4.1 Uise 1

Fish Habitat Quality was determined to be **Moderate**. Uise 1 provided overall good quality for adult trout, however, was limited in providing habitat for salmon and other trout life stages. Substrate composition of cobble/high organic matter (both 50%) provided Sub-Optimal substrate for salmon/brown trout at all life stages. Flow type dominated by deep pools primarily >80 cm in depth provided Optimal habitat for adult brown trout and holding pools for spawning salmon, however, was unsuitable for fry and was out with the maximum depth preferences of parr. Bankside cover was excellent at 100% coverage on both sides, dominated by undercutting and roots on the left bank, and undercutting on the right bank. A culvert present provided additional anthropogenic fish cover but did not present a barrier to migration in the flow conditions present at the time of survey.

Spawning potential was determined to be **Not Suitable** due to a lack of qualifying Optimal and Sub-Optimal features. Substrate composition was 50/50 cobble/high organic matter with a notable absence of preferential gravel and pebbles, this was partly compacted. River depth provided Poor suitability with 95% of area surveyed unsuitable between 41-80+ cm in depth for both salmon and brown trout. Although no instream siltation was recorded the dominance of flow type as deep pool making this Not Suitable for salmon and Sub-Optimal for brown trout.

4.2 Uise 2

Fish Habitat Quality was determined to be **Good** due to the dominance of habitat suited to a wide range of life stages. Substrate was highly variable with gravel (5%), pebble (25%), cobble (50%) and boulder (20%), however, the dominance of coarser substrate types and notable lack of finer substrates makes the survey location Optimal for all life stages. The primary flow type of shallow glide (70%) is Optimal for all life stages. Areas of run (10%) and riffle (10%) are considered Optimal for juvenile salmon but are present only in small quantities. The dominance of depth ranging from 21-40 cm is Optimal for parr and considered Sub-Optimal for fry at their respective depth limits, and Not Suitable for adults. Both banks provide good coverage with 100% bank cover dominated by undercutting, root and rock presence.

Spawning potential was determined to be **Sub-optimal**. Substrate composition was primarily cobble (50%) and pebble (25%) with some gravel (5%) that was uncompacted providing Optimal conditions. Depth additionally provided Optimal conditions for both salmon and brown trout with 90% of water between 21-40cm with some additional area between 41-80cm in depth. Flow type was dominated by an Optimal shallow glide (70%) flow with smaller proportions of shallow pools (10%), run (10%) and riffle (10%) with no instream siltation. Although a dominance of Optimal features were observed, the area this covered was >10 m² at 6 m² and therefore did not qualify as Optimal under SFCC classification.

4.3 Uise 3



Fish Habitat Quality was determined to be **Moderate**. Substrate type ranged widely from gravel (10%), pebble (15%), cobble (20%), boulder (50%) and bedrock (5%). High coverage of coarser substrates provide Optimal habitat for salmonids at all life stages. Flow type was dominated by unsuitable torrent water (65%) with some Optimal riffle (15%) areas for salmon juveniles and Optimal shallow glide (20%) for all salmonids. Depths varied considerably throughout the survey location from 0-20 cm (10%), 21-40 cm (55%) and 41-80 cm (35%) providing minimal Optimal depth suitability for fry but large Optimal areas for parr. Both banks provide good fish cover at 100% (left bank) and 80% (right bank) as a result of undercutting, vegetation draping, and rock.

Spawning potential was determined to be **Sub-optimal** due to a mixture of Optimal and Sub-Optimal qualifying features and a lack of Not Suitable features. Substrate composition was primarily unsuitable boulder (50%) with areas of suitable substrate with gravel (10%), pebble (15%) and cobble (20%) providing overall Sub-Optimal conditions. Substrate was uncompacted with no siltation but substrate was unstable. Depth was primarily Optimal with 55% of water within 21-40 cm with Sub-Optimal shallower (0-20 cm) depths at 10% and deeper (41-80 cm) at 35% providing overall Sub-Optimal conditions. Flow type was dominated by unsuitable torrent water (due to the presence of a large waterfall within the survey location) at 65% with some Optimal areas present with shallow glide (20%) and riffle (15%) providing overall Sub-Optimal conditions. The useable spawning area was 15% and covered 3 m².

4.4 Uise 4

Fish Habitat Quality was determined to be **High**. Substrate was dominated by Optimal coarse substrate types primarily boulder (55%), cobble (25%) with unsuitable bedrock (10%) and fine substrates (10%) for all life stages present in lower percentages. Flow type was dominated by an Optimal riffle (40%) / run sequence (25%) for juvenile salmon and sub-Optimal area for brown trout. Still marginal (5%) and shallow glide (30%) flows provided Optimal flow types for salmonids at all life stages. Water depths were within Optimal ranges for salmonid parr but considered unsuitable for fry and out with preferred depths of adult salmonids and therefore Sub-Optimal. Bank cover was good with both banks recording 80% fish cover due to a dominance of bank undercutting and rocks.

Spawning potential was determined to be **Sub-Optimal**. Despite a dominance of Optimal fish habitat features, there was a lack of spawning substrate limiting spawning potential. Substrate was primarily unsuitable boulder (55%), high organic (5%), sand (5%) and bedrock (10%) with areas of Sub-Optimal cobble. Depth ranged from Optimal (30%) with some Sub-Optimal and unsuitable areas (combined 70%). Substrate was optimally stable and uncompacted with no siltation present. Flow type consisted of Optimal salmon areas, 40% riffle, with areas both Optimal for salmon and trout, run (25%), still marginal (5%) and shallow glide (30%).

4.5 Uise 5

Fish Habitat Quality was determined to be **High**. Substrate types provided a range of Optimal conditions with a dominance of coarse cobble (40%), pebble (30%), gravel (20%) and boulder (10%). Flow type was dominated by run flow (80%) considered Optimal for all salmonid life stages, areas of riffle (15%) provided Optimal conditions for salmon juveniles. Depth ranges from 21-40 cm (40%) and 41-80 cm (60%) providing Optimal depths for all juvenile salmonids but unsuitable conditions for fry and Sub-Optimal for adults. Fish cover was good at 90% (left bank) and 80% (right bank) with vegetation draping and bank undercutting providing cover.

Spawning potential was determined to be **Optimal**. Substrate was Optimal ranging from gravel (20%), pebble (30%) and cobble (40%) with smaller areas of unsuitable boulder (10%). Substrate was uncompacted and stable with no instream siltation observed. Depth consisted of both Optimal (40%) and Optimal/Sub-Optimal (60%) areas. The dominance of run (80%) and riffle (15%) flow type was Optimal for salmon but Sub-Optimal for brown trout. Other flow types of still marginal (5%) and riffle (15%) was Optimal for all salmonids. It should be noted that although classed overall as Optimal this survey location is likely Optimal for salmon and Sub-Optimal for brown trout. Total useable spawning area covered 144 m².

4.6 Uise 6

Fish Habitat Quality was determined to be **Good**. Substrate was dominated by unsuitable bedrock (60%) and the Optimal coarser substrates of boulder (20%), cobble and pebble (both 10%). River depth supported Optimal ranges for all life stages of salmonids but was notably suited to parr and



adults. Flow types were dominated by riffle (50%) and run (30%) flow types were environmen Optimal for salmonid parr and Sub-Optimal for adults slower flow types including still marginal (5%) and deep pool (10%) was Optimal for all life stages of salmonid. Bankside fish cover was moderate at 40% at both banks with existing cover dominated by rock.

Spawning potential was determined to be **Not suitable**. Substrate present showed Optimal areas of pebble (10%) and cobble (20%), however, the survey location was dominated by unsuitable bedrock (60%) and boulder (20%). Substrate was uncompacted and stable and no siltation was present. Depth was primarily Not Suitable (40%) with areas Sub-Optimal/Not Suitable (50%) and minimal Optimal (10%) areas. Flow type was Optimal for salmon consisting of riffle (50%) and run (30%), Sub-Optimal for brown trout containing minimal Optimal areas (5%) with 10% of the survey location unsuitable. The useable spawning area covered 3 m². Additionally, impassable falls upstream of the survey location limit spawning potential in upstream areas.

5 Discussion

5.1 Fish Habitat

The habitat quality at each survey location varied; ranging from *High* (Uise 4 and Uise 5), *Good* (Uise 2 and Uise 6) to *Moderate* (Uise 1 and Uise 3). The presence of suitable substrates for juvenile and adult salmonid fish in addition to suitable flow types, depths and fish cover present contributed to these high categorisations. No survey locations were categorised as *poor* or *low*.

Several survey locations are situated downstream of multiple turbines and/or tributaries where turbines have been proposed. Consequently, numerous survey locations are at risk of cumulative impacts from the run- off from the Development such as Uise 5 that is downstream of Uise 3 and 4, a tributary and impacted area respectively.

As several survey locations include higher categorisations (e.g. *High* and *Good*) of fish habitat, it is suggested that electrofishing surveys be conducted to fully assess the fish populations present and to assess if any other species of nature conservation concern, such as European Eel, are present within the area.

It is additionally suggested that to adequately assess the impacts of the Development on the survey locations control sites need to be included in addition to those surveyed. These should be survey locations outwith the potential impacts of the Development to provide a baseline from which to put any fish population data into context when measuring the impacts of the Development. A control site within each river catchment should be considered. Moreover, macroinvertebrate surveys are suggested as a biological water quality monitoring parameter to further assess the habitat suitability of survey locations and to provide information on the prey resources potentially available for fish.

Survey locations on or discharging into the Abhainn Cheothadail, Uise 4, Uise 3 and Uise 5, are considered in High and Moderate fish habitat quality with Optimal and Sub-Optimal spawning habitat potential despite SEPA (2022) classification regarding fish ecology as 'High'. Additionally, the outlet of Loch Eisgein has a known Dam, of which the Abhainn Cheothadail runs into. The SEPA (2022) categorisation of the river as 'High' for fish barriers and the classification as 'Passable' (Scotland's Environment, 2022) suggests this does not pose an impassable barrier to migration, resultingly the survey locations are accessible to both migratory and resident salmonids.

Similarly, SEPA (2022) classifications on the Abhainn Cleann Airighean Dhomnaill received an overall 'Good' status with fish and fish barriers both receiving 'High' status, this is in line with the *Good* categorisation given within the results of this report. However, it should be noted that a wider range of parameters were measured for the Abhainn Cleann Airighean Dhomnaill than for the Abhainn Cheothadail with water quality parameters such as acidity and pH reducing overall ecological status; these were not measured for the Abhainn Cheothadail.

5.2 Salmonid Spawning Habitat

Salmonid spawning potential was variable within survey locations ranging from Optimal (Uise 5), Sub-Optimal (Uise 2, Uise 3 and Uise 4) and Not Suitable (Uise 1 and Uise 6). Overall, the majority of survey locations provided below Optimal spawning potential primarily due to the lack of suitable substrate and insufficient depths and flow types present.

It should be noted that the use of SFCC characterisation for spawning habitat suitability may result in the lower categorisation of survey areas due to the criteria that the useable spawning area must exceed 10 m^2 . Consequently, survey locations such as Uise 2 were categorised as Sub-Optimal



despite containing areas of Optimal spawning habitat. As results show limited areas environmen of Optimal spawning it is possible salmonids are primarily utilising Sub-Optimal spawning habitat areas.

As a result it is recommended that Redd counts are conducted in all survey locations of both Optimal and Sub-Optimal conditions to better assess the degree of spawning utilisation.

6 Recommendations

Based on the results of this report it is recommended that:

- Electrofishing surveys are conducted for all survey locations in a High or Good condition (Uise 2, Uise 4, Uise 5 and Uise) to provide baseline data for the actual salmonid populations and to further inform the species present within the Site;
- Electrofishing surveys are conducted outwith the potential sphere of influence of the Development to act as baseline surveys to inform whether survey locations identified have been impacted;
- Macroinvertebrate surveys are conducted for all survey locations in a High or Good condition (Uise 2, Uise 4, Uise 5 and Uise) as a biological water quality monitoring parameter and to assess the availability of prey resources for fish; and
- Redd counts are conducted for all survey locations in Optimal or Sub-Optimal conditions (Uise 2, Uise 3, Uise 4 and Uise 5) during known spawning to assess the degree of spawning utilisation, to estimate the number of females spawners in a given survey location and to determine its relative importance in sustaining wider salmonid populations.

7 References

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8 Appendices

Appendix A Fish Habitat Assessment



Legend Red Line Bou Estate Exclus Turbine Loca Fish Habitat Su Good Moderate	undary ion Zone ations rvey Locations	
Pr	oiect Number: P2300	2
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Project Title: Uiseni:	s Wind Farm Fish Hab	itat Survey Report
Client: C	Duter Hebrides Fisheri	es Trust
	Figure Title: Uisenis Fish Habitat	
Status: Final	Revision: 1	Page Size: A3
Drawn: RS	Reviewed: DM	Date: 15/11/2022
Perth: Inveralmond Business Glasgow: 54 C Notlingham: 16 Commerce WWW	GAVIA environmental	Telephone: 1738 718 685 141 401 0699 Telephone: 0115 695 0692 I.CO.UK



Appendix B Fish Spawning Assessment



Legend Red Line Bou Estate Exclus Turbine Loco Fish Spawning Optimal Sub-Optimal Not Suitable	undary ion Zone ations Potential	
Pr	oject Number: P2300	2
Project Title: Uiseni:	s Wind Farm Fish Habi	itat Survey Report
Client: C	Duter Hebrides Fisheri	es Trust
Uis	Figure Title: enis Spawning Habito	at
Status: Final	Revision: 1	Page Size: A3
Drawn: RS	Reviewed: DM	Date: 15/11/2022
Perth: Inveralmond Business Glasgow: 54 C Nottingham: 16 Commerce WWW.	GAVIA environmental	Telephone: 1738 718 685 141 401 0699 Telephone: 0115 695 0692 I.CO.UK



Appendix C Survey Location Photographs

Survey Location	Downstream facing Upstream	Upstream facing Downstream
Uise 1		
Uise 2		
Uise 3		
Uise 4		

Uisenis Wind Farm Fish Habitat Survey Report







Appendix D Eisgein Habitat Survey - Uise 1

SFCC HABITAT SURVEY VERSION 3.0 NOVEMBER 2013															
GENERAL IN	FORM	ATION													
ID Uise 1	River	Abl	nainn Gł	las			Alt	titude (m))	20		Date		31.10.202	2
DownstE (m)			Downs	tN (m)			Co	onductivit	ty	93					
			- 1	Wat	ter level			С	ircle	ONE:	Dry /	Low /	ow / Medium		
Surveyor	Namo	· Daul H	opper				Propr	ietors						/	
-	Accre	ditation	Code:	Notes II				U/S and of Site Co-ordinates: 132340 914889							
	ТА					-	110								1000
CHANNEL DA	AIA		_			_		1		_	_	_			
Wet width (m)	3.1	Bed w	idth (m)	3.1	Ban	ik width	(m)	3.1	M	ature i	slands(I	n)		0	
0-20 cm	0 (% OF	SURVEY	21-40	CH WE	5	REA)	/1	-80 cm	1	0		>80	cm	85	
SUBSTRATE (%			RETCH	WETTE)	41	-00 CIII	1	U		>00	ciii	05	
HO 50 SI	0	SA	0	GR	0	PE	0	со	50	в	0 0	BE	0	ОВ	0
Instream veg (%)	,	25	Silt	ed?	? Y / N In					Iron	deposit	s (%)	0	LWD	0
Substrate	Ci	rcle ONE	E of EAC	H: (Stable) Unstable AND Compacted						ed / Pa	artly / Unc	ompac	ted	<u> </u>	
Substrate notes						/				•			•		
CHANNEL FEATURES (% OF SURVEY STRETCH LENGTH)															
Braided channels (%) 0 Braids stable? Y / N NA															
Channel feature	notes														
FLOW (% OF SU	RVEY S	TRETCH	I WETTE	D ARE	A)										
SM 0	DP	100	SP	0	DG	0	SG	0		RU	0	RI	0	то	0
Flow notes															
CANOPY COVER	R (% OF	SURVE	Y STRE	CH WE	TTED AF	REA)									
Canopy cover (%	b) 0		Canop	y cover	notes										
LEFT BANK (lookin	ig DOV	VNSTR	EAM)											
BANKSIDE FISH	COVER	R (% OF I	BANK L	ENGTH))										
Fish Cover (%)		100	Ту	be	Circle Al	NY: DR) ma (<mark>r</mark>	T) F	rk / 0 [.]	ТН			OR	NONE
Cover Notes															
GENERAL BANK	SIDE S	TATUS (% OF B	ANK LE	NGTH)								-		
Riparian buffer z	one (m))	Gra but	izing in fer zon	tensity (I e)	bankfac	8	C	ircle	ONE:	None	/ Light (Modera	ate / Inter	se
Grazers (bankfac	ce & but	ffer zone	:)			С	ircle /		er)	Livest		abbits OI	R Nor	ne	
Grazing exclusion feature(s) preser	n nt D	eer fence	e / Stocł	(fence /	Circle A Wall / He	ANY OR edge / Ra	'None abbit r	ə': nesh / Otl	her .	C	DR Non	Exclu requi	usion u ired (m	upgrade 1)	
Predominant bar	nkface v	/egetatio	on			Circ	le ON	IE: Bare	/ U	niform	/ <mark>Simpl</mark>	e)/ Comp	lex		
Predominant buf	fer zon	e vegeta	tion			Circ	le ON	IE: Bare	/ U	niform	/(Simple	e)/ Comp	lex		
Collapse (%)	Sever	e: I	Moderat	e:	Light:		Eros	sion (%)		Seve	re:	/ Moderate	:	. Light:	
Trampling (%)	Sever	e: I	Moderat	e:	Light:		Ban	kside not	tes	No co	ollapse,	erosion	or tran	pling at s	site
Side bars (%)	0	Side	bars sta	able?	Y / N		Poin	nt bars (%	6)	0	Po	int bars s	table?	Y / N	1 / <mark>NA</mark>)
RIPARIAN ZONE										1					<u> </u>
Overhanging boughs (% of bank length - trees and shrubs) 0 Predominant overhanging trees Circle ONE: Deciduous / Evergreen / None															



Predominant land (50m from banktop	use) AR / BL	Circle ONE: / CP / FW / GP / IG / IN (MH) NC / OR / OW / RD / RP / RS / SC / SU / TH / TL / WL									
Other land uses (50m from banktop)	Circle ANY (EXCLUDING category already circled above) OR 'NA': AR / BL / CP / FW / GP / IG / IN / MH / NC / OR / OW / RD / RP / RS / SC / SU / TH / TL / WL										
Presence of young	plantations	Circle ANY: Deciduous / Coniferous / Mixed OR None									
Conifer planting: F	&W guidelines?	Y / N / NA Riparian notes									

POLL	.υτι	ON, C)BST	ACLES,	MODI	FICATI	ONS AN	ID SPAW	NINC	G CONT'L	D	PAC	GE		
ID	Uise	1	Rive	er Ab	hainn G	ihlas					Date	31.10	0.2022		
POLL	UTI	ON P(OINT	S							_	_			_
ID				Easting				Northing				Tin	ne		
Туре	Ci	rcle ON	IE: FE	E/FR/II	N/RD	/SE/SD) / ?? / 0	тн		Status Potential /					
Dead f	ish?	h? Y/N Photos Contact							ct						
Notes					_										
ID				Easting				Northing				Tin	ne		
Туре	Ci	rcle ON	IE: FE	E/FR/II	N / RD	/SE/SD) / ?? / 0	TH				Status	Pote	ential /	Actual
Dead f	ish?	Y	′ / N	Photos				Conta	ct						
Notes															
OBS1		LES													
ID			Ea	asting		- ANY-				Northing		~			
Туре	BR	R / CU /	DA /	FC / FD / F	S / FT /	e ANY: GC / WE	/ WF/ W	G / OTH		Pass?	No (U/[C)) / No (l	J) / Yes	NE: s (S/F) / `	Yes/??
Vertica	al?	Y / N /	/ NA	EF requ	ired?	Y / N	Photo	s		Conta	ict				
Notes															
ID			Ea	asting						Northing					
Туре	BR	R/CU/	DA /	FC / FD / F	Circle S / FT /	e ANY: GC / WE	/WF/W	G / OTH		Pass?	No (U/[C i D) / No (l	i rcle ON J) / Yes	IE: s (S/F) / `	Yes/??
Vertica	al?	Y / N /	/ NA	EF requ	ired?	Y / N	Photo	s		Conta	ict				
Notes															
CHAN	NNE	L / BA		MODIFIC		NS									
ID			Ea	asting		No	orthing			Location	Cir	cle ANY:	Left Bk	/ Right E	3k / Bed
Туре	CE) / CR /	CW/	FP / GA / ŀ	Circl HP / PI	e ANY: / RE / RR	/ SN / UC	/ OTH		Effectiver	ness	Effective	Circle / Ineffe	e ONE: ective / N	ot known
Downs	strear	n effec	t ?	Y / N	Appro	x. age	/ 1	Not known	Pre	vious attem	pts	0 / 1	/ 2 /	>2 / No	ot known
Length	n (m)			Photos				Contact							
Notes	_														
ID	-		Ea	asting	Circl		orthing			Location	Cir	cle ANY:	Left Bk	/ Right	Bk / Bed
Туре	CD) / CR /	CW /	FP / GA / ł	HP / PI /	/ RE / RR	/ SN / UC	/ OTH		Effectiver	ness	Effective	/ Ineffe	ective / N	ot known
Downs	strear	n effec	t ?	Y / N	Appro	x. age	/ 1	Not known	Pre	vious attem	pts	0 / 1	/ 2 /	>2 / No	ot known
Length	n (m)			Photos				Contact							



Notes												
SPAWNING LOCATIONS												
ID	Easting	Northing		Area (m2)	Useable (%)							
Suitability (G/P)	SA TR	Washout?	Y / N / ?	Notes								
ID	Easting	Northing		Area (m2)	Useable (%)							
Suitability (G/P)	SA TR	Washout?	Y / N / ?	Notes								
ID	Easting	Northing		Area (m2)	Useable (%)							
Suitability (G/P)	SA TR	Washout?	Y / N / ?	Notes								
POLLUTION, C	BSTACLES, MODIF	ICATIONS	AND SPAWN	ING CONT'	D ON PAGE							

POLL	UTION	I, OBST	ACLES, I	NODIFICAT	IONS AN	ID SPAW	NING	CONT	'D	PAG	E	
ID	Uise 1	Rive	er Abha	ainn Ghlas					Date	31.10	.2022	
POLL	UTION		S									
ID			Easting			Northing				Tim	e	
Туре	Circle	ONE: FF	E/FR/IN	/RD/SE/S	D / ?? / O	тн				Status	Potential /	Actual
Dead fi	sh?	Y/N	Photos			ct						
Notes												
ID			Easting			Northing				Tim	e	
Туре	Circle	ONE: FE	E/FR/IN	/ RD / SE / S	D / ?? / O	тн				Status	Potential /	Actual
Dead fi	sh?	Y / N	Photos			Conta	ct					
Notes												
OBST	ACLE	S										
ID		E	asting					Northing	,			
Туре	BR / C	:U/ DA/	FC / FD / FS	Circle ANY: / FT / GC / W	E/WF/W	G / OTH		Circle ONE: Pass? No (U/D) / No (U) / Yes (S/F) / Yes /				
Vertica	I? Y	/ N / NA	EF require	ed? Y / N	Photo)S		Contact				
Notes												
ID		E	asting					Northing	,			
Туре	BR/C	U/DA/	FC / FD / FS	Circle ANY: FT/GC/W	E/WF/W	G / OTH		Pass?	No (L	Cir J/D) / No (U	r cle ONE:) / Yes (S/F) / Ye	es / ??
Vertica	I? Y	/ N / NA	EF require	ed? Y / N	Photo	IS	_	Cont	act			
Notes												
CHAN	INEL /	BANK	MODIFICA	ATIONS								
ID		E	asting	N	lorthing			Location	C	ircle ANY: I	_eft Bk / Right Bk	/ Bed
Туре	CD/C	CR/CW/	FP / GA / HF	Circle ANY: P/PI/RE/RF	R/SN/UC	/ OTH		Effective	ness	Effective /	Circle ONE: Ineffective / Not	known
Downs	tream e	ffect ?	Y / N /	Approx. age	/ ٢	Not known	Prev	vious atten	npts	0/1/	2 / >2 / Not	known
Length	(m)		Photos		-	Contact				•		



Notes														
ID			Easting		Nor	thing			Locatio	on C	Circle ANY: Left Bk / Right Bk / Bed			
Туре	CD /	CR / CW	/ / FP / GA	Circle / HP / PI / F	ANY: RE / RR / \$	SN / UC	/ OTH		Effectiv	veness	Effecti	Circle ON ive / Ineffective	E: / Not known	
Downst	tream e	effect ?	Y / N	Approx.	. age / Not known Pr				vious att	empts	0 /	1 / 2 / >2	Not known	
Length	(m)		Photos				Contact							
Notes														
SPAW	/NING	LOC/	ATIONS											
ID		E	asting		Northin	g		A	rea (m2)			Useable (%)		
Suitabi	lity (G	/P) S	A	TR	Washou	ut?	Y / N / ?	1	Notes					
ID		E	asting		Northin	g		А	rea (m2)			Useable (%)		
Suitabi	lity (G	/P) S	A	TR	Washou	ut?	Y / N / ?	1	Notes					
ID		E	asting		Northin	g		А	rea (m2)			Useable (%)		
Suitabi	lity (G	/P) S	A	TR	Washou	ut?	Y / N / ?	1	Notes					
POLL	υτιοι	N, OBS	STACLE	S, MODIF	ICATIO	NS AN	ID SPAW	NINC	G CONT	"D ON	PAGE			



Appendix E Eisgein Habitat Survey - Uise 2

SFCC HABITAT SURVEY VERSION 3.0 NOVEMBER 2013																
GENERAL I	NFOR	RMATIC	ON													
ID Uise 2	Riv	ver	Abhain	n Scrihas	cro			Alti	itude (m))	46		Date		31.10.20	22
DownstE (m)			Do	wnstN (r	n)			Со	nductivit	ty	80					
					Water	level			Circl	e Ol	NE: Dry / Low / Medium/ High					
Surveyor	Name	• Paul F	lonner				P	ropri	etors			-				
	Accre	editation	Code:		Notes II				U/S end of Site Co-ordinates: 131571 913678							
CHANNEL D	ΔΤΑ															
Wet width (m)	1.3	Bec	d width	(m) 1	3	Bank	width (m)	18	M	ature is	slands(n)		0	
WATER DEPTH	HS (% 0		/EY ST	RETCH	WETT	ED ARE	A)	,	1.0			Janao(i	.,		ů.	
0-20 cm	0		2	1-40 cm	90	0	-	41	-80 cm	1	0		>80	cm	0	
SUBSTRATE (SUBSTRATE (% OF SURVEY STRETCH WETTED AREA)															
HO 0 5	SI	0 5	SA	0 G	R	5 F	PE	25	со	50	вс	20	BE	0	ОВ	0
Instream veg (%)	40		Silted?		Y	/	N)		Iron o	deposit	s (%)	0	LWD	0
Substrate		Circle C	ONE of	EACH:	<u>s</u>	table /	Unsta	ble	AND	Co	ompact	ed / Pa	artly / Uno	compac	cted	
Substrate note	s														-	
CHANNEL FEATURES (% OF SURVEY STRETCH LENGTH)																
Braided channels (%) 0 Braids stable? Y / N / NA																
Channel featur	e note	s														
FLOW (% OF S	URVE	Y STRET	CH WE	ETTED A	REA)							Г			-	
SM 0	DP	0	SF	P 10		DG	0	SG	70		RU	10	RI	10	то	0
Flow notes																
CANOPY COVI	ER (% (OF SUR	VEY ST	RETCH	WETT	ED ARE	A)									
Canopy cover	(%)	0	Ca	nopy co	ver no	tes										
LEFT BANK	(look	king DO	OWNS	STREA	M)											
BANKSIDE FIS	SH COV	/ER (% C	OF BAN	IK LENG	TH)			\frown								
Fish Cover (%))	100		Туре	Cir	cle ANY	': DR (」 /(RK)/ 01	ГН			OR	NONE
Cover Notes		OTAT								_						
GENERAL BAN	NKSIDE	ESTATU	IS (% C	OF BANK	LENG	FTH)	nkfeer	0								
Riparian buffer	r zone ((m)	0	buffer z	one)	isity (ba	inclace	α	C	ircle	ONE:	None	/ (Light)/	Modera	ate / Inte	nse
Grazers (bankf	face & I	buffer zo	one)				Ci	rcle A		er)	(Livest	<mark>ock</mark>)/ F	Rabbits O	R Nor	ne	
Grazing exclus feature(s) pres	sion ent	Deer fe	ence/S	Stock fen	C ce / Wa	i rcle AN all / Hedg	l Y OR ' ge / Ra	None bbit m	': nesh / Otł	her	C	R Non	Excl requ	usion ired (n	upgrade n)	
Predominant b	ankfac	e vegeta	ation				Circl	e ON	E: Bare	/ Uı	niform	Simpl	e)/ Comp	olex		
Predominant buffer zone vegetation Circle ONE: B										/ Uı	niform	Simple	e)/ Comp	olex		
Collapse (%)	Sev	vere:	Mod	erate:	Li	ght:		Eros	ion (%)		Seve	re:	Moderate):	. Light:.	
Trampling (%)	Sev	vere:	Mod	erate:	Li	ght:		Bank	side not	es	No co	ollapse,	erosion	or tran	npling at	site
Side bars (%)		0 S	ide bar	s stable	? Y	/ N /	NA)	Poin	t bars (%	5)	0	Po	oint bars	stable	? Y/	n / <mark>NA</mark>
RIPARIAN ZON	NE															
Overhanging b length - trees a	Overhanging boughs (% of bank length - trees and shrubs) 0 Predominant overhanging trees Circle ONE: Deciduous / Evergreen / None															



Predominant land (50m from banktop	use) AR / BL	Circle ONE: / CP / FW / GP / IG / IN / MH / NC / OR / OW / RD / RP / RS / SC / SU / TH / TL / WL
Other land uses (50m from banktop)	AR / BL / CP / F	Circle ANY (EXCLUDING category already circled above) OR 'NA': W / GP / IG / IN / MH / NC / OR / OW / RD / RP / RS / SC / SU / TH / TL / WL OR NA
Presence of young	plantations	Circle ANY: Deciduous / Coniferous / Mixed OR None
Conifer planting: F	&W guidelines?	Y / N / NA Riparian notes

ID	Uise 2		River	Abhain	in Scriha	scro				ſ	Date	31.10.	2022		
RIGH	T BAN	K (lo	okinę	g DOWN	ISTRE	AM)									
BANKS	SIDE FIS	н со	VER (%	% of Ban	IK LENG	GTH)		\sim							
Fish Co	over (%))	1	00	Туре	Circle A	ANY: DR	(UC)/MA /	RT /F	к / от	Н			OR	NONE
Cover I	Notes							-							
GENER	RAL BAI	NKSID	DE STA	TUS (% C		(LENGTH)						\frown			
Riparia	an buffe	r zone	e (m)	0	Grazin buffer	g intensity zone)	(bankfac	e &	Circle (ONE :	None /	Light //	Modera	ate / Inte	ense
Grazers	s (bank	face 8	buffer	r zone)			C	Circle ANY:	Deer	Livesto	<mark>ck</mark> / R	abbits O	R None	e	
Grazing feature	g exclus e(s) pres	sion ent	Deer	r fence / S	Stock fer	Circle nce / Wall / I	ANY OR Hedge / R	. 'None': abbit mesh / (Other	01	R (None	Excl requ	usion u iired (m)	pgrade)	0
Predon	ninant b	ankfa	kface vegetation Circle ONE: Bare / Uniform (Simple) Complex												
Predon	ninant b	ouffer	zone v	egetation	l l		Cire	cle ONE: Bar	re / Ur	niform /	Simple) / Com	olex		
Collaps	se (%)		Severe	e: Mo	oderate:	Ligh	nt:	Erosion (%)	Severe	e: N	loderate) :	Light:	
Trampl	ling (%)		Severe	e: Mo	oderate:	Ligh	nt:	Bankside n	notes	No Co	llapse,	Erosion	or Tran	npling at	site
Side ba	ars (%)		0	Side bar	s stable	Y/Y	N (NA)	Point bars	(%)	0	Poi	nt bars	stable?	Y / N	1 / <mark>NA</mark>) 1
RIPARI	IAN ZON	NE													
Overha length	anging b - trees a	oough and sl	s (% o nrubs)	of bank	0	Predo	minant o	verhanging t	rees		Decidu	Circle ous / E	e ONE: vergreer	n / (None)
Predon (50m fr	ninant la rom ban	and us ktop)	se	AR / BL	/ CP /	FW/GP/	IG/IN	Circle MH) / NC / O	e ONE: R / OV	V/RD	/ RP / I	RS / SC	/SU/	TH / TL	/ WL
Other la (50m fr bankto	and use om p)	s	AR / E	BL / CP /	Cir / FW / G	r cle ANY (E iP / IG / IN	XCLUDIN / MH / N	IG category a C / OR / OW	already / / RD	/ circled / RP / F	l above RS / SC) OR 'N/ C / SU /	\': TH / TL	. / WL (DR <mark>NA</mark>
Presen	ice of yo	oung p	olantati	ions		Circ	le ANY:	Deciduous	/ C	oniferou	s /	Mixed	OR 🚺	lone)	
Conifer	r plantin	ng: F&	W guid	delines?	Y,	/ N / NA	Ripari	an notes					•		
PART	E: PH	ΙΟΤΟ)GRA	PHS											
PART	⁻ F: PO	LLU	TION	POINTS	S										
ID			E	asting			No	orthing				Time	•		
Туре	Circle	ONE	: FE /	FR / IN	/ RD / S	E / SD / ?	? / OTH .				St	atus	Poten	tial /	Actual
Dead fi	ish?	Y / I	N F	Photos				Contact							
Notes							Ν	lo Pollution Po	oints						
PART	G: OE	BSTA		S											
ID			East	ing					Nort	hing					
Туре	BR/C)A / FC	/ FD / FS	Circle A /FT/G	ANY: ic / we / w	F/WG/(ОТН НТС	Pass	s? N	o (U/D)	Cir / No (U)	cle ONE	: S/F) / Ye	es/??
Vertica	I? Y	/ N / N	IA E	EF require	ed?	Y / N I	Photos			Contact		(-)	(,	
Notes								No Obstacles	s						



PART	H: C	HANNI	EL / B <i>i</i>	۹NK		CATIO	ONS								
ID			Easting	3		No	rthing			Locati	on	Circle AN	Y: Left Bk	/ Rig	ht Bk / Bed
Туре	CD /	CR/CW	//FP/(GA/F	Circle A HP / PI / RE	ny: E / RR /	SN/UC	/ OTH		Effecti	venes	s Effecti	Circle ve / Ineffe	e ONE ective /	: Not known
Downst	Downstream effect ? Y / N Approx. age / Not known Previous attempts 0 / 1 / 2 / > 2 / Not known														Not known
Length	(m) Photos Contact														
Notes	No Channel or Bank Modifications														
PART	I: SP	AWNII	NG LO	CAT	FIONS										
ID Ui	se 2 (a)) E g	astin	1315	583	Northi	ng 91	3673	Ar	ea (m2)	6		Useable	(%)	55
Suitabi	lity (G	/P) S	A(<mark>Y</mark> ,)	TF	RY	Washo	out?	Y / <mark>N</mark> ?	Ν	lotes		I	Photos tak	en	
POLL	υτιοι	N, OBS	STACL	.ES,	MODIFI	CATIC	ONS AN	ID SPAW	NING	CON	T'D O	N PAGE	3		

POLL	UTION	I, OBST	racles, i	MODIFICAT	IONS AN	ID SPAW	NING	G CONT	'D	PAG	iE
ID	Uise 2	Riv	er Abh	ainn Scrihascro)				Date	a 31.10	.2022
POLL	UTION		ſS								
ID			Easting			Northing				Tim	ie
Туре	Circle	ONE: FI	E/FR/IN	/ RD / SE / S	D / ?? / O	тн				Status	Potential / Actual
Dead fi	sh?	Y / N	Photos			Conta	ct				
Notes									_		
ID			Easting			Northing				Tim	ie
Туре	Circle	ONE: FI	E/FR/IN	/ RD / SE / S	D / ?? / O	ТН				Status	Potential / Actual
Dead fi	sh?	Y / N	Photos			Conta	ct				
Notes											
OBST	ACLE	s									
ID		E	asting					Northing	,		
Туре	BR/C	CU/DA/	FC / FD / F	Circle ANY: 3/FT/GC/W	E/WF/W	G / OTH		Pass?	No (L	Ci i J/D) / No (U	r cle ONE: J) / Yes (S/F) / Yes / ??
Vertica	I? Y	/ N / NA	EF requir	red? Y / N	Photo	s		Cont	act		
Notes											
ID		E	asting					Northing	,		
Туре	BR / C	CU/DA/	FC / FD / F	Circle ANY: S/FT/GC/W	E/WF/W	G / <u>OTH</u>		Pass?	No (L	C ii J/D) / No (U	r cle ONE: I) / Yes (S/F) / Yes / ??
Vertica	I? Y	/ N / NA	EF requir	'ed? Y / N	l Photo	IS		Cont	act		
Notes											
CHAN	INEL /	BANK	MODIFIC	ATIONS							
ID		E	asting	٨	lorthing			Location	C	ircle ANY:	Left Bk / Right Bk / Bec
Туре	CD/C	CR/CW/	FP / GA / H	Circle ANY: P / PI / RE / RF	R/SN/UC	/ OTH		Effective	ness	Effective	Circle ONE: / Ineffective / Not known
Downs	tream e	ffect ?	Y / N	Approx. age	1 / ٢	Not known	Prev	vious atten	npts	0 / 1 /	2 / >2 / Not known
Length	(m)		Photos			Contact					



Notes														
ID			Easting		North	ing			Locatio	on C	ircle AN	Y: Left Bk /	Right Bk / Bed	
Туре	CD /	CR / CV	V / FP / GA	Circle	ANY: RE / RR / SI	۷/UC	/ OTH		Effectiv	veness	Effecti	Circle O ve / Ineffectiv	NE: /e / Not known	
Downst	tream e	effect ?	Y / N	Approx	age	/ 1	Not known	Prev	vious att	empts	0 /	1 / 2 / >2	/ Not known	
Length	(m)		Photos				Contact							
Notes														
SPAW	SPAWNING LOCATIONS													
ID		E	asting		Northing			А	rea (m2)			Useable (%)	
Suitabil	lity (G	/P) S	SA	TR	Washout	?	Y / N / ?	ſ	Notes				·	
ID		E	asting		Northing			А	rea (m2)			Useable (%)	
Suitabil	lity (G	/P) S	SA	TR	Washout	?	Y / N / ?	1	Notes					
ID		E	asting		Northing			А	rea (m2)			Useable (%)	
Suitabil	lity (G	/P) \$	SA	TR	Washout	?	Y / N / ?	1	Notes					
POLL	υτιοι	N, OB	STACLE	S, MODIF	ICATION	S AN	ID SPAW	NINC	G CONT	"D ON	PAGE			



Appendix F Eisgein Habitat Survey - Uise 3

		SFC	C HAE	BITAT	r surv	/EY VE	RSIC	ON 3.0 I	101	/EMBI	ER 20	13			
GENERAL IN	FORM	ATION													
ID Uise 3	River	Allt C	heotha	dail			Alt	titude (m)	20		Date		31.10.202	22
DownstE (m)			Downst	N (m)			Co	nductivi	, tv	82					
				Wa	ter level			Circ	le Ol	NE: D	rv / Lo	w / Med	lium 🖉	High	
Surveyor	Name	Daviddar					Propr	ietors			.,			<u> </u>	
our royor	Name:	Paul Hop	per ode:				No	101010		U/S and		oo ordin	otoo	120702 04	12472
	_					_	NO	les			I OI SILE		ales.	130703 9	2472
CHANNEL DA	ATA												_		
Wet width (m)	1.5	Bed wid	th (m)	1.5	Bar	nk width	ı (m)	2.6	M	ature is	lands(r	n)		0	
WATER DEPTHS	ः (% OF \$	SURVEY S	STRET	CH WE	TTED A	REA)	_	-					-		
0-20 cm	10		21-40	cm	55	、 、	41	-80 cm	3	35	_	>80	cm	0	
SUBSTRATE (%						DE	15	00	20	BO	50	BE	5	OB	0
		54		GI	10)	20				5	00	U
Instream veg (%))	0	Silte	ed?		Y /)		Iron d	leposite	s (%)	0	LWD	0
Substrate	Cir	cle ONE d	of EACI	1:	Stable		table	AND	C	ompacte	ed / Pa	artly / Unc	ompac	ted	
Substrate notes							_	_	_	_	_		_	_	
CHANNEL FEAT	URES (%		VEY ST	RETC		TH)		D		. eteklei	2		X / N		
Braided channel	s (%)				U			В	raids	s stable	<i>'</i>		Y / P		
Channel feature	notes	DETCU	NETTE		•	_	_	_		_	_	_	_	_	
SM 0				D ARE		0	SG	20		RU	0	RI	15	то	65
			JF	U	00	U	30	20		NO	U	N	15		00
CANOPY COVER	8 (% OF 9	SURVEY	STRFT	CH WE		RFA)									
Canopy cover (%	b) 0	(Canopy	cover	notes										
LEFT BANK (lookin		NSTRI	EAM)											
BANKSIDE FISH	COVER	(% OF B/	ANK LE	ŃGTH)										
Fish Cover (%)		100	Тур	e	Circl	e ANY:		JC)/ MA	/ R1	г / <mark>RK)</mark> /	<mark>(отн</mark>).	<mark>Culv</mark>	ert	. OR NO	NE
Cover Notes							\smile	<u> </u>		\sim	\sim				
GENERAL BANK	SIDE ST	ATUS (%	OF BA	NK LE	ENGTH)										
Riparian buffer z	one (m)	0	Graz buff	zing in er zon	itensity (e)	bankfac	e &	c	ircle	ONE:	None	/ Light I	Modera	ate / Inter	ıse
Grazers (bankfac	ce & buff	er zone)				(Circle		er)	Livesto	ock) R	abbits O	R Nor	ne	
Grazing exclusion feature(s) preser	on ht De	eer fence /	Stock	fence	Circle / Wall / H	ANY OR edge / R	t 'None tabbit r	e': nesh / Ot	her .	0	R None	e requi	usion (ired (n	upgrade n)	
Predominant bar	nkface v	egetation				Cir	cle ON	IE: Bare	/ U	niform /	Simple	Comp	lex		
Predominant but	fer zone	vegetatio	on			Cir	cle ON	IE: Bare	/ U	niform /	Simple	Comp	lex		
Collapse (%)	Severe	Mo	oderate	:	Light:		Eros	sion (%)		Sever	e: I	Moderate	:	. Light:	
Trampling (%)	Severe	Mo	oderate	:	Light:		Ban	kside not	tes	No Co	ollapse,	Erosion	or Tra	mpling a	t site
Side bars (%)	0	Side b	ars sta	ble?	Y / N	(NA)	Poin	t bars (%	6)	0	Ро	int bars s	table	? Y/N	√ (<mark>NA</mark>)
RIPARIAN ZONE	1														
Overhanging boo length - trees and	ughs (% d shrubs	of bank)	Predom	ninant o	verhar	nging tre	es		Decidu	Circle Jous / Ev	ONE:	en (None	



Predominant land (50m from banktop	use) AR / BL	Circle ONE: CP / FW / GP / IG / IN (MH) NC / OR / OW / RD / RP / RS / SC / SU / TH / TL / WL
Other land uses (50m from banktop)	AR / BL / CP / F	Circle ANY (EXCLUDING category already circled above) OR 'NA': W / GP / IG / IN / MH / NC / OR / OW / RD / RP / RS / SC / SU / TH / TL / WL OR NA
Presence of young	plantations	Circle ANY: Deciduous / Coniferous / Mixed OR None
Conifer planting: F	&W guidelines?	Y / N (NA) Riparian notes

ID	Uise	3	Rive	r Allt	Cheoth	nadail						Da	ite	31.10.20	22		
RIG	HT BA	ANK (I	ooki	ng DO\	NNS 1	FREAI	M)										
BANK	SIDE	FISH C	OVER	. (% OF E	ANK L	ENGT	H)		-								
Fish (Cover	(%)		80	Ту	pe	Circ	cle ANY:		/ RT	/ <mark>RK</mark>)	<mark>Culvert</mark> .		OR NO	ONE
Cove	r Notes	s															
GENE	RAL E	BANKS	DE S	TATUS (% OF E	BANK L	ENGT	H)						\sim			
Ripar	ian bu	ffer zor	ne (m)	0	Gr bu	azing i	ntensi ne)	ty (bankfad	e &	Circle	e ONE	: N	one /(I	<mark>_ight</mark>)/ №	loderate	e / Inte	nse
Graze	ers (ba	nkface	& buf	fer zone)					Circle ANY:	Deer)/ (<mark>Liv</mark>	estoc)/ Rab	bits OR	None		-
Grazi featu	ng exc re(s) p	clusion resent	De	eer fence	/ Stoc	k fence	Circ / Wall	/ Hedge / F	t 'None': Rabbit mesh /	Other		OR(None	Exclus require	sion up ed (m)	grade	0
Predo	ominar	nt bank	face v	egetatio	า			Cir	cle ONE: Ba	ire / l	Unifor	m / 🥵	imple) Comple	x		
Predo	ominar	nt buffe	r zone	e vegetat	ion			Cir	cle ONE: Ba	ire / l	Jnifor	m /	imple	Comple	ex		
Colla	pse (%	»)	Seve	ere:	Mode	rate:	Li	ght:	Erosion (%	6)	Se	vere:	Мо	derate:	L	ight:	
Tram	pling (%)	Seve	ere:	Mode	rate:	Li	ght:	Bankside	notes	No	Colla	apse, E	rosion o	r Tramp	oling at	site
Side I	bars (%	%)	0	Side	bars s	table?	Υ/	' N / <mark>NA</mark>	Point bars	(%)		0	Point	bars sta	able?	Y / N	/NA
RIPA	RIAN Z	ONE															
Overh lengti	nangin h - tree	g boug es and s	hs (% shrub	5 of bank s)		0	Prec	lominant o	verhanging	trees		D	eciduou	Circle C Is / Eve	DNE: rgreen	(None)
Predo (50m	ominar from b	nt land (banktop	use)	AR /	BL /C	CP/FV	/ / GP	/ IG / IN /	Circl MH)/ NC / C	e ONI DR / C	E: DW/F	RD / F	RP/RS	5 / SC /	SU / TH	+ / TL /	/ WL
Other (50m bankt	from from	uses	AR	/BL /C	P/FV	Circle / / GP	e ANY / IG / I	(EXCLUDII N / MH / N	NG category	alrea V / RI	dy cir o D / RF	cled a P / RS	ibove) (S / SC) or 'NA': / SU / TH	H / TL .	WL O	
Prese	nce of	f young	plant	ations			Ci	rcle ANY:	Deciduous	/	Conife	erous	/ M	ixed O	R (No	ne	
Conif	er plar	nting: F	&W g	uidelines	?	Y / N	1 / <mark>NA</mark>	Ripar	ian notes						_		
PAR	T E: I	рнот	OGR	APHS													
PAR	T F: I	POLLI	JTIO	N POIN	ITS												
ID				Easting	1			N	orthing					Time			
Туре	Cir	cle ON	E: FE	/FR /	N / RI	D / SE	/ SD /	?? / OTH					Stat	us	Potentia	al / /	Actual
Dead	fish?	Y/	'N	Photos					Contact								
Notes	;																
PAR	TG:	OBST	ACL	ES													
ID	Uis	se 3(a)	Ea	sting	13	0798				No	rthing	9	912441				
Туре	BR	ε / <mark>CU</mark> γι	DA / F	C/FD/I	Cir S / FT	cle AN / GC /	Y: WE / V	VF/ WG / O	TH	Pa	ss?	No	(U/D) /	Circle No (U) /	e ONE: Yes (S/	'F) / (<mark>Ye</mark>	s)/ ??
Vertic	al?	Y(N)	NA	EF req	uired?	Y	/(N)	Photos	Yes		Cont	tact	,				-



Notes		Culvert fo	r footpath. (E	F not required	d as fish have b	een fo	und when	previous	sly surve	yed) Pho	tos take	en			
PART	H: CHAN	NEL / BAI	NK MODIF	ICATIONS											
ID		Easting		Northin	g		Locatio	n Ci	ircle AN	Y: Left B	k / Rig	ht Bk / Bed			
Туре	pe Circle ANY: Circle ONE: Effectiveness Circle ONE: Effective / Ineffective / Not known														
Downst	Downstream effect ? Y / N Approx. age / Not known Previous attempts 0 / 1 / 2 / >2 / Not known														
Length	ength (m) Photos Contact														
Notes															
PART	I: SPAW	NING LOC	ATIONS												
ID Ui	se 3 (b)	Eastin 1	30801	Northing	912428	А	rea (m2)	3		Useable	e (%)	15			
Suitabi	lity (G/P)	SA. (Y)	TR. <mark>Y</mark>	Washout?	Y N / ?	1	Notes		F	Photos tal	ken				
POLL	UTION, O	BSTACLE	S, MODIF	CATIONS	AND SPAW	NINC	G CONT	'D ON	PAGE	3					

POLL	UTION	, OBS	TACLES,	MODIFICATI	ONS ANI	D SPAWI	NING	G CONT	"D		PAGE		
ID	Uise 3	Rive	r Allt	Cheothadail					Dat	te	31.10.202	22	
POLL	UTION	POIN	TS										
ID			Easting			Northing					Time		
Туре	Circle	ONE: F	E/FR/I	N / RD / SE / SE) / ?? / OT	н				Sta	tus	Potential /	Actual
Dead fis	sh?	Y / N	Photos			Conta	t						
Notes													
ID			Easting			Northing					Time		
Туре	Circle	ONE: F	E/FR/I	N / RD / SE / SE) / ?? / OT	Н				Sta	tus	Potential /	Actual
Dead fis	sh?	Y / N	Photos			Conta	t						
Notes													
OBST	ACLES	6											
ID		E	Easting					Northin	g				
Туре	BR / C	U/DA	/ FC / FD / F	Circle ANY: S/FT/GC/WE	/ WF/ WG	6 / OTH		Pass?	No (U/D) /	Circle No (U) /	ONE: Yes (S/F) / `	Yes / ??
Vertical	I? Y/	N / NA	EF requ	ired? Y / N	Photos	5		Con	tact				
Notes													
ID		E	Easting					Northin	g				
Туре	BR / C	U/DA	/ FC / FD / F	Circle ANY: S/FT/GC/WE	/ WF/ WG	6 / OTH		Pass?	No (U/D) /	Circle No (U) /	ONE: Yes (S/F) / `	Yes / ??
Vertical	I? Y/	N / NA	EF requ	ired? Y / N	Photos	;		Con	tact				
Notes													
CHAN	INEL /	BANK	MODIFIC	CATIONS									
ID		E	Easting	N	orthing			Locatio	n C	ircle /	ANY: Left	Bk / Right E	3k / Bed
Туре	CD / C	R/CW	/ FP / GA / I	Circle ANY: HP / PI / RE / RR	/ SN / UC /	отн		Effectiv	eness	Effe	Ci ective / In	ircle ONE: effective / N	ot known
Downst	tream ef	fect ?	Y / N	Approx. age	/ N	ot known	Prev	vious atte	mpts	0	/ 1 / 2	/ >2 / No	ot known



Length	(m)		Phot	tos				Contact						
Notes														
ID			Eastin	g		N	orthing			Locatio	on C	Circle ANY: Left Bk / Right Bk / Bed		
Туре	CD /	CR/CV	V/FP/	GA / I	Circle / HP / PI / F	ANY: Re / RR	/ SN / UC	C / OTH		Effectiv	/eness	Circle ONE: Effective / Ineffective / Not known		
Downst	tream	effect ?	Υ/	N	Approx.	age	/	Not known	Prev	vious atte	empts	0 / 1 / 2 / >2 / Not known		
Length	(m)		Phot	tos				Contact						
Notes														
SPAW	SPAWNING LOCATIONS													
ID		Ea	sting			North	ing		Ar	ea (m2)		Useable (%)		
Suitabil	lity (G	i/P)	SA	TR	l	Wash	out?	Y / N / ?	Ν	lotes				
ID		Ea	sting			North	ing		Ar	rea (m2)		Useable (%)		
Suitabil	lity (G	6/P)	SA	TR	1	Wash	out?	Y / N / ?	N	lotes				
ID		Ea	sting			North	ing		Ar	rea (m2)		Useable (%)		
Suitability (G/P) SA TR Washout? Y / N / ? Notes														
POLL	υτιο	N, OB	STAC	LES,	MODIF	ICATI	ONS A	ND SPAW	'NING	G CONT	"D ON	I PAGE		



Appendix G Eisgein Habitat Survey - Uise 4

				SFC	C HAI	BITAT	SURV	/EY VE	RSI	ON 3.0 I	101	/EMB	ER 20	13			
GENER	AL IN	IFOF	RMAT	ION													
ID Uise	4	River	r	Abha	inn Che	othada	il		A	titude (m))	35		Date		31.10.202	22
DownstE ((m)				ownst	N (m)			Co	onductivit	ty	86					
						Wat	er level			Circ	le O	NE: [Dry / Lo	ow / Med	ium/ +	ligh	
Surveyor		Name	e: Pau	I Hoppe	er –				Propr	ietors							
		Accr	editati	on Cod	le:				No	tes	l	U/S end	l of site	Co-ordin	nates:	130281 9 [,]	2279
CHANN	EL D	ΑΤΑ							-								
Wet width	(m)	6.6	E	Bed wid	th (m)	6.6	Bar	nk width	ı (m)	7.4	M	ature is	alands(r	n)		0	
WATER D	EPTH	S (% (OF SU	RVEY	TRET	CH WE	TTED A	REA)	. ,								
0-20 cm	ı	0			21-40	cm	30		41	-80 cm	7	0		>80	cm	0	
SUBSTRA	TE (%	OF S	SURVE	Y STRI	ЕТСН И	VETTE	D AREA	.)						_			
HO 5	S	I	0	SA	5	GR	0	PE	0	СО	25	BC	55	BE	10	OB	0
Instream v	/eg (%	5)		5	Silte	d?		Y /)		Iron o	leposit	s (%)	0	LWD	
Substrate			Circle	ONE o	of EACI	1:	Stable)/ Uns	table	AND	Co	ompacte	ed / Pa	artly / Unc	ompac	ted	
Substrate	notes																
CHANNEL	. FEA1	URE	s (% c	OF SUR	VEY SI	RETC	H LENG	TH)									
Braided cl	hanne	ls (%	5)				0			Br	aids	s stable	?		Y / N		
Channel fe	eature	note	s														
FLOW (%	OF SL	JRVE	Y STR	ETCH V	VETTE	D ARE	4)							_			
SM	5	DP	C		SP	0	DG	0	SG	30		RU	25	RI	40	то	0
Flow note:	s																
CANOPY	COVE	R (%)	OF SL	IRVEY S	STRET	CH WE	TTED A	REA)									
		%) (U		anopy		notes										
											_						
Eish Cove	e FISF r (%)		/ER (%			NGTH)	Circle Al)/MA / P	т 🜈		-u			OR	NONE
Cover Not	as				136												
GENERAL	. BANI	KSIDI	E STA	TUS (%	OF BA	NK LE	NGTH)_										
Riparian b	ouffer	zone	(m)		Gra	zing in er zon	tensity (bankfac	e &	с	ircle	ONE:	None	Light	Modera	ate / Inter	ise
Grazers (b	bankfa	ce &	buffer	zone)			•	(Circle	ANY: De	er	Livest	ock / R	abbits O l	R Nor	ne	
Grazing ex feature(s)	xclusi prese	on nt	Deer	fence /	Stock	fence /	Circle / Wall / H	ANY OR edge / F	'Non abbit i	ə': mesh / Otl	her	0		e Exclu	usion (ired (m	upgrade n)	N
Predomina	ant ba	nkfac	ce veg	etation				Cir	cle ON	E: Bare	/ Uı	niform			lex		
Predomina	ant bu	iffer z	one v	egetatio	on			Cir	cle ON	IE: Bare	/ Ui	niform	Simple	/ Comp	lex		
Collapse (%)	Se	vere:	Mo	oderate	·	Light:		Eros	sion (%)		Sever	re:	Moderate	:	. Light:	
Trampling	(%)	Se	vere	Mo	oderate	:	Light:		Ban	kside not	tes	No Co	ollapse,	, Erosion	or Tra	mpling at	site
Side bars	(%)		0	Side b	ars sta	ble?	Y / N	/(NA)	Poir	nt bars (%	5)	0	Po	int bars s	stable?	? Y/N	1 /(<mark>NA</mark>)
RIPARIAN	ZONE											I					
Overhangi length - tro	ing bo ees ar	oughs nd shi	; (% o rubs)	f bank)	Predom	ninant o	verha	nging tree	es		Decidu	Circle	e ONE: /ergree	en / None	



Predominant land (50m from banktop	use) AR / BL	Circle ONE: / CP / FW / GP / IG / IN (MH) / NC / OR / OW / RD / RP / RS / SC / SU / TH / TL / WL
Other land uses (50m from banktop)	AR / BL / CP / F	Circle ANY (EXCLUDING category already circled above) OR 'NA': W / GP / IG / IN / MH / NC / OR / OW / RD / RP / RS / SC / SU / TH / TL / WL OR NA
Presence of young	plantations	Circle ANY: Deciduous / Coniferous / Mixed OR None
Conifer planting: F	&W guidelines?	Y / N / NA Riparian notes

ID	Uise 4		River	Abha	inn Cl	heothad	dail				I	Date	31.10.2022		
RIGH	T BA	NK ((looki	ng DOW	NST	REA	M)								
BANK	SIDE F	ISH (COVER	(% OF BA	NK L	ENGT	H)			,	\sim				
Fish C	over (%)		80	Ту	ре	Circle	ANY: DF	r / <mark>UC</mark> / MA /	rt (<mark>f</mark>	RK)/ OT	Н		OR	NONE
Cover	Notes														
GENE	RAL B	ANKS	SIDE S	TATUS (%	OF B	ANK L	ENGTI	H)		Olivala		Name (and the first	
Riparia	an buf	fer zo	one (m)	0	bu	ffer zoi	ntensii ne)	ty (bankfa	ce &	Circle		None /	Light Mode	erate / Inte	ense
Grazer	rs (ban	kface	e & buf	fer zone)					Circle ANY: (Deer		<mark>ock</mark>)/ Ra	bbits OR No	one	_
Grazin feature	ig excl e(s) pro	usion esent		eer fence /	Stoc	k fence	Circ / Wall	le ANY OF / Hedge / F	R 'None': Rabbit mesh /	Other .	0	R None	Exclusion required (upgrade m)	0
Predor	minant	bank	kface v	egetation				Ci	r cle ONE : Ba	re / U	niform /	Simple)/ Complex		
Predor	minant	buff	er zone	e vegetatio	n			Ci	r cle ONE : Ba	re / U	niform /	Simple)/ Complex		
Collap	se (%)		Severe	е: Мо	derat	e:	. Ligh	t :	Erosion (%	6)	Sever	e: N	oderate:	Light:	
Tramp	oling (%	6)	Severe	e: Mo	derat	e:	Ligh	t:	Bankside i	notes	No Co	llapse,	Erosion or Tr	ampling at	site
Side b	ars (%)	0	Side ba	ars st	able?	Y /	N /NA	Point bars	(%)	0	Poi	nt bars stable	? Y/N	1 / <mark>NA</mark>
RIPAR	RIAN ZO	ONE		_				_	_						
Overha length	anging - trees	bou and	ghs (% shrub	6 of bank s)			Pred	lominant o	overhanging t	trees		Deciduo	Circle ONE ous / Evergre	: en / <mark>None</mark>	
Predor (50m f	minant rom ba	land ankto	use p)	AR / B	_ / C	P/FW	/ / GP	/ IG / IN /	Circl MH / NC / C	e ONE DR / OV	: // RD	/RP/F	S / SC / SU	/ TH / TL	/ WL
Other (50m fr bankto	land u rom op)	ses	AR	/BL /CP	/ FW	Circle / / GP	e ANY / IG / II	(EXCLUDI	NG category	already V / RD	y circleo / RP / I	l above) RS / SC	OR 'NA': / SU / TH /	tl / WL (
Preser	nce of	youn	g plant	tations			Cir	cle ANY:	Deciduous	/ C	Coniferou	ıs / I	Mixed OR	None	
Conife	er plant	ting: I	F&W g	uidelines?		Y / N	1 / <mark>NA</mark>	Ripa	rian notes						
PART	Г Е: Р	HOT	FOGR	APHS											
PART	Г F : Р	OLL	UTIO	N POINT	S										
ID				Easting				N	lorthing				Time		
Туре	Circ	cle Ol	NE: FE	E/FR/IN	I / RD	/SE	/ SD /	?? / OTH				Sta	atus Pote	ential /	Actual
Dead f	ish?	Y	/ N	Photos					Contact						
Notes					1										
PART	Г G: С)BS ⁻	TACL	ES											
ID			Ea	sting						Nor	thing				
Туре	BR	/ CU /	DA / F	C/FD/FS	Circ / FT	cie AN / GC / \	Y: WE / W	/F/ WG / 0	тн	Pas	s?	o (U/D)	Circle ON / No (U) / Yes	NE: s (S/F) / Ye	es/??
Vertica	al?	Y / N	/ NA	EF requi	ed?	Y	/ N	Photos			Contact	:	•		



Notes																
PART	H: CHA	NNE	L/B	ANK	K MODIF	ICATIO	ONS									
ID		E	Easting	g		No	rthing			Locati	on	Circle A	NY: Le	eft Bk	/ Rig	ht Bk / Bed
Туре	CD / CR	/ CW	/ FP / (GA / I	Circle A HP / PI / R	ANY: E / RR /	SN/UC	/ OTH		Effecti	ivenes	s _{Effe}	ctive /	Circle Ineffe	e ONE	: / Not known
Downst	Downstream effect ? Y / N Approx. age / Not known Previous attempts 0 / 1 / 2 / > 2 / Not known															
Length	Length (m) Photos Contact															
Notes																
PART	I: SPAV	VNIN	G LO	CA.	TIONS											
ID		East	ting			Northi	ng		Ar	ea (m2)			Use	able	(%)	
Suitabil	lity (G/P)	SA	۹	TR	8	Washo	out?	Y / N / ?	N	lotes						
POLL	UTION,	OBS	TACI	LES,	, MODIFI	CATIO	ONS AN	ID SPAW	NING	G CON	T'D O	N PAG	E 3			

POLL	UTION	I, OBS	TACLES,	MOD	IFICATI	ONS AN	D SPAN	/NINC	g Co	ONT	D		PAGE			
ID	Uise 4	Rive	r Abh	ainn Che	eothadail						Date	e	31.10.20	022		
POLL	UTION		TS													
ID			Easting				Northing						Time			
Туре	Circle	ONE: F	E/FR/I	N / RD	/SE/SD	/??/01	ГН					Sta	tus	Potential	/	Actual
Dead fi	sh?	Y / N	Photos				Cont	act								
Notes																
ID			Easting				Northing						Time			
Туре	Circle	ONE: F	E/FR/I	N / RD	/SE/SD	/??/01	ГН					Sta	tus	Potential	/	Actual
Dead fi	sh?	Y / N	Photos				Cont	act								
Notes																
OBST	ACLE	S														
ID		1	Easting						No	rthing						
Туре	BR / C	U/DA	/ FC / FD / F	Circl S / FT /	e ANY: GC / WE	/ WF/ W0	G / OTH		Pas	ss?	No (U	J/D) /	Circl No (U)	l e ONE: / Yes (S/F)	/ Ye	es / ??
Vertica	I? Y	/ N / NA	EF requ	ired?	Y / N	Photo	s			Conta	act					
Notes																
ID		I	Easting						No	rthing						
Туре	BR / C	U/DA	/ FC / FD / F	Circl S / FT /	e ANY: GC / WE	/ WF/ W0	G / OTH		Pas	ss?	No (U	J/D) /	Circl No (U)	l e ONE: / Yes (S/F)	/ Ye	es / ??
Vertica	I? Y	/ N / NA	EF requ	ired?	Y / N	Photo	s			Conta	act					
Notes																
CHAN	INEL /	BANK		CATIO	NS											
ID		I	Easting		No	orthing			Loc	cation	С	ircle	ANY: Le	ft Bk / Righ	nt Bk	/ Bed
Туре	CD/C	R/CW	/ FP / GA / I	Circl HP / PI	e ANY: / RE / RR	SN / UC	/ OTH		Eff	ective	ness	Effe	cective / I	Circle ONE neffective /	: No	t known
Downs	tream e	fect ?	Y / N	Appro	x. age	/ N	lot known	Prev	vious	atten	npts	0	/ 1 / 2	2 / >2 /	Not	known



Length	(m)		Phot	tos				Contact						
Notes														
ID			Eastin	g		No	rthing			Locatio	on C	Circle ANY: Left Bk	/ Right Bk / Bed	
Туре	CD /	/ CR / CV	V/FP/	ga / Hp	Circle A P / PI / R	NY: E / RR /	SN / UC	/ OTH		Effectiv	veness	Circle Effective / Ineffect	ONE: ctive / Not known	
Downst	tream	effect ?	Υ/	N A	Approx.	age	/ 1	Not known	Prev	vious atte	empts	0 / 1 / 2 / >	> 2 / Not known	
Length	(m)		Phot	tos				Contact						
Notes	lotes													
SPAW	SPAWNING LOCATIONS													
ID		Ea	sting			Northin	ng		Ar	ea (m2)		Useable	(%)	
Suitabi	lity (G	G/P)	SA	TR		Washo	ut?	Y / N / ?	N	lotes				
ID		Ea	sting			Northin	ng		Ar	ea (m2)		Useable ((%)	
Suitabi	lity (G	G/P)	SA	TR		Washo	ut?	Y / N / ?	N	lotes				
ID		Ea	sting			Northin	ng		Ar	ea (m2)		Useable ((%)	
Suitabi	lity (G	G/P)	SA	TR		Washo	ut?	Y / N / ?	N	lotes				
POLL	υτιο	N, OB	STAC	LES, M	IODIFI	CATIC	ONS AN	ID SPAW	NING	CONT	T'D ON	I PAGE		



Appendix H Eisgein Habitat Survey - Uise 5

		SF	СС НА	BITAT	SURV	ey vei	RSIC	ON 3.0 M	101	/EMB	ER 20	13			
GENERAL IN	FORM	ΙΑΤΙΟΝ	J												
ID Uise 5	River	r Ak	hainn Ch	eothada	ail		Alt	itude (m))	17		Date		31.10.202	22
DownstE (m)			Downs	tN (m)			Co	nductivit	tv	76					
				Wa	ter level			Circl	e Ol	NE: D)ry / Lo	ow / (Me	edium)/	High	
Survevor	Nom	a. Double	lannar			F	Propri	etors			,			5	
	Accr	e: Paul H editation	opper Code: .				Not			U/S on	d of site	Co-ordi	inatos:	131055 9	12324
							Not	.63				, co-oru	nates.	131033 3	12524
CHANNEL DA	ATA														
Wet width (m)	6.4	Bed v	vidth (m)	6.4	Ban	k width	(m)	7.2	M	ature i	slands(n)		0	
WATER DEPTHS	6 (% OF	SURVE	Y STRET	CH WE	TTED AR	EA)									
0-20 cm			21-40	cm		_	41	-80 cm	6	50	-	>80) cm	0	_
HO 0 SI		SA		GR	20 20	PE	30	со	40	В	D 10	BE	0	ОВ	0
Instream veg (%)		10	Silf	ed2		v /			-	Iron	denosit	s (%)	0		0
Substrate	c	ircle ON	E of EAC	:H:	Stable	/ Unsta	ible	AND	C	ompact	ed / Pa	artly / Un		cted	Ů
Substrate notes												j , <mark>.</mark>			
CHANNEL FEAT	URES	(% OF S	URVEY S	TRETC	H LENGT	Ή)									
Braided channels (%) 0 Braids stable? Y / N / NA															
Channel feature	Channel feature notes														
FLOW (% OF SU	RVEY	STRETC	H WETT	D ARE	A)										
SM 5	DP	0	SP	0	DG	0	SG	0		RU	80	RI	15	то	0
Flow notes															
CANOPY COVER	R (% OF	SURVE	Y STRET	CH WE	TTED AR	REA)	-		-						
Canopy cover (%) 0		Canop	/ cover	notes	_									
LEFT BANK (lookii	ng DO\	WNSTR	EAM)			_		_						
BANKSIDE FISH	COVE	R (% OF	BANK L	ENGTH) Oinele AN			/	T / F		T 11			0.0	NONE
Fish Cover (%)		90	IY	be	CIrcle AN			/ MA / R	I / F	K / U	IH			UR	NONE
GENERAL BANK	SIDE S	STATUS	(% OF B	ANKLE	NGTH)										
Riparian buffer z	one (m	n) O	Grabu	izing in fer zon	tensity (b e)	ankface	&	С	ircle	ONE:	None) Light /	/ Moder	ate / Inter	nse
Grazers (bankfac	ce & bu	Iffer zon	e)			Ci	rcle /	ANY: De	er /	Livest	ock / F	Rabbits C		ne	
Grazing exclusio	on (r	Deer fend	Stock	fence		NY OR (None	i':	hor		P Non	Exc	lusion	upgrade	
Predominant bar	nkface	vegetati	on	(lence /		Circ		E: Bare	/ Ui	niform		e) Com		"	-
Predominant buf	fer zor	ne vegeta	ation			Circ	le ON	E: Bare	/ U	niform		e) Com	, plex		
Collapse (%)	Seve	re:	Moderat	e:	Liaht:		Eros	ion (%)		Seve	re:	Moderat	e:	Liaht:	
Trampling (%)	Seve	re:	Moderat	e:	Light:		Bank	kside not	es	No C	ollapse	Erosio	ı or Tra	ampling a	t site
Side bars (%)	0	Side	e bars st	able?	Y / N	/ (NA)	Poin	t bars (%	5)	0	Po	oint bars	stable	? Y/I	N /(NA)
RIPARIAN ZONE						$\overline{\mathbf{O}}$		- (//	,						
Overhanging boo length - trees and	ughs (d shrul	% of bar bs)	nk	0	Predomi	inant ov	erhan	iging tree	es		Decid	Circl uous / E	e ONE	: en / <mark>None</mark>	



Predominant land (50m from banktop	use) AR / BL	Circle ONE: CP / FW / GP / IG / IN (MH) / NC / OR / OW / RD / RP / RS / SC / SU / TH / TL / WL
Other land uses (50m from banktop)	AR / BL / CP / F	Circle ANY (EXCLUDING category already circled above) OR 'NA': W /GP /IG /IN /MH /NC /OR /OW /RD /RP /RS /SC /SU /TH /TL / WL OR NA
Presence of young	plantations	Circle ANY: Deciduous / Coniferous / Mixed OR None
Conifer planting: F	&W guidelines?	Y / N / NA Riparian notes

ID	Uise 5		River	Abha	inn Cheo	thadail							Date	31.10	2022		
RIG		NK (lo	ookin	g DOW	NSTRE	EAM)											
BAN	(SIDE FI	SHC	OVER ('	% of Ba	NK LEN	GTH)											
Fish	Cover (%	b)		80	Туре	Ci	rcle ANY	: <mark>0r</mark>	(<mark>UC</mark>)/N	1A / I	RT / F	rk / O	тн			OR I	NONE
Cove	r Notes																
GENE	ERAL BA	NKSI	DE STA	ATUS (%	OF BAN	K LEN	GTH)										
Ripar	ian buffe	er zon	e (m)	50	Grazir buffer	ng inter zone)	nsity (ba	nkfac	e &	C	ircle (ONE :	None) Light /	Moderate	e / Inte	nse
Graze	ers (bank	face a	& buffe	r zone)				C	Circle AN	Y : C	Deer /	Livest	tock / R	abbits (>	
Grazi featu	ng exclu re(s) pre	ision sent	Dee	er fence	Stock fe	c nce / W	Circle AN	Y OR ge / R	'None': abbit mes	sh / C)ther		OR None	e Exc	lusion up uired (m)	grade	0
Predo	ominant	bankf	ace veç	getation				Circ	cle ONE:	Bare	e / Ur	niform	/ Simple	/ Com	plex		
Predo	ominant	buffer	zone v	/egetatio	n			Circ	cle ONE:	Bare	e / Ur	niform	/(Simple)/ Com	plex		
Colla	pse (%)		Sever	e: N	loderate	:	Light:		Erosio	n (%))	Seve	re:	Moderat	e: L	.ight:	
Tram	pling (%))	Sever	e: N	loderate	:	Light:		Banksi	de no	otes	No C	ollapse,	Erosion	or Tram	oling at	site
Side	bars (%)		0	Side ba	ars stabl	e?	Y / N /(NA	Point b	ars (%)	0	Ро	int bars	stable?	Y / N	
RIPA	RIAN ZO	NE															
Overl lengt	hanging h - trees	bougł and s	ns (% d hrubs)	of bank	0	Р	redomin	ant o	verhangi	ng tr	ees		Decidu	Circ l 10us / E	e ONE: vergreen	None	
Predo (50m	ominant from bai	land u nktop)	ise	AR / BI	_ / CP /	FW /	GP / IG /	'IN <i>I</i> (c MH) / NC	ircle / OF	ONE: R / OV	V/RD	/ RP /	RS / SC	/ SU / TI	H / TL /	/ WL
Other (50m bankt	r land us from top)	es	AR / I	BL / CP	Ci / FW / (rcie Al GP / IG	NY (EXCL 5 / IN / MI	LUDIN H / N	NG catego C / OR /	ory a OW	lready / RD	/ circle / RP /	ed above RS / S	e) OR 'N C / SU /	4': TH / TL	/ WL C	
Prese	ence of y	oung	plantat	tions			Circle A	NY:	Deciduo	ous	/ C	onifero	ous /	Mixed		one	
Conif	er planti	ng: Fð	&W gui	delines?	Y	/ N (NA) F	Ripari	ian notes	;							
PAR	T E: Pl	ното	DGRA	PHS													
PAR	T F: P(OLLL	JTION	POINT	S												
ID				Easting				No	orthing					Tim	e		
Туре	Circl	e ONE	: FE /	FR / IN	/ RD / \$	SE / SI	D / ?? / (ОТН.					S	tatus	Potentia	al / .	Actual
Dead	fish?	Υ/	N	Photos					Contac	t					•		
Notes	6																
PAR	T G: O	BST	ACLE	S													
ID			East	ting							Nort	hing					
Туре	BR /	CU/I	DA / FC	; / FD / F	Circle	ANY: GC / WI	E/WF/ V	NG / G	ОТН		Pass	s?	No (U/D)	Ci ı / No (U	cle ONE:) / Yes (S	/F)/ Ye	s/??
Vertic	cal? Y	//N/	NA	EF requi	red?	Y / N	Phot	tos			(Contac	x ,	,		,	
Notes	5																



PART	H: C	HANN	EL / BAI	NK MODIFI	CATION	S								
ID			Easting		Northin	ng			Locatio	on C	Circle AN	Y: Left Bl	c / Rig	ht Bk / Bed
Туре	CD /	CR/CV	V / FP / GA	Circle A	NY: E / RR / SN	/ UC	/ OTH		Effectiv	/eness	Effecti	Circl ve / Ineffe	e ONE ective /	: Not known
Downst	tream	effect ?	Y / N	Approx. a	ige	/ 1	Not known	Prev	vious atte	empts	0 /	1 / 2 /	>2 /	Not known
Length	Length (m) Photos Contact													
Notes	Notes													
PART	I: SF	PAWNI	NG LOC	ATIONS										
ID Ui:	se 5 (a	a) E g	Eastin 1	31070	Northing	91	2344	Ar	ea (m2)	144		Useable	9 (%)	90
Suitabi	lity (G	5/P)	sa.(. <mark>y</mark> .).	TR.(. <mark>Y</mark> .)	Washout?		Y (N)?	N	lotes		F	Photos tak	ken	
POLL	υτιο	N, OB	STACLE	S, MODIFI	CATIONS	S AN	ID SPAW	NING	CONT	"D ON	N PAGE	3		

POLL	UTION	I, OBST	TACLES,	MODIFICATI	IONS AN	ID SPAW	NING	G CONT	D	PAG	E	
ID	Uise 5	Riv	r er Abh	ainn Cheothada	ail				Date	a 31.10.	2022	
POLL	UTION		rs									
ID			Easting			Northing				Tim	e	
Туре	Circle	ONE: F	E/FR/IN	/RD/SE/SE	0/??/0	TH				Status	Potential /	Actual
Dead fi	sh?	Y / N	Photos			Conta	ct					
Notes												
ID			Easting			Northing				Tim	е	
Туре	Circle	ONE: F	E/FR/IN	/ RD / SE / SE) / ?? / O	тн				Status	Potential /	Actual
Dead fi	sh?	Y / N	Photos			Conta	ct					
Notes												
OBST	ACLE	S										
ID		E	asting					Northing				
Туре	BR / C	U/DA/	FC / FD / F	Circle ANY: S/FT/GC/WE	E/WF/W	G / OTH		Pass?	No (L	Cir I/D) / No (U	rcle ONE:) / Yes (S/F) / Ye	es / ??
Vertica	I? Y.	/ N / NA	EF requir	red? Y/N	Photo	s		Cont	act			
Notes												
ID		E	asting					Northing				
Туре	BR / C	:U / DA /	FC / FD / F	Circle ANY: 3/FT/GC/WE	E/WF/W	G / OTH		Pass?	No (L	Cir I/D) / No (U	r cle ONE:) / Yes (S/F) / Ye	es / ??
Vertica	I? Y	/ N / NA	EF requir	red? Y/N	Photo	s		Cont	act			
Notes												
CHAN	INEL /	BANK	MODIFIC	ATIONS								
ID		E	asting	N	orthing			Location	С	ircle ANY: L	.eft Bk / Right Bk	c / Bed
Туре	CD / C	R/CW/	' FP / GA / H	Circle ANY: P / PI / RE / RR	/ SN / UC	/ OTH		Effective	ness	Effective /	Circle ONE: Ineffective / No	t known
Downs	tream el	ffect ?	Y / N	Approx. age	/ ١	Not known	Prev	vious atten	npts	0 / 1 /	2 / >2 / Not	known
Length	(m)		Photos			Contact						



Notes													
ID			Easting		North	ing			Locatio	on C	ircle AN	Y: Left Bk /	Right Bk / Bed
Туре	CD /	CR / CV	V / FP / GA	Circle	ANY: RE / RR / SI	۷/UC	/ OTH		Effectiv	veness	Effecti	Circle O ve / Ineffectiv	NE: /e / Not known
Downst	tream e	effect ?	Y / N	Approx	age	/ 1	Not known	Prev	vious att	empts	0 /	1 / 2 / >2	/ Not known
Length	(m)		Photos				Contact						
Notes													
SPAW	/NING	G LOC	ATIONS										
ID		E	asting		Northing			А	rea (m2)			Useable (%)
Suitabil	lity (G	/P) S	SA	TR	Washout	?	Y / N / ?	r	Notes				·
ID		E	asting		Northing			А	rea (m2)			Useable (%)
Suitabil	lity (G	/P) S	SA	TR	Washout	?	Y / N / ?	1	Notes				
ID		E	asting		Northing			А	rea (m2)			Useable (%)
Suitabil	lity (G	/P) \$	SA	TR	Washout	?	Y / N / ?	1	Notes				
POLL	υτιοι	N, OB	STACLE	S, MODIF	ICATION	S AN	ID SPAW	NINC	G CONT	"D ON	PAGE		



Appendix I Eisgein Habitat Survey - Uise 6

		S	FCC	НАВ	ΙΤΑΤ	SURV	EY VE	RS	ON 3.0	NO	VE	MBER 2	2013				
GENERAL I	NFOF	RMATIO	N														
ID Uise 6	Rive	r Ab	hainn (Cleanr	n Airiat	ean Dh	omhnaill	Δ	ltitude (i	n)	14	1	D	ate		01 11 202	2
DownstE (m)		7.00	Do	wnstN	l (m)		omman	C	onductiv	, /itv	72	, ,					-
			20		Wat	er level			onduoti	Circl		- NF∙ Drv	/ 10		Aedium	0	
Surveyor					Wat		_						Site I	onath	~ -42	<u>,</u>	
Surveyor	Name	e: Paul Ho	opper Code:							-				.engu	1 - 421		
	ACCI	euitation	coue.					N	otes		U/S	end of si	te Co-	-ordin	ates: 1	29407 9	0755
CHANNEL D	ΑΤΑ																
Wet width (m)	9.3	Bed	width	(m)	10.2	Bar	nk width	(m)	11.5	N	latu	re islands	s(n)			0	
WATER DEPTH	IS (% 0	OF SURV	EY ST	RETC		TED AF	REA)						_				
0-20 cm	5		2'	1-40 c	m	10		4	1-80 cm		45			>80 (cm	40	
SUBSTRATE (9	% OF S	SURVEY	STRET	CH W	ETTEL	D AREA)										
	51	0 54	`	0	GR	0	PE	10		10	<u>'</u>	BO 2	20	BE	60	OB	0
Instream veg (%)	0		Silter	1?	\sim	Y /	(<mark>N</mark>	I)		lr:	on depos	its (%)	0	LWD	0
Substrate		Circle O	NE of I	EACH	: (Stable) Uns	able	AND	C	Comp	pacted / I	Partly		ompac	ted	
Substrate note	s																
CHANNEL FEA	CHANNEL FEATURES (% OF SURVEY STRETCH LENGTH) Braided channels (%) 0 Braids stable? Y / N (NA)																
Braided chann	Braided channels (%) 0 Braids stable? Y / N NA																
Channel featur	Channel feature notes																
FLOW (% OF S	Channel feature notes FLOW (% OF SURVEY STRETCH WETTED AREA)																
SM 5	DP	10	SP		0	DG	0	S	G 0		RU	30	R	1	50	то	5
Flow notes								_		_	_			_			
CANOPY COVE	ER (%)		EY ST	RETC	H WE		REA)										
Canopy cover	(%)		Car	тору с	coveri	lotes	_										
										_							
BANKSIDE FIS	HCOV	/ER (% U	F BAN		NGTH)	irelo Al		/110	· / MA /	от (ОТН				OP	
Cover Netes		40	-	Type			NI. DR	/ 00	, / IVIA /) 0111				UK	NONE
GENERAL BAN	IKSIDI	E STATU	S (% Q	F BAN		NGTH)_											
Riparian buffer	zone	(m)	0	Grazi buffe	ing int	ensity (l	bankfac	e &		Circl	le Ol		e) Li	ght / I	Modera	ite / Inter	ise
Grazers (bankf	ace &	buffer zo	ne)				(Circle	ANY: [Deer /	/ Liv	vestock /	Rabb	its O F	R (Nor		
Grazing exclus feature(s) pres	ion ent	Deer fer	nce / S	stock fe	ence /	Circle / Wall / He	ANY OR edge / R	'Nor abbit	ne': mesh / C	Other			one	Exclu requi	ision ι red (m	ipgrade	
Predominant b	ankfac	ce vegeta	tion				Cir	cle O	NE: Bar	e/l	Jnifo	rm / Sim	ple /	Comp	lex		
Predominant b	uffer z	one vege	tation				Cir	cle O	NE: Bar	e/l	Jnifo	rm /(<mark>Sim</mark>	ple)	Comp	lex		
Collapse (%)	Se	vere:	Mod	erate:		Light:		Erc	osion (%))	S	evere:	Mod	erate		Light:	
Trampling (%)	Se	vere:	. Mod	erate:		Light:		Ba	nkside n	otes	N	o Collaps	e, Erc	sion	or Tra	npling at	site
Side bars (%)		0 Sid	de bars	s stab	le?	Y / N	/(NA)	Po	int bars (%)		0 F	Point k	oars s	table?	Y / N	
RIPARIAN ZON	IE																
Overhanging b length - trees a	oughs Ind shi	(% of ba rubs)	ank	5		Predom	ninant o	verha	anging tr	ees			iduous	Circle	ONE: ergree	n / None	



Predominant land (50m from banktop	use) AR / BL	Circle ONE: / CP / FW / GP / IG / IN (MH) NC / OR / OW / RD / RP / RS / SC / SU / TH / TL / WL
Other land uses (50m from banktop)	AR / BL / CP / F	Circle ANY (EXCLUDING category already circled above) OR 'NA': W / GP / IG / IN / MH / NC / OR / OW / RD / RP / RS / SC / SU / TH / TL / WL OR NA
Presence of young	plantations	Circle ANY: Deciduous / Coniferous / Mixed OR None
Conifer planting: F	&W guidelines?	Y / N (NA) Riparian notes

ID Uise 6	Rive	er	Abhain	n Cleann .	Airighe	an Dhomhi	naill			Date	01.11.	2022		
RIGHT BAI	NK (loo	king	DOWN	ISTREA	M)									
BANKSIDE F	SH COV	ER (%	OF BAN	K LENGT	H)			,	<u> </u>					
Fish Cover (%	6)	40		Туре	Circl	e ANY: DI	R/UC/MA/	rt (<mark>rk)</mark> / 0 [.]	ТН			OR 1	NONE
Cover Notes														
GENERAL BA	NKSIDE	STAT	US (% O	FBANK	ENGT	Ή)		<u>.</u>						
Riparian buff	er zone (I	n)	0	Grazing buffer zo	intens ne)	ity (bankfa		Circle	ONE :	None)/ Light /	Moderat	e / Inte	nse
Grazers (ban	kface & b	uffer z	zone)				Circle ANY:	Deer /	Livest	tock / F	Rabbits C	R None)	
Grazing exclu feature(s) pre	ision sent	Deer f	fence / S	Stock fenc	Ciro e / Wall	cle ANY O / Hedge /	R 'None': Rabbit mesh /	Other .			Excl	lusion up lired (m)	grade	0
Predominant	bankface	e vege	tation			Ci	rcle ONE: Ba	re / U	Iniform	/ Simp	le / <mark>Com</mark>	plex)		
Predominant	buffer zo	ne ve	getation			Ci	rcle ONE: Ba	re / U	Iniform	Simp	le) Com	plex		
Collapse (%)	Sev	ere:	Mod	erate:	Ligł	n t :	Erosion (%)	Seve	ere:	Moderate	ə: L	ight:	
Trampling (%) Sev	ere:	Mod	erate:	Ligi	nt:	Bankside r	notes	No C	ollapse	, Erosion	or Tram	pling at	site
Side bars (%)	0	5	Side bar	s stable?	Y	/ N (<mark>NA</mark>)	Point bars	(%)	0	Po	oint bars	stable?	Y / N	
RIPARIAN ZC	NE													
Overhanging length - trees	boughs and shru	(% of ıbs)	bank	5	Pre	dominant	overhanging t	rees		Decid	Circl uous	e ONE: vergreen	/ None	
Predominant (50m from ba	land use nktop)	Å	AR / BL	/ CP / F	N / GF	? / IG / IN	Circl / <mark>MH</mark>)/ NC / O	e ONE R / O\	:: W / RD) / RP /	RS / SC	/ SU / T	H/TL/	/ WL
Other land us (50m from banktop)	A	R / BL	. / CP /	Circ FW / GP	e ANY / IG / I	(EXCLUD N / MH /	ING category (NC / OR / OW	alread / / RD	y circle / RP /	ed abov / RS / S	e) OR 'N/ SC / SU /	A': TH / TL	/ WL C	
Presence of y	oung pla	ntatio	ons		Ci	rcle ANY:	Deciduous	/ 0	Conifero	ous /	Mixed		one	
Conifer plant	ing: F&W	guide	elines?	Υ/	n (<mark>n/</mark>	Ripa	rian notes							
PART E: P	нотос	RAP	HS											
PART F: P	OLLUTI	ON F	POINTS	6										
ID		Ea	sting			1	Northing				Tim	е		
Type Circ	le ONE:	FE / F	R / IN	RD / SE	/SD	/?? /OTH				5	Status	Potenti	al / /	Actual
Dead fish?	Y / N	Ph	notos				Contact							
Notes		•												
PART G: O	BSTAC	LES												
ID Uise	6(a)	Eastin	ıg	129407				Nor	thing	9107	55			
Type BR /	CU/DA	/ FC /	FD / FS	Circle AN / FT / GC	Y: / WE (WF) WG	/ OTH	Pas	is? (1	No (U/D	Cir V No (U)	cle ONE:) / Yes (S	/F)/ Ye	s/??
Vertical?		EF	require	d? Y		Photos	Yes		Contac	rt				



Notes		Photos taken										
PART H: CHANNEL / BANK MODIFICATIONS												
ID		Easting Northing								Circle AN	IY: Left Bk / Ri	ght Bk / Bed
Туре	Circle ANY: Circle ONE: Type CD / CR / CW / FP / GA / HP / PI / RE / RR / SN / UC / OTH Effectiveness Effective / Ineffective / Not known											
Downst	tream effect	? Y/N	Approx.	Approx. age / N			Prev	vious atte	empts	0 /	1 / 2 / >2	/ Not known
Length	Length (m) Photos Contact											
Notes	Notes											
PART I: SPAWNING LOCATIONS												
ID Uis	se 6(b)	Easting	129423	Northing	910	0752	Ar	rea (m2)	3		Useable (%)	100
Suitabil	Suitability (G/P) SA.Y TR.Y Washout? Y N / ? Notes Photos taken											
POLL	POLLUTION, OBSTACLES, MODIFICATIONS AND SPAWNING CONT'D ON PAGE 3											

POLLUTION, OBSTACLES, MODIFICATIONS AND SPAWNING CONT'D PAGE																
ID	Uise 6	ise 6 River Abhainn Cleann Airighean Dhomhnaill								Date			01.11.2022			
POLL	POLLUTION POINTS															
ID			Easting	I	Northing							Т	ime			
Туре	Circle	ONE: F	E/FR/	N / RD	/SE/SD					Status	F	Potential	Act	ual		
Dead fi	sh?	Y / N	Photos			Cont	act									
Notes																
ID	Easting Northing										т	ime				
Туре	Type Circle ONE: FE / FR / IN / RD / SE / SD / ?? / OTH											Status	F	Potential	Act	ual
Dead fi	sh? Y/N Photos Contact							act								
Notes	Notes															
OBSTACLES																
ID Easting Northing																
Туре	Type Circle ANY: BR / CU / DA / FC / FD / FS / FT / GC / WE / WF / WG / OTH									Circle ONE: No (U/D) / No (U) / Yes (S/F) / Yes / ??						
Vertica	Y / N / NA EF required? Y / N Photos									Contac	:t					
Notes																
ID		E	Easting						Northing							
Туре	Circle ANY: Pass? Circle ONE: BR / CU / DA / FC / FD / FS / FT / GC / WE / WF / WG / OTH Pass? No (U/D) / No (U) / Yes (S/F) / Yes / ?											??				
Vertical? Y / N / NA EF required? Y / N Photos Contact																
Notes																
CHANNEL / BANK MODIFICATIONS																
ID	Easting Northing								Location Circle ANY: Left Bk / Right Bk /				Bk / E	3ed		
Туре	Circle ANY: Pe CD / CR / CW / FP / GA / HP / PI / RE / RR / SN / UC / OTH										Effectiveness Circle ONE: Effective / Ineffective / Not know					own
Downstream effect ? Y / N Approx. age / Not known Previous attempts 0 / 1 / 2 / > 2 / Not k											lot kno	wn				



Length (m)			Phot	tos				Contact							
Notes															
ID			Eastin	g			rthing			Locatio	on C	Circle ANY: Left Bk / Right Bk / Bed			
Type CD / CR / CW			V/FP/	ga / Hp	Circle A P / PI / R	NY: E / RR /	SN / UC	/ OTH	Effectiveness			Circle ONE: Effective / Ineffective / N	Circle ONE: Effective / Ineffective / Not known		
Downstream effe		effect ?	fect? Y / N Aj		Approx.	x. age / I		lot known Pre		vious attempts		0 / 1 / 2 / >2 / Not know			
Length (m)			Phot	tos			Contact								
Notes	Notes														
SPAW	SPAWNING LOCATIONS														
ID		Ea	sting			Northin	ng		Ar	ea (m2)		Useable (%)			
Suitability (G/P)		S/P)	SA	TR		Washout?		Y/N/?		Notes					
ID		Ea	sting			Northin	ng		Ar	ea (m2)		Useable (%)			
Suitability (G/P)		G/P)	SA TR			Washout?		Y/N/?		Notes					
ID		Ea	sting			Northin	ng		Ar	ea (m2)		Useable (%)			
Suitability (G/P)		G/P)	SA	TR		Washo	out?	Y / N / ?	N	lotes					
POLLUTION, OBSTACLES, MODIFICATIONS AND SPAWNING CONT'D ON PAGE															