

Appendix 9D Electrofishing Survey 2018











STORNOWAY WIND FARM FULLY QUANTITATIVE ELECTROFISHING SURVEY

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1 INTRODUCTION

1.1 Background

Mhor Ecology Ltd was commissioned by Wood Environment & Infrastructure Solutions UK Limited to undertake fully quantitative electrofishing surveys at 19 locations, with respect to the Stornoway Wind Farm development (hereafter referred to as the Site).

1.2 Site Description

The Stornoway Wind Farm is located 2km to the west of the town of Stornoway in an area close to three existing wind farm sites. The watercourses that flow across and within close proximity to the Site are part of the Creed, Glen, Tope and Laxdale Catchment areas.

1.3 Sampling Locations

A total of nineteen sites were selected in relation to the previous surveys carried out in 2010¹. Grid references have been provided from the downstream end of each survey site. See Appendix A for site map and Appendix D for photographs.

The nineteen sites included:

- 1. Site CRE01 (Creed Catchment) NB 40250 32480;
- 2. Site CRE03 (Creed Catchment) NB 38730 32260;
- 3. Site CRE05 (Creed Catchment) NB 36800 32135;
- 4. Site CRE06 (Creed Catchment) NB 35170 32170;
- 5. Site CRE08 (Creed Catchment) NB 35594 31279;
- 6. Site CRE09 (Creed Catchment) NB 37560 31470;
- 7. Site CRE10 (Creed Catchment) NB 37655 31172;
- 8. Site CRE13 (Creed Catchment) NB 36800 30900;
- 9. Site CRE14 (Creed Catchment) NB 37565 30805;
- 10. Site CRE16 (Creed Catchment) NB 35450 30605;
- 11. Site CRE17 (Creed Catchment) NB 37510 30272;
- 12. Site GLE01 (Glen Catchment) NB 39301 33935;
- 13. Site GLE02 (Glen Catchment) NB 38093 33811;
- 14. Site GLE03 (Glen Catchment) NB 40498 34293;
- 15. Site LAX01 (Laxdale Catchment) NB 39716 35250;
- 16. Site LAX02 (Laxdale Catchment) NB 38638 36008;
- 17. Site TOP01 (Tope Catchment) NB 40360 29230;
- 18. Site TOP02 (Tope Catchment) NB 39725 29200; and
- 19. Site TOP03 (Tope Catchment) NB 38325 29150.

¹ Appendix 13 of the Stornoway Wind Farm Environmental Statement (2011).



1.4 Sampling Guidelines

Best practice Scottish Fisheries Co-ordination Centre (SFCC) procedures and guidelines² were adhered to and will be adhered to throughout future monitoring requirements.

1.5 Licencing

All electrofishing surveys were licenced by Marine Scotland under The Salmon and Freshwater Fisheries (Consolidation) (Scotland) Act 2003 (Sections 27 & 28) and The Freshwater Fish Conservation (Prohibition on Fishing for Eels) (Scotland) Regulations 2008. This allows a provision to take fish species for scientific purposes by certain methods which would normally constitute an offence. The surveys were completed under licence number CMS-18-102.

As part of the licence conditions the licence holder must notify the relevant District Salmon Fisheries Board (DSFB) one week prior to electrofishing in migratory salmonid watercourses. Notification to the Western Isles DSFB was given by email on the 12th September 2018.

2 OBJECTIVES

The overall objective of the study was to undertake fish fauna surveys at sites within and in close proximity to the Site. This baseline survey report will present an evaluation of the survey results and include recommendations for ongoing monitoring. A temporal comparison of the 2010 electrofishing survey results for this Site is included.

3 METHODS

3.1 Desktop Study

A detailed desktop study was undertaken to identify any statutory, non-statutory or designated / classified sites, relevant to the aquatic environment, within the study area (Appendix A). The following web-based sources were utilised for this:

- Scottish Natural Heritage (SNH) website (<u>www.gateway.snh.gov.uk</u>) information provided here covered the location of any designated sites, statutorily protected species or habitats;
- Scottish Environment Protection Agency (SEPA) website (<u>www.sepa.org.uk</u>) information provided here covered classified and designated waterbodies under the Water Framework Directive (WFD) and Freshwater Fish Directive (FFD);
- National Biodiversity Network (NBN) (<u>www.searchnbn.net</u>) information provided here covered localised species records, and focused on legally protected and ecologically significant species; and
- Google earth (<u>http://earth.google.co.uk</u>) satellite imagery provided detailed maps used during fieldwork.

3.2 Dates and Survey Conditions

Electrofishing Surveys were conducted between the 24th and 29th September 2018. Based on professional opinion survey conditions were moderate with normal to very high water

² SFCC (2007) - Fisheries Management SVQ Level 2 & Level 3 – Catch Fish Using Electrofishing Techniques & Manage Electrofishing Operations.



levels and good (moderate in places) water clarity. Water levels at CRE09, TOP02 and TOP03 were classed as high, CRE08, CRE16 and LAX02 was classed as very high.

3.3 Limitations of Electrofishing Surveys

The SFCC method of electrofishing was primarily developed to survey juvenile salmonids in relatively shallow running water. Non-salmonid fish species may be present and caught during these surveys, but their populations may not be properly determined using this method of electrofishing.

Electrofishing may not capture all the fish in a survey site so densities presented in this report are an estimate (either a minimum estimate, or where possible the calculation of a Zippin³ estimate, has been presented, see Section 4.1) of the juvenile salmonid population residing within the site. The absence of fish cannot be ascertained with certainty using electrofishing techniques so a density of zero does not always guarantee these fish are altogether absent from this section of watercourse.

A low density of fish can be assessed with electrofishing techniques however it is harder to fully assess the actual population density of the watercourse or the representative site. If there is a low and patchy distribution of fish it may be harder to draw conclusions from the data.

3.4 Fish Fauna

3.4.1 Electrofishing

Electrofishing surveys were carried out by a fully qualified team from Mhor Ecology Ltd, led by Leigh Kelly BA MRes (licence holder - CMS-18-102) and in full accordance with SFCC protocols. Fully quantitative methods were adopted; fully quantitative surveys use a multiple run approach and estimates of fish abundance were based on fish depletion during successive runs. Fully quantitative surveys are area based and calculate the number of fish per 100m² as per SFCC guidelines, the data collected can then be compared to other data collected year on year. For example; before, during and after construction. All fish caught were anaesthetised for processing, identified (species) and measured (fork length). Other non-salmonid species were recorded but not measured.

3.4.2 Fisheries Habitat

At each electrofishing site a detailed habitat assessment using SFCC protocol is made of the instream habitat available for juvenile and adult fish. This assessment grades the cover available to salmonids instream as none, poor, moderate, good or excellent. This grading provides an index of instream cover where diverse substrate compositions will score more favourably than areas of uniform substrate which provides lower levels of cover.

In accordance with SFCC protocols, percentage estimates of depths, substrate type and flow type are made at each electrofishing site. Additionally, percentage estimates of the quantity of the bankside cover features such as undercut banks, draped vegetation, bare banks and marginal vegetation are made. For more detailed SFCC habitat survey methodology, see Appendix C.

Further analysis was undertaken and evaluations were made for modifications and utilisation potential (juvenile and adult fish), and fisheries habitat quality along the watercourse (notably related to providing suitable instream and bankside cover for fish).

³ Zippin, C. (1956) An evaluation of the removal method of estimating animal populations, Biometrics.



When reference to left or right bank is made, it is always left and right bank when facing downstream. Photographs of each site were taken to allow the exact area of river to be identified in future surveys.

3.4.3 Age Class

The electrofishing survey concentrated on assessing the status of juvenile salmonid species, namely Atlantic salmon (*Salmo salar L*.) and brown trout (*Salmo trutta L*.). In the majority of cases age determination can be made by assessment of the length of fish present. However, with older fish it is more difficult to clarify age classes. In these cases a small number of scale samples are taken from fish, in addition to length assessments, to verify the ages of fish whose age cannot be determined with certainty from the length (Appendix B). In this survey, juvenile salmonids are differentiated into fry (0+) and parr (1++) age groups.

3.4.4 Analysis

Densities of fish were calculated separately for fry (young of the year) and parr for salmon and trout. Estimates of minimum density were calculated by dividing the number of fish caught by the area of habitat surveyed. Zippin corrections were applied where appropriate using the Removal Sampling II software (Pisces conservation)⁴. To provide a guide to the relative abundance of salmonid fish sampled during the survey, fish densities were classified per the SFCC classifications scheme⁵ Outer Hebrides region (Appendix B). Godfrey's classification scheme is area based and calculated on a one-run approach, therefore classification for this survey is based only on the first pass of the multi-run approach. Grading from very poor through to excellent are given for abundance within each quintile range and absent for no fish caught.

4 RESULTS

4.1 Fish Fauna

Table 4.1 presents fish fauna data for September 2018, minimum density classification per the SFCC classifications scheme⁵, and population estimate using Zippin³ where possible.

Site Code	*Grid Fish Reference Density & Species		Length (mm)	Classification⁵ (Based on 1 st pass)	Population Estimate ³
CRE01	NB 40250 32480	Salmon Fry: 16 Salmon Parr: 8 Trout fry: 1 Trout parr: 1	Salmon Fry: 52-66 Salmon Parr: 92- 133 Trout fry: 66 Trout parr:98	Salmon Fry: Excellent Salmon Parr: Good Trout fry: Good Trout parr: Good	Salmon Fry:18.16 Salmon Parr:8.28 Trout fry:1 (Actual Catch) Trout parr:1 (Actual Catch)
CRE03	NB 38730 32260	Salmon Fry: 27 Salmon Parr: 10 Trout fry: 1	Salmon Fry: 50-75 Salmon Parr: 96- 130 Trout fry: 66	Salmon Fry: Excellent Salmon Parr: Good	Salmon Fry: 28.24 Salmon Parr: 10.89 Trout fry: 1 (Actual Catch)

 Table 4.1: Fish Fauna Results, Classification and Population Estimates

⁴ Seaby, R.M.H. & Henderson, P.A. (2008) Population Estimation by Removal Sampling. Version 2.2.2.22, Pisces Conservation, Hampshire.

⁵ Godfrey (2005) Site Condition Monitoring of Atlantic Salmon SACs. SFCC to Scottish Natural Heritage, Contract F02AC608.



Site *Grid		Fish	Length (mm)	Classification ⁵	Population
Code	Reference	Density & Species		(Based on 1 st pass)	Estimate ³
				Trout fry: Good	
CRE05	NB 36800 32135	Salmon Fry: 34 Salmon Parr: 24 Trout fry: 1 Trout parr: 1	Salmon Fry: 57-77 Salmon Parr: 94- 129 Trout fry: 79 Trout parr: 101	Salmon Fry: Excellent Salmon Parr: Excellent Trout fry: Good Trout parr: Good	Salmon Fry: 38.48 Salmon Parr: 26.14 Trout fry: 1 (Actual Catch) Trout parr: 1 (Actual Catch)
CRE06	NB 35170 32170	Salmon Fry: 9 Salmon Parr: 6 Trout fry: 1 Trout parr: 1	Salmon Fry: 60-68 Salmon Parr: 89- 110 Trout fry: 68 Trout parr: 116	Salmon Fry: Poor Salmon Parr: Poor Trout fry: Very Poor Trout parr: Very Poor	Salmon Fry: 10.16 Salmon Parr: 6.54 Trout fry: 1 (Actual Catch) Trout parr: 1 (Actual Catch)
CRE08	NB 35594 31279	Trout fry: 2 Trout parr: 1	Trout fry: 71-74 Trout parr: 115	Trout fry: Very Poor Trout parr: Very Poor	Trout fry: 2 (Actual Catch) Trout parr: 1 (Actual Catch)
CRE09	NB 37560 31470	Salmon Parr: 4 Trout fry: 27 Trout parr: 1	Salmon Parr: 92- 105 Trout fry: 40-65 Trout parr: 183	Salmon Parr: Very Poor Trout fry: Excellent Trout parr: Very Poor	Salmon Parr: 4.04 Trout fry: 28.63 Trout parr: 1 (Actual Catch)
CRE10	NB 37655 31172	Trout fry: 23 Trout parr: 4	Trout fry: 40-62 Trout parr: 95-139	Trout fry: Excellent Trout parr: Moderate	Trout fry: 25.37 Trout parr: 4.04
CRE13	NB 36800 30900	Salmon Fry: 6 Trout fry: 29 Trout parr: 5	Salmon Fry: 47-59 Trout fry: 34-59 Trout parr: 69-155	Salmon Fry: Very Poor Trout fry: Excellent Trout parr: Moderate	Salmon Fry: 7.58 Trout fry: 30.40 Trout parr: 5.03
CRE14	NB 37565 30805	Trout fry: 22 Trout parr: 3	Trout fry: 50-75 Trout parr: 106-114	Trout fry: Excellent Trout parr: Poor	Trout fry: 23.93 Trout parr: 3.07
CRE16	NB 35450 30605	Salmon Parr: 2 Trout fry: 3 Trout parr: 2	Salmon Parr: 111- 113 Trout fry: 63-68 Trout parr: 111-114	Salmon Parr: Very Poor Trout fry: Poor Trout parr: Very Poor	Salmon Parr: 2 (Actual Catch) Trout fry: 3.07 Trout parr: 2.18
CRE17	NB 37510 30272	Trout fry: 13 Trout parr: 1	Trout fry: 58-74 Trout parr: 103	Trout fry: Good Trout parr: Very Poor	Trout fry: 13.89 Trout parr: 1 (Actual Catch)



Stornoway Wind Farm						
Site Code	*Grid Reference	Fish Density & Species	Length (mm)	Classification ⁵ (Based on 1 st pass)	Population Estimate ³	
GLE01	NB 39301 33935	Trout fry: 37 Trout parr: 9	Trout fry: 58-77 Trout parr: 99-163	Trout fry: Excellent Trout parr: Good	Trout fry: 43.14 Trout parr: 10.16	
GLE02	NB 38093 33811	Trout fry: 18 Trout parr: 6	Trout fry: 59-69 Trout parr: 83-110	Trout fry: Good Trout parr: Moderate	Trout fry: 19.61 Trout parr: 6.54	
GLE03	NB 40498 34293	Trout fry: 14 Trout parr: 5	Trout fry: 71-88 Trout parr: 110-170	Trout fry: Good Trout parr: Moderate	Trout fry: 14.75 Trout parr: 5.03	
LAX01	NB 39716 35250	Salmon Fry: 15 Salmon Parr: 6 Trout fry: 1 Trout parr: 1	Salmon Fry: 55-75 Salmon Parr: 93- 106 Trout fry: 68 Trout parr: 113	Salmon Fry: Excellent Salmon Parr: Good Trout fry: Good Trout parr: Good	Salmon Fry: 17.58 Salmon Parr: 6.15 Trout fry: 1 (Actual Catch) Trout parr: 1 (Actual Catch)	
LAX02	NB 38638 36008	Trout parr: 3	Trout parr: 104-114	Trout parr: Moderate	Trout parr: 3 (Actual Catch)	
TOP01	NB 40360 29230	Salmon Fry: 26 Salmon Parr: 15 Trout fry: 1 Trout parr: 1	Salmon Fry: 52-80 Salmon Parr: 83- 111 Trout fry: 75 Trout parr: 168	Salmon Fry: Excellent Salmon Parr: Good Trout fry: Very Poor Trout parr: Very Poor	Salmon Fry: 26.22 Salmon Parr: 16.06 Trout fry: 1 (Actual Catch) Trout parr: 1 (Actual Catch)	
TOP02	NB 39725 29200	Salmon Fry: 4 Salmon Parr: 11 Trout fry: 5 Trout parr: 6	Salmon Fry: 66-68 Salmon Parr: 96- 117 Trout fry: 60-75 Trout parr: 108-245	Salmon Fry: Very Poor Salmon Parr: Poor Trout fry: Moderate Trout parr: Moderate	Salmon Fry: 4.04 Salmon Parr: 13.38 Trout fry: 5.03 Trout parr: 6.15	
TOP03	NB 38325 29150	Salmon Fry: 1 Salmon Parr: 2 Trout fry: 23 Trout parr: 2	Salmon Fry: 63 Salmon Parr: 105- 112 Trout fry: 47-72 Trout parr: 205-248	Salmon Fry: Very Poor Salmon Parr: Very Poor Trout fry: Excellent Trout parr: Poor	Salmon Fry: 1 (Actual Catch) Salmon Parr: 2.18 Trout fry: 24.3 Trout parr: 2 (Actual Catch)	

Site 1: CRE01 (Creed Catchment)

Salmon fry were recorded in an excellent density and salmon parr were recorded in a good density. A good density of juvenile trout was also recorded. Nineteen eels and seventeen three-spined stickleback were recorded.



Site 2: CRE03 (Creed Catchment)

Salmon fry were recorded in an excellent density and salmon parr were recorded in a good density. A good density of trout fry was recorded; however, trout parr were absent from this site. Six eels were recorded.

Site 3: CRE05 (Creed Catchment)

Juvenile salmon were recorded in an excellent density. A good density of juvenile trout was also recorded. One eel was recorded.

Site 4: CRE06 (Creed Catchment)

Juvenile salmon were recorded in a poor density. Juvenile trout were recorded in a very poor density. Three eels and two three-spined stickleback were recorded.

Site 5: CRE08 (Creed Catchment)

Juvenile salmon were absent from this site. Juvenile trout were recorded in a very poor density. No non-salmonid fish species were recorded.

Site 6: CRE09 (Creed Catchment)

Salmon fry were absent but salmon parr were recorded in a very poor density. Trout fry were recorded in excellent density together with a very poor density of trout parr. No non-salmonid fish species were recorded.

Site 7: CRE10 (Creed Catchment)

Juvenile salmon were absent from this site. Trout fry were recorded in an excellent density together with a moderate density of trout parr. No non-salmonid fish species were recorded.

Site 8: CRE13 (Creed Catchment)

Salmon fry were recorded in a poor density but salmon parr were absent from this site. Trout fry were recorded in an excellent density together with a moderate density of trout parr. No non-salmonid fish species were recorded.

Site 9: CRE14 (Creed Catchment)

Juvenile salmon were absent from this site. Trout fry were recorded in an excellent density together with a poor density of trout parr. Two eels were recorded.

Site 10: CRE16 (Creed Catchment)

Salmon fry were absent but salmon parr were recorded in a very poor density. Trout fry were recorded in a poor density together with a very poor density of trout parr. Seven three-spined stickleback were recorded.

Site 11: CRE17 (Creed Catchment)

Juvenile salmon were absent from this site. Trout fry were recorded in a good density together with a very poor density of trout parr. One eel and six three-spined stickleback were recorded.

Site 12: GLE01 (Glen Catchment)

Juvenile salmon were absent from this site. Trout fry were recorded in an excellent density together with a good density of trout parr. No non-salmonid fish species were recorded.



Site 13: GLE02 (Glen Catchment)

Juvenile salmon were absent from this site. Trout fry were recorded in an good density together with a moderate density of trout parr. Eleven three-spined stickleback were recorded.

Site 14: GLE03 (Glen Catchment)

Juvenile salmon were absent from this site. Trout fry were recorded in an good density together with a moderate density of trout parr. Eighteen eels were recorded.

Site 15: LAX01 (Laxdale Catchment)

Salmon fry were recorded in an excellent density and salmon parr were recorded in a good density. Juvenile trout were recorded in a good density. Three eels were recorded.

Site 16: LAX02 (Laxdale Catchment)

Juvenile salmon were absent from this site. Trout fry were also absent but trout parr were recorded in a moderate density. Two eels were recorded.

Site 17: TOP01 (Tope Catchment)

Salmon fry were recorded in an excellent density and salmon parr were recorded in a good density. Juvenile trout were recorded in a very poor density. Four eels were recorded.

Site 18: TOP02 (Tope Catchment)

Salmon fry were recorded in a very poor density and salmon parr were recorded in a poor density. Juvenile trout were recorded in a moderate density. One eel was recorded.

Site 19: TOP03 (Tope Catchment)

Juvenile salmon were recorded in a very poor density at this site. Trout fry were recorded in an excellent density together with a poor density of trout parr. Three eels were recorded.

4.2 Fisheries Habitat (SFCC Datasheet summary)

Table 4.2 presents a summary of the habitat characteristics recorded during the electrofishing survey (September 2018).

Site Code	Fish Utilisation	Fisheries Habitat	Site Characteristics			
	Potential	Quality				
CRE01	Moderate / High	Moderate	Juvenile & adult salmonid habitat. Flow type run/riffle/glide sequences with deep pool and weir 20m upstream. Wet width ~8 m. Depth ranging from 11- 90 cm. Cobble/pebble/gravel substrate with boulder and bedrock upstream. Moderate instream cover. Undercut bank in places providing moderate bankside cover. Land use is moorland heath and road/bridge downstream.			
CRE03	High	Good	Juvenile & adult salmonid habitat. Flow type run/riffle sequences. Wet width ranging from 8-12 m. Depth ranging from 11- 75 cm. Cobble/pebble/gravel substrate with boulder. Moderate instream cover. Undercut bank both sides providing moderate/good bankside cover. Land use is moorland heath. Spawning habitat in survey area.			
CRE05	Moderate / High	Moderate	Juvenile salmonid habitat. Flow type run/riffle sequences with large pool at bottom of run (not included in survey – good adult holding area). Wet width ~8 m. Depth ranging from 21- 70 cm. Cobble/pebble/gravel substrate with boulder and small area of bedrock on left bank. Moderate			

Table 4.2: Fisheries Habitat



Site	Fish	Fisheries	Site Characteristics
Code	Utilisation	Habitat	
	Potential	Quality	
			instream cover. Undercut bank both sides providing good bankside cover. Land use is moorland heath. Spawning habitat in survey area.
CRE06	Moderate / High	Moderate	Juvenile salmonid habitat. Flow type predominantly run with glide/riffle sequences and torrent. Wet width ranging from 3-5 m. Depth ranging from 21- 55 cm. Cobble/pebble substrate with small amount of boulder. Moderate instream cover. Undercut bank both sides with vegetation rooted in riparian zone providing moderate/good bankside cover. Land use is moorland heath.
CRE08	Moderate	Moderate	Juvenile salmonid habitat. Flow type predominantly glide with run/pool sequences. Wet width 1-3 m. Depth ranging from 21-90 cm. Predominantly pebble/cobble substrate with areas of fine organic matter/silt and sand providing moderate/poor instream cover. Good bankside cover with undercut bank throughout. Land use is moorland heath. Water level classed as very high.
CRE09	Moderate	Moderate	Juvenile salmonid habitat. Flow type predominantly deep glide/run sequences with riffle in places. Wet width 2-4 m. Depth ranging from 11-65 cm. Predominantly boulder/cobble/pebble substrate with areas of fine organic matter/silt providing moderate/poor instream cover. Undercut bank providing moderate bankside cover. Land use is moorland heath.
CRE10	Moderate	Moderate	Fry (salmonid) habitat. Flow type riffle/run with a wet width ranging from 2–3 m. Depth <20 cm. Predominantly pebble/cobble/gravel with limited boulder. Moderate instream cover, moderate bankside cover. Collapsed dyke/weir upstream. Land use is rough moorland heath. Spawning habitat in survey area.
CRE13	Moderate	Moderate	Fry (salmonid) habitat with Parr (salmonid) habitat in places. Flow type predominantly run with riffle/glide sequences. Wet width 2-3 m. Depth ranging from 11-70 cm. Predominantly gravel/pebble/cobble substrate with areas of fine organic matter/silt and sand. Limited bedrock and boulder upstream section. Moderate/poor instream cover. Good bankside cover with undercut bank throughout. Land use is moorland heath.
CRE14	Moderate	Moderate	Juvenile salmonid habitat. Flow type predominantly run with riffle/glide sequences. Wet width ~1 m. Depth ranging from <10-50 cm. Predominantly gravel/pebble/cobble substrate with areas bedrock and boulder. Moderate/poor instream cover. Good bankside cover with undercut bank throughout. Discarded cattle grid recorded in mid-section. Small weir upstream – not considered to impact on fish migration. Land use is moorland heath.
CRE16	Moderate	Moderate	Parr habitat. Flow type deep glide/run. Wet width approx. 1-3 m. Depth ranging from 21-90 cm. Mix of pebble/cobble/boulder substrate with areas of bedrock and gravel throughout. Moderate instream cover. Good bankside cover. Water flow was classed as very high. Land use is moorland heath.
CRE17	Moderate	Good	Juvenile salmonid habitat. Flow type predominantly run with riffle/glide sequences. Wet width ranging from 1.5-3 m. Depth ranging from 11-50 cm. Predominantly pebble/cobble substrate at the upstream section providing good instream cover. Downstream section of sand/silt substrate considered poor instream cover. Good bankside cover with undercut bank throughout. Land use is moorland heath.



Site	Fish	Fisheries	Stornoway Wind Farm
Code	Utilisation	Habitat	Site Characteristics
	Potential	Quality	
GLE01	Moderate	Good	Juvenile salmonid habitat. Flow type predominantly run/riffle sequences with areas of glide. Wet width ranging from 2.5-3.5 m. Depth ranging from 11-55 cm. Predominantly pebble/cobble/gravel substrate providing moderate instream cover. Good bankside cover with undercut bank and draped vegetation. Land use is moorland heath. Potential spawning habitat within mid-section.
GLE02	Moderate	Moderate	Juvenile salmonid habitat. Flow type predominantly run/riffle sequences with areas of deep glide and pool. Wet width approx. 1-5 m. Depth ranging from 11-60 cm. Mix of fine organic matter/silt and sand at the downstream section caused by bank erosion. Upstream predominantly pebble/cobble/gravel substrate. Moderate/poor instream cover. Good bankside cover. Land use is moorland heath.
GLE03	Moderate	Moderate	Juvenile salmonid habitat. Flow type predominantly run/riffle sequences. Wet width ranging from 2.5-4.5 m. Depth ranging from 11-50 cm. Predominantly cobble/pebble/boulder substrate providing good instream cover. Moderate bankside cover. Land use is moorland heath and road. Bridge footing at upstream section.
LAX01	Moderate / High	Good	Juvenile & adult salmonid habitat. Flow type predominantly run/riffle/glide sequences. Wet width ranging from 8-12 m. Depth ranging from 11-60 cm. Predominantly cobble/pebble/gravel substrate with areas of boulder providing good/moderate instream cover. Good/moderate bankside cover with undercut bank in places. Land use is moorland heath. Good spawning habitat 20m from gabion baskets.
LAX02	Moderate	Moderate	Parr (salmonid) habitat. Flow type run/ glide. Wet width approx. 2.5-4 m. Depth ranging from 30-90 cm. Mix of cobble/boulder substrate with areas of bedrock and gravel/pebble throughout. Good instream cover. Good bankside cover. Water flow was classed as very high. Land use is moorland heath.
TOP01	Moderate	Moderate	Juvenile salmonid habitat. Flow type predominantly run with riffle/glide sequences. Wet width ranging from 1.5-3 m. Depth ranging from 11-65 cm. Predominantly boulder/bedrock with areas of cobble/pebble/gravel substrate providing moderate instream cover. Good bankside cover with undercut bank throughout. Land use is moorland heath.
TOP02	Moderate	Moderate/ Good	Juvenile salmonid habitat. Flow type predominantly run with riffle/glide sequences. Wet width ranging from 2.5-4.5 m. Depth ranging from 11-55 cm. Substrate predominantly boulder/bedrock with areas of pebble/cobble/fine organic matter in places. Moderate, poor in places, instream cover. Instream vegetation. Good bankside cover with undercut bank throughout. Land use is moorland heath.
TOP03	Moderate	Moderate	Juvenile salmonid habitat. Flow type run/riffle/glide sequences. Wet width ranging from 2.5-4 m. Depth ranging from 11-50 cm. Predominantly gravel/pebble substrate with areas of cobble and fine organic matter. Limited boulder/bedrock. Moderate, poor in places, instream cover. Instream vegetation. Good bankside cover with undercut bank throughout. Land use is moorland heath.

*Grid reference provided at downstream end of survey section.

4.3 Comparison of Fish Fauna

The total area fished (m^2) and exact survey location between the 2010 and 2018 surveys differs slightly. It is therefore suggested that any future fish fauna surveys replicate the



2018 survey site locations and that comparisons and/or conclusions are based only on the results of the 2018 survey.

Evaluating the results of the 2010 and 2018 surveys in relation to fish density per 100m² will provide a view of fish populations.

Salmon were recorded at over half of the survey sites. Salmon fry (0+) were recorded at nine survey sites and salmon parr (1++) were recorded at ten survey sites. In 2010, juvenile salmon were recorded at twelve survey sites. Brown trout were recorded in all watercourses surveyed. Trout fry (0+) were recorded at all survey sites with the exception of CRE05 and LAX02. Trout parr (1++) were recorded at eighteen survey sites, TOP03 the only site where trout parr were absent. In 2010, trout fry were recorded in fifteen survey sites and trout parr were recorded in eighteen survey sites.

Salmon fry densities decreased at all sites were salmon fry had been recorded when compared to data obtained during 2010. Two survey sites recorded salmon fry that had been absent in 2010 (LAX01 & TOP03). Salmon parr densities decreased when compared to data obtained during 2010 at nine sites were salmon parr had been recorded. Seven sites remained consistent in relation to salmon parr density and two survey sites recorded salmon parr that had been absent in 2010 (LAX01 & TOP03).

Trout fry densities decreased at twelve sites when compared to data obtained during 2010. Trout fry densities increased at four sites when compared to data obtained during 2010. Three sites remained consistent. The Trout parr densities decreased at eleven site when compared to data obtained during 2010. Trout parr densities increased at six sites when compared to data obtained during 2010. Two sites remained consistent. Overall, both salmon and trout have decreased significantly when compared to data obtained during 2010.

At the time of writing, it had not been confirmed if stocking had taken place prior to the 2010 or 2018 surveys.

Table 4.2.2a shows a comparison of the population estimate³ for each site surveyed in relation to trout. Where the Zippin (1958) estimation is not possible, a minimum estimate is shown.

Site Code	Salmon Fry		Salmon Parr		Trout Fry		Trout Parr	
Code	2010	2018	2010	2018	2010	2018	2010	2018
CRE01	44.68	18.16	24.68	8.28	0.20	0.93*	0.39	0.93*
CRE03	109.27	28.24	10.57*	10.89	ABSENT	ABSENT	ABSENT	1.00*
CRE05	144.14	38.48	25.17	26.14	ABSENT	0.89*	0.60	0.89*
CRE06	13.58	10.16	10.56	6.54	5.60	0.97*	4.10	0.97*
CRE08	ABSENT	ABSENT	ABSENT	ABSENT	0.69	1.88*	2.75	0.97*
CRE09	28.80	ABSENT	4.20	4.04	55.66	28.63	15.06	1.00*
CRE10	55.13	ABSENT	7.20	ABSENT	33.28	25.37	3.64	4.04
CRE13	21.08	7.58	5.75	ABSENT	265.61	30.40	4.69	5.03

 Table 4.2.2a: Comparison of Salmonid densities per 100m²



Site	Salmon Fry		Salmon Pa	arr	Trout Fry	Storn	Trout Parr		
Code	2010	2018	2010	2018	2010	2018	2010	2018	
CRE14	247.54	ABSENT	8.70	ABSENT	47.53	23.93	1.71	3.07	
CRE16	7.72	ABSENT	8.41	1.98*	22.97	3.07	0.77	2.18	
CRE17	0.76	ABSENT	0.76	ABSENT	31.32	13.89	4.58	0.88*	
GLE01	ABSENT	ABSENT	ABSENT	ABSENT	55	43.14	9.14	10.16	
GLE02	ABSENT	ABSENT	ABSENT	ABSENT	10.48	19.61	9.62	6.54	
GLE03	ABSENT	ABSENT	ABSENT	ABSENT	22.14	14.75	6.20	5.03	
LAX01	ABSENT	17.58	ABSENT	6.15	8.24	0.99*	3.37	0.99*	
LAX02	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	5.73	2.92*	
TOP01	114.72	26.22	16.06	16.06	32.07	0.94*	15.05	0.94*	
TOP02	30.28	4.04	11.90	13.38	32.05	5.03	14.45	6.15	
TOP03	ABSENT	1.00*	ABSENT	2.18	ABSENT	24.30	42.73	2.00*	

*Minimum Estimate

5 CONCLUSION

The possible impacts that any land based wind farm development and its associated infrastructure could have on surrounding fish populations are well known. The potential for fish species and their habitats to be affected by the development mainly occurs during the construction and decommissioning phases of the development. During the construction phase potential impacts include siltation from ground disturbance, accelerated or exacerbated erosion, hydrological changes, pollution, and the blocking or hindering of the upstream/downstream migration of fish. During the operational phase, concerns include the effects of poor road drainage, accelerated levels of erosion, fish access, and the maintenance of silt traps and road crossings. Potential risks during the decommissioning phase are broadly similar to those in the construction phase. These potential effects could all impact on the surrounding fish populations by causing direct mortality of juveniles and adults, changes in food availability, avoidance behaviour resulting in unused habitat, blocking of migration routes to spawning beds or the damage of instream and riparian habitats.

Results from the fish surveys in September 2018 indicated that salmon were absent from eight sites. Salmon have declined significantly from data obtained in 2010. Salmon fry were absent in CRE09, CRE10 and CRE14 compared to the good to excellent densities recorded in the 2010 survey. Salmon parr were absent in CRE09, CRE10, CRE13 and CRE14 compared to the moderate to good densities recorded in the 2010 survey. At the time of writing this report it had not been confirmed if stocking had taken place prior to the 2010 survey which would account for the significant decrease.

Trout populations ranged from very poor to Excellent and were present at all of the nineteen sites surveyed with trout fry being more prevalent at the majority of sites. Trout fry were present at seventeen sites compared to only fifteen sites in 2010. Results showed



a decrease in trout fry, from 2010 to 2018, at twelve sites where previously recorded. Five out of nineteen sites, where trout fry were recorded, showed an increase when compared to the 2010 survey. The most significant decrease in trout fry density was recorded at CRE13. Trout parr were present at eighteen sites which was consistent with previous survey in 2010, six sites recorded an increase in trout parr, eleven recording a decrease and two remained consistent. Adult trout were recorded at TOP02 and TOP03, it is considered that trout may be spawning within or in close proximity to both survey sites.

It was considered that the decrease in both salmon and trout densities could be partly attributed to the recent drought throughout the catchment (Summer 2018). It is also considered that the high/very high water levels recorded during the survey may have contributed to missed fish and had a negative impact on the results.

In addition, the significant decline of salmon across the survey area between 2010 and 2018 could be attributed to the various well documented factors⁶ including (but not limited to):

- biological characteristics (e.g. size) of salmon smolts;
- physical factors in fresh water (water flow and temperature);
- freshwater contaminants;
- predation; and
- salmon aquaculture.

6 **RECOMMENDATIONS**

Mhor Ecology Ltd. recommend that a construction and post-construction fish fauna monitoring programme is carried out utilising the same nineteen fish fauna sites as part of an ongoing assessment of potential impacts which may occur due to the Stornoway Wind Farm development.

The suggested monitoring schedules are as follows:

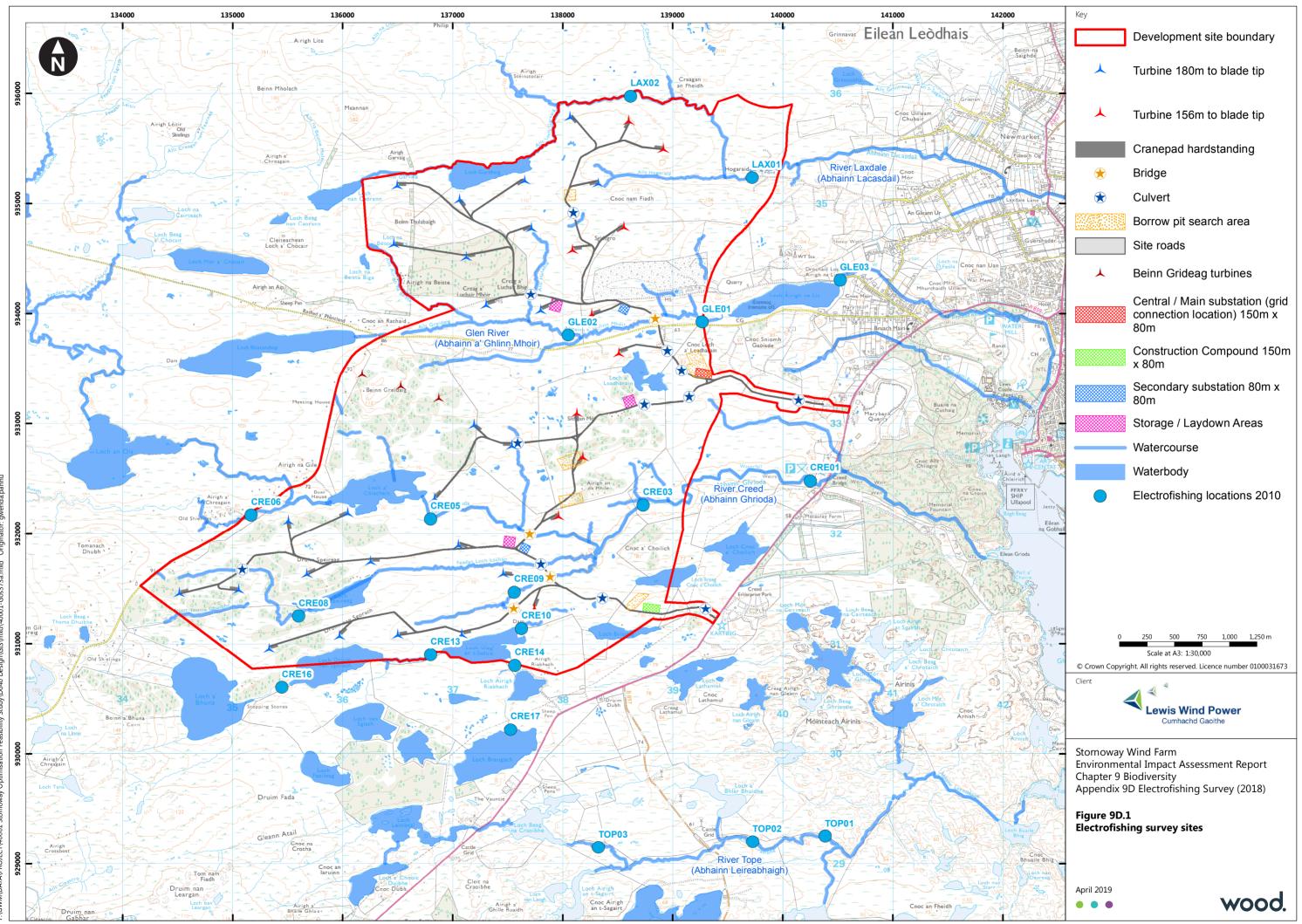
• Fish fauna – annually during construction (summer/early autumn) and postconstruction Year 1 (summer/early autumn) and Year 2 (summer/early autumn).

⁶ <u>http://www.nasco.int/pdf/reports_other/Salmon_at_sea.pdf</u> (Accessed October 2018)



APPENDIX A: FIGURES

Figure 1: Sampling Locations (see attachment)



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APPENDIX B: RAW DATA

Habitat and Electrofishing Field Sheets

(See attachment)

Table B i: Electrofishing results, Zippin estimates⁴, site dimensions, fish density and minimum estimate

Site	Age Class / Species	2018 Actual Catch	Zippin	Lower 95% confidence interval	Upper 95% confidence interval	Site Length (m)	Avg. width (m)	Area Covered m ² (Min Est.)	Minimum Est.
	Salmon Fry	16	18.16	16	23.99				14.94
	Salmon Parr	8	8.28	8	9.74				7.47
	Trout fry	1	-	1	-				0.93
CRE01	Trout parr	1	-	1	-	13	8.24	107.12	0.93
	Salmon Fry	27	28.24	27	31.44			1	26.95
	Salmon Parr	10	10.89	10	14.13				9.98
CRE03	Trout fry	1	-	1	-	10	10.02	100.2	1.00
	Salmon Fry	34	38.48	34	46.81			++	30.36
	Salmon Parr	24	26.14	24	31.16				21.43
	Trout fry	1	-	1	-				0.89
CRE05	Trout parr	1	-	1	-	14	8	112	0.89
	Salmon Fry	9	10.16	9	14.37			1	8.70
	Salmon Parr	6	6.54	6	9.04				5.80
	Trout fry	1	-	1	-				0.97
CRE06	Trout parr	1	-	1	-	26	3.98	103.48	0.97
	Trout fry	2	-	2	-				1.88
CRE08	Trout parr	1	-	1	-	61	1.74	106.14	0.94
	Salmon Parr	4	4.04	4	4.52			++	2.99
	Trout fry	27	28.63	27	32.56				26.91
CRE09	Trout parr	1	-	1	-	33	3.04	100.32	1.00
	Trout fry	23	25.37	23	30.92	·'		++	22.42
CRE10	Trout parr	4	4.04	4	4.52	38	2.7	102.6	3.90
	Salmon Fry	6	7.58	6	14.44				5.89
	Trout fry	29	30.40	29	33.84				28.48
CRE13	Trout parr	5	5.03	5	5.40	38	2.68	101.84	4.91
	Trout fry	22	23.93	22	26.64				22.00
CRE14	Trout parr	3	3.07	3	3.78	100	1	100	3.00
CREIT		2		2		100		100	
	Salmon Parr Trout fry	2	- 3.07	2	- 3.78				1.98 2.97
CRE16	Trout Iry Trout parr	2	2.18	2	3.78	49	2.06	100.94	1.98
CREIO	fiour pari	2	2.10	2		49	2.00	100.94	1.90



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Site	Age Class / Species	2018 Actual Catch	Zippin	Lower 95% confidence interval	Upper 95% confidence interval	Site Length (m)	Avg. width (m)	Area Covered m ² (Min Est.)	Minimum Est.
	Trout fry	13	13.89	13	16.88				11.50
CRE17	Trout parr	1	-	1	-	50	2.26	113	0.88
	Trout fry	37	43.14	37	53.87				35.94
GLE01	Trout parr	9	10.16	9	14.37	33	3.12	102.96	8.74
	Trout fry	18	19.61	18	23.95				17.36
GLE02	Trout parr	6	6.54	6	9.04	36	2.88	103.68	5.79
	Trout fry	14	14.75	14	17.34				13.49
GLE03	Trout parr	5	5.03	5	5.40	30	3.46	103.8	4.82
	Salmon Fry	15	17.58	15	24.64				14.85
	Salmon Parr	6	6.15	6	7.14				5.94
	Trout fry	1	-	1	-				0.99
LAX01	Trout parr	1	-	1	-	11	9.18	100.98	0.99
	Trout parr	3	-	3	-				
LAX02						34	3.02	102.68	2.92
	Salmon Fry	26	26.22	26	27.29				24.36
	Salmon Parr	15	16.06	15	19.37				14.06
	Trout fry	1	-	1	-				0.94
TOP01	Trout parr	1	-	1	-	46	2.32	106.72	0.94
	Salmon Fry	4	4.04	4	4.52				2.99
	Salmon Parr	11	13.38	11	20.98				10.95
	Trout fry	5	5.03	5	5.40				4.98
TOP02	Trout parr	6	6.15	6	7.14	31	3.24	100.44	5.97
	Salmon Fry	1	-	1	-				1.00
	Salmon Parr	2	2.18	2	3.63				2.00
	Trout fry	23	24.30	23	27.73				22.98
TOP03	Trout parr	2	-	2	-	35	2.86	100.1	2.00



Table B ii: Quintile ranges for juvenile salmonids (per 100 m2 of water) in different river width classes, based on multi-run electrofishing method, calculated on densities >0 over 50 sites in the Outer Hebrides Statistical Region (Godfrey, 2005)

	<4 m	4 – 6 m	>6m
Salmon 0+			
0th percentile	1.2	0.5	0.9
20th percentile	4.1	1.9	1.5
40th percentile	7.4	2.7	2.8
60th percentile	12.4	5.3	3.6
80th percentile	18.7	8.2	7.2
100th percentile	167.3	15.8	10.9
Salmon 1++			
0th percentile	1.0	0.7	1.0
20th percentile	3.1	3.9	1.7
40th percentile	6.8	5.0	2.0
60th percentile	10.1	7.2	3.7
80th percentile	17.2	10.2	7.5
100th percentile	40.4	13.5	13.2
T			
Trout 0+	0.6		
Oth percentile	0.6	1.1	0.2
20th percentile	2.1	1.9	0.3
40th percentile	3.5	2.2	0.5
60th percentile	6.8	4.8	0.9
80th percentile	13.1	9.0	2.5
100th percentile	56.3	11.8	8.5
Trout 1++			
Oth percentile	0.7	0.4	0.2
	1.6	0.6	
20th percentile	2.8	0.7	0.2
40th percentile		-	
60th percentile	4.9	1.9	0.5
80th percentile	8.4	3.7	1.3
100th percentile	38.1	5.7	2.1

Table B iii: Salmonid density classification - categories (Godfrey, 2005)

Density in regional classification	Descriptive category used in text
Min to 20th percentile	Very poor
20th to 40th percentile	Poor
40th to 60th percentile	Moderate
60th to 80th percentile	Good
80th to 100th percentile	Excellent



						300000	ay wind re	
Table B	Table B iv: Age class and scale samples							
	Site Code							
	CRE03	CRE05	CRE06	CRE08	CRE09	CRE13	GLE02	LAX01
Age Class	length mn	ו					,	
Trout Fry (0+)				74	65	72	83	
Trout Fry (1++)					183			
Salmon Fry (0+)	75							75
Salmon Parr (1++)		129	89					



APPENDIX C: SFCC GENERAL HABITAT SURVEY

The Scottish Fisheries Co-ordination Centre (SFCC) developed a general habitat survey method that addresses the needs of fisheries managers and researchers. It was specially developed to assess habitat for juvenile salmon and trout and not used to evaluate habitat for other fish species.

Although a full SFCC habitat survey (which involves surveying the whole river and its tributaries) was not undertaken, smaller but detailed general habitat surveys were undertaken at each electrofishing site.

The survey methodology takes into account many recording requirements and information gathered about river stretches using SFCC fish habitat survey protocol can be used by trained interpreters and within reason to:

- > Evaluate quality of habitat for juvenile salmonids
- > Identify the potential location of salmonid spawning gravels
- > Identify stream stretches that would benefit from habitat improvements
- Target areas for stocking
- > Identify and classify point pollution sources
- > Identify and grade obstacles to fish migration
- > Identify location and type of past channel/bank modifications

Juvenile salmonids have specific habitat requirements. For example, water quality, shelter, feeding territory and availability of food. Table A below describes some basic habitat requirements for different life stages of salmon and trout. The precise habitat requirements for each species and life stage are extremely complex, and have therefore been simplified here.

Life Stage	Salmon	Trout
Eggs/alevins	Golf ball to tennis ball sized 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	Golf ball to tennis ball sized substrate, fast flowing, shallow broken water	Golf ball to tennis ball sized substrate, slow to medium flowing shallow water, often concentrated at stream margins
Parr	Tennis ball to football sized 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

Table A: Age class habitat requirements of salmonids



Life Stage	Salmon	Trout
Adults	Deep pools	Deeper areas, sustained flow but not too fast, undercut banks, tree roots, good instream vegetation and large rocks

• Method

The habitat survey is undertaken after electrofishing the site has been completed.

General definitions

o Instream cover

At each site a subjective assessment was made of the instream habitat available for older (parr-aged) fish. This assessment graded instream cover present as none, poor, moderate, good or excellent.

> None - No cover; stream bed composed entirely of fine uniform particles (e.g. silt, sand, gravel, pebbles) or continuous hard surfaces (bedrock, concrete).

 \succ Poor - Little cover; stream bed composed predominantly of fine to medium particles (e.g. gravel, pebbles and cobbles), little or no cover from aquatic vegetation.

> Moderate - Moderate cover; stream bed composed of a mix of substrate sizes (e.g. gravel to boulders) and/or with some areas of Good cover (e.g. pebbles, cobbles, boulders), which may or may not have some aquatic vegetation cover.

>Good - Good cover; stream bed composed predominantly of medium to large size substrate (e.g. pebbles, cobbles or boulders) and/or with some aquatic vegetation cover.

> Excellent - Excellent cover; stream bed composed predominantly of large size substrate (e.g. cobbles and boulders) and/or with extensive aquatic vegetation cover.

o Site area

The site length is taken along with wetted width, bed width and bank width at a representative number of points within the site. This gives a value for the area fished in order to calculate the Zippin (1958) estimate (number of fish per 100 m2).

o Water depths

The survey stretch wetted area is recorded as percentage depths in six categories:

- ≻ <10 cm
- ▶ 11-20 cm
- ▶ 21-30 cm
- ≻ 31-40 cm



➤ 41-50 cm

≻ >50 cm

o Substrates

In each survey stretch the percentages of each substrate type is recorded. Substrate is always recorded from the point of view of fish cover.

- ➢ High organic Very fine organic matter
- > Silt Fine, sticky, mostly inorganic material
- > Sand Fine, inorganic particles, <=2 mm diameter
- > Gravel Inorganic particles 2-16 mm diameter
- > Pebble Inorganic particles 16-64 mm diameter
- > Cobble Inorganic particles 64-256 mm diameter
- > Boulder Inorganic particles > 256 mm diameter
- Bedrock Continuous rock surface
- > Obscured Something obscuring substrates that cannot physically be moved

o Flows

Flow percentages of the survey stretch wetted are recorded.

Table B: Flow percentages and descriptions

Flow type	Description
Still margin	<10 cm deep, still or eddying
Deep pool	>=30 cm deep, water slow flowing, smooth surface appearance
Shallow pool	<30 cm deep, water slow flowing, smooth surface appearance
Deep glide	>=30 cm deep, water flow moderate/fast smooth surface appearance
Shallow glide	< 30 cm deep, water flow moderate/fast, smooth surface appearance
Run	Water flow fast, unbroken standing waves at surface, water flow silent
Riffle	Water flow fast, broken standing waves at surface, water flow audible
Torrent	White water, chaotic and turbulent flow, noisy and difficult to distinguish substrates

o Bankside cover

For each bank the percentage of bank length creating physical cover for fish in the site is recorded under the following categories:

> Undercut - Fish cover provided by undercut banks.



> *Draped* - Fish cover provided by vegetation rooted on the river bank and draping on to the water surface.

> Bare - No cover for fish, or fish cannot get to the cover due to lack of water.

> *Marginal* - Fish cover provided by plants rooted in the stream bed (includes tree roots). Fully aquatic vegetation is excluded from this category.

Root – Tree roots providing cover for fish

> *Rock* – Rock providing bankside cover for fish, excluding that on the bed of the channel which provides cover

> Other – Any other feature providing cover for fish

o Bank face vegetation

For each bank the predominant vegetation structure on each bank face. Vegetation must be rooted on the bank face and/or overhanging the bank face. Information is characterised in the following categories:

 \succ Bare – Predominantly bare ground (or buildings/concrete), <50% vegetation cover.

> Uniform – Predominantly one vegetation type, but lacking scrub or trees.

> Simple – predominantly 2-3 vegetation types, with or without scrub or trees, but including tall and short herbs (e.g. nettles and grasses).

> Complex – Four or more vegetation types which must include scrub or trees.

Vegetation type does not refer to which species of plant are present. Reference is made primarily to structural complexity (e.g. short grasses versus long grasses/nettles versus taller trees).

o Overhanging boughs

For each bank the percentage of bank length is recorded where there are branches from trees and shrubs rooted in the riparian zone overhanging the site.

o Canopy cover

The percentage of the site (wetted area) which is covered by overhanging branches is estimated.



APPENDIX D: PHOTOGRAPHS



Plate 1 – CRE01

Plate 2 – CRE03



Plate 3 – CRE05

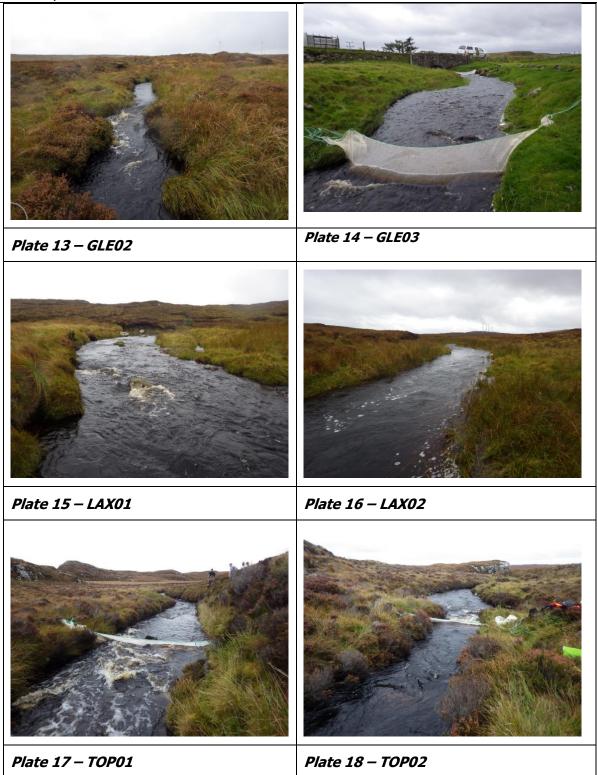
Plate 4 – CRE06

















Fully Quantitative Electrofishing Survey Stornoway Wind Farm APPENDIX E: SFCC DATASHEETS SEPTEMBER 2018

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Substrate	HO	SI	SA	GR	PE	CO		BE	01
Percent	0	0	5	15	15	30		10 inorg. part 2-16	0
Percent [Definitions: ap.; silent DG	SM SM <10cm >=30cm; ma	DP /O	smooth ap.; s	0 3 llent DP >=3 SG <30em; t	Ocm; slow/e	SG O ddy: smoo	RU 35 wh ap.; silent	RI 25 SP<30cm; slo	
RI fast; broken	SM <10cn >=30cm; me wavys; aud	n; still/eddy, od/fast; smo ible TQ wh	smooth ap.; s oth ap.; silent ite water; nois	llent $DP >= 3$ SG <30em; r y; substrate ii	Oem; slow/e tod/fast; sm wisible}	0	35 wh ap.; silent silent <i>RU</i> fast	25	0
Percent [Definitions: ap.; silent DG RI fast; broken Flow notes; Bankside (%)	SM <10cn >=30cm; me wavys; aud	n: still/eddy, od/fast; smo ible 70 wh	smooth ap., s oth up.; sitent ite water; nois	ilent <i>DP</i> >=3 SG <30em; r y: substrate in SE	0em; słow/e nod/fast; sm wisible}	outh ap.1 1	35 sth ap.; silent silent RU fast GE	SP <30cm; slo unbroker way	weddy, sm
Percent [Definitions: ap.; silent DG RI fast; broken Flow notes; Bankside (%)	SM <10cn >=30cm; me wavys; aud	n: still/eddy, od/fast, smo ible TO wh	smooth ap., s oth up.; sitent ite water; nois	llent $DP >= 3$ SG <30em; r y; substrate ii	0em; słow/e nod/fast; sm wisible}	outh ap.1 1	35 wh ap.; silent silent <i>RU</i> fast	SP <30cm; slo unbroker way	0
Percent [Definitions: ap.; silent DG RI fast; broken Flow notes; Bankside (%) .B BB	5M <10cn >=30cm; m wavps: aed H1GM	ti still/eddy, od/last; smo ible 70 wh U	smooth ap., s oth ap.; sitent ite water; nois	Ilent DP >=3 SG <30em; r y; substrate ii SE	0 0 0 0 0 0 0 0 0 0 0 0 0 0	o ddy: sunov ooth ap.; y AU	35 sth ap.; silent silent RU fast GE BA	SP <30cm; slo unbroker wav	Weddy, sm s; silent
Percent [Definitions: np.; silent DG RI fast; broken Flow notes: Bankside (%) LB RB Definitions: (or fish can't get Fotal LB fish .B bankface v .B bankface v .B bankface v	SM <10cn >=30cm; m wavps: aud 	t banks DR to lack of s iniform	smooth ap., s oth ap.; silent, ite water; nois E.C Vegetation roc vater MA veg Total RB f Simple./ Con	itent DP >=3 SG <30em; r y: substrate in SE DI teed in riparia rooted in stre ish cover: nplex	Ocm: slow/e nod/fast; sm wisible} A A None: bran am bed/bm/ RB bank	ddy: smoo ooth ap.; s FAU FAU ich/leaves k incl. tee %	35 oth ap.; silent silent RU fast GE BA SS touch or almo roots; excl. fi ; Bare Unit	SP <30cm; alo unbroker wav 0,5	AA BA no co J
Percent [Definitions: np.; silent DG RI fist; broken Flow notes: Bankside (%) LB RB Definitions: (or fish can't get Fotal LB fish .B bankface v	SM <10cn >=30cm; m waves: aud 	t banks DR t banks DR t banks DR t banks DR t banks DR t banks DR	sinooth ap., s oth ap.; silent, ite water; nois SEC - Vegetation roc vater MA veg Total RB f Simple / Cor Simple / Cor RB overl GA / IG / IN	Itent DP >=3 SG <30em; r y: substrate in SE Ot oted in riparia rooted in stre ish cover: uplex tang, bough	Ocm: slow/e nod/fast; sm wisible} A A C C C C C C C C C C C C C C C C C	ddy: smoo ooth ap.; s TAU TAU face veg face veg top veg.: .% Ci	35 silent RU fast silent RU fast GE BA SS touch or almo roots, excl. fi Bare Uniff Bare Uniff mopy cover	SU / TH / TL	Veddy; sm s; silent AA BA no co J Complex Complex

OPENS UP WITH BED ROCK SLOPE

CRED

GENERAL ELECTROFISHING HABITAT SURVEY

Easting 1387300 metres Northing 92260 metres Site code CRED3 Date: 26.9.18

A-1		At		Vet width	Bed	width	Bank w	idth		
		0 metres		8.9	1					
B				9.4		_				
D				12-1					Site ler	igth:
E		_		10.6		_			D	
F				12.1					And a later of the owner	meti
G							1			
H										
J - Dos			_							
3 - 1104	vost.					_	1			
Depths (cm	1	11.20	1				_			
Percent) <10	5	15	25	41-50	>50	-			
			112	16-	42	1.4-				
Substrate Percent	HO	SI	SA	GR	PE	0	Q B	0	BE	QB
	s: HO v. fine	0	2	123	50	5	0 1.		2 1	0
Flow Percent	<u>SM</u> S 2 <i>SM</i> <10cm, 3 >=30cm, mod	DP O	SP O	Z	0	SC O	60	R		0
ankside (%)		UC								
		0		08	2		100.4			_
		95		the second se			BA		MA	
8	UC undervat h	25		0			3		0	
.B B Definitions: fish cm't ge	UC undereut h t to cover due to cover:	anks DR vej o lack of wan	etation roo er MA veg 'otal RB fi	oted in riparia	n zone; bri	meh/leave ak incl. tro	5/3	ast touch ; fully agent	0	o cove
B B finitions: fish can't ge atal LB fish	cover:	>	otal RB fi	eted in riporia moted in star ish cover:	n zone; bn	.96	s touch or alm	tutty aquat	O surface BA no ic veg.	
.8 Definitions: r fish can't ge otal LB fish B bunkface	veg.: Bare / U	≥% 7 Inifann /€i	otal RB f	eted in riporia moted in sur ish cover:	n zone: bn	96 kface veş	s touch or alm cc roots; excl.	form Si	ic veg.]	blex
.B Definitions: r fish can't ge otal LB fish B bankface B banktop v	veg.: Bare / Uveg.: Bare / Ur	>% 7 Iniform / Su	otal RB fi	sted in riporia moted in star ish cover: 1 uples uples	n zone; bn am bed/be RB ban RB ban		s touch or alm ce mots; excl. g.: Bare / Un	iform Si	ic veg.	blex
.8 Definitions: fish cmi't ge otal LB fish B bankface 3 banktop v 3 overhang.	veg.: Bare / Ur eg.: Bare / Ur boughs:	>% 7 Iniform / Su	otal RB fi	sted in riporia moted in star ish cover: 1 uples uples	n zone; bn am bed/be RB ban RB ban		s touch or alm ce mots; excl. g.: Bare / Un	iform Si	ic veg.	olex
. <u>B</u> <u>Definitions</u> : r fish can't ge otal LB fish B bankface B banktop v 3 overhang	veg.: Bare / Ur eg.: Bare / Ur boughs:	>% 7 Iniform / Su	otal RB fi	sted in riporia moted in star ish cover: 1 uples uples	n zone; bn am bed/be RB ban RB ban		s touch or alm cc roots; excl.	iform Si	ic veg.	olex
.8 Definitions: t fish can't ge otal LB fish B bankface B banktop v B overhang, enkside note	veg.: Bare / U veg.: Bare / U veg.: Bara / Ur boughs:	>% 7	otal RB fi	ted in ripuria moted in stra ish cover: mples uples tang. bough	n zone: bn am bed/ba RB ban RB ban is:	kface veş ktop veg. % C	s touch or alm ce roots; excl. g.: Bare / Un : Bare / Un anopy cover	iform Si	Def / Comp Def / Comp Def / Comp %	olex
.8 Definitions: fish can't ge otal LB fish B bankface 3 banktop v 3 overhang, mkside note n, landuse: uipment Ty nd:73 use	veg.: Bare / U veg.: Bare / U eg.: Bare / U boughs: boughs: es: AR / BL / CP	Iniform / Su niform / Su Norm / Su N	otal RB fi mple Com RB overh /IG /IN/ 220	ated in ripuria rooted in star ish cover: (nplex aplex bang, bough (O) NC / Amps: ().	RB ban RB ban RB ban RB ban oR / OW	kface veg ktop veg % C 7/ RD / R	s touch or alm cc roots; excl. :: Bare / Un :: Bare / Un	iform Si form Sin SU / TH cetive fis	And the second s	blex lex
.8 Definitions: fish can't ge otal LB fish B bankface B banktop v 3 overhang, mkside noti m, landuse: uipment Ty nd:23, µSe im leader:	veg.: Bare / U veg.: Bare / U eg.: Bare / Ur boughs: boughs: ex: AR / BL / CP rpe : GEN / E :m ⁻¹ Temp!/ L	> % 7 Iniform / % iform / % > % //FW/GA	otal RB fi mple Car RB overh /IG /IN / 228 e/7:55 No of sta	ated in ripuria rooted in sur ish cover: (uplex aplex tang. bough (OP) NC / Amps: (Stopnet: L	RB ban RB ban RB ban RB ban OR / OW	kface veş ktop veg, % C // RD / R OTE PI BO / NO	s touch or alm cc roots; excl. :: Bare / Un :: Bare / Un	iform Si form Sin SU / TH cetive fis	And the second s	blex lex
.8 Definitions: r fish cau't ge otal LB fish B bankface B bankface B banktop v 3 overhang ankside noti can landuse: uipment Ty nd:73 µSe im leader: cking? Y / Notes: F(3)	veg.: Bare / U veg.: Bare / U boughs: boughs: est AR / BL / CP pe : GEN / G m ⁻¹ Temp!/ L · Pollut	> % 7 Iniform / % iform / % > % //FW/GA	otal RB fi mple Car RB overh /IG /IN / 228 e/7:55 No of sta	ated in ripuria rooted in sur ish cover: (uplex aplex tang. bough (OP) NC / Amps: (Stopnet: L	RB ban RB ban RB ban RB ban OR / OW	kface veş ktop veg % C // RD / R OTD Pl BO / NO taken &	s touch or alm ce roots; excl. 4: Bare / Unit Bare / Unit anopy cover P / RS / SC / ULSED Eff Water: LC IDS?; Y	iform Si form Sin SU / TH eetive fis	A million BA million B	blex lex / N COL / N
LB RB Definitions: r fish can't ge otal LB fish B bankface B bankface B bankface B bankface ankside noti cn. landuse: pripment Ty ond:TS_pso am leader: picking? Y / Notes: Fish Fast	veg.: Bare / U veg.: Bare / U eg.: Bare / Ur boughs: boughs: ex: AR / BL / CP rpe : GEN / E :m ⁻¹ Temp!/ L	ACK Votes	otal RB fi mple Com RB overh /IG / IN / 220 No of stu 3872	sted in ripuria moted in star ish covers. aples ang. bough ang. bough (ap) NC / Ampsz . Stopnet: L afr. 3	n zone: bri am bed/ba RB ban RB ban IS: O OR / OW (SMO IP / DO / Photo ZZ 43	kface veg ktop veg % C // RD / R OTD Pl BO / NO taken &	s touch or alm cc roots; excl. :: Bare / Un :: Bare / Un	iform Si form Sin SU / TH eetive fis	A million BA million B	iex lex

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CREOD

GENERAL ELECTROFISHING HABITAT SURVEY

Easting: 136800 metres Northing: 932135 metres Site code CLED5 Date: 24-9-18

A - Ups		At	11.61	width	Bed y	vidth	350	nk width	•	
B	He .	0 metres	~	Sm	-		-			
C		_		Siri			-		-	Site lengt
D						_				V D
E										ENT II
F										14
G							-	_		IT
H									_	
J - Dowr	est.								-	
	-									
Depths (cm) Percent	<10	11-20	21-30	31-40	41-50	>50	-			
rettent	0	(45	35	10	10	_			
Substrate	HO	SI	SA.	GR	PE	C	5 1	80	BE	0
Percent	0	0	0	15	35	30		10	5	-
Flow Percent	SM O SM <10cm	DP 23	SP O	4 C		SG	44		RI O	TC
Flow notes:	wayes, indi	ble TQ white	water; nony;	ter	wisible]	анош ар.,			1	
Flow notes: Bankside (%) LB	wayes, indi	UC	water; nony;	substrate it	wisible]		BA O			MA
Flow notes: Banktide (%) LB RB Definitions: or fish can't get	UC undercut	UC	getation roote		n zone; bra		BA O O			MA 2 2
RI tast; broker Flow notes: Baokside (%) LB RB (<i>Definitions:</i> or fish can't get Total LB fish LB bankface LB bankface LB bankface	UC undercut to cover due cover: 2	banks DR vc to Inck of wat Uniform Si	getation roote ter MA veg ro Fotal RB fis	bitate is DF DF DF DF DF DF DF DF DF DF	n zone; bri an bedfba ZO RB ban RB ban	nclvlenve nk incl, to .% kface veg ktop veg.	BA O o s touch re roots g.: Bare	or almost exct. full e / Unifie / Unifie	touch surfu y aquatic ve	MA D Ce BA no B-1 e / Comple
Flow notes: Bankside (%) LB RB (<i>Definitions:</i> or fish can't get Total LB fish LB bankface LB bankface	UC undercut to cover: 2 veg.: Bare (boughs: 5	UC banks DR ve to lack of wat 9% 1	getation roote er MA veg ro Fotal RB fisi imple / Comp RB overha	bitrate is DF DF ot ot ot ot ot ot ot ot ot ot	n zone; bn an bed/ba ZO RB ban RB ban hs:	inclulenve nk incl, tre % kface veg ktop veg. % (BA O S touch 2 roots 2 : Bare : Bare : anopy	or almost exct. full / Unifie / Unifier / Cover: .	touch surfa y aquatic ve	MA

						ne /					-		Exce)	7.18
	Sall		eam co	ver: Sal-		Sa3+	Poor Sa4		Tre		Trl+		Tr2+	~	73+	Tritt
Present						0	1		1	1				-		
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mm	1	2	3	4	mm 90	1	2	3	4	156	1	4	1 1	210	-	
30 1		1	1	1	1 91	1	1	-	/	1.52	- 1		11	1 211	1-1	
32	_			1	92	-	1			153				213		
34		-	-	-	94	1	1	-	-	154		-		215		
35		1	-	1	96	-	1	-	-	156				216		
37		1-	-	-	98	11	-	1		157				218	-	
30 /		1	1	1	1 22	1	1	-	-	160				219	11	
40				1	101	III	-			1 161				221		
4	_	-		-	103		1	-		162				323		
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77	_	1			136				-	195				- 1		
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79 80 81		-	1		140					199 280				12	11	6
82		-	1		141					201 1		-	-		1	7
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8.X.	12.0	(2+	5	-	149			[209						
Scales	:129	LET	1													

Other	species:.	1=0	1 1													
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Site no	ntes: Fe	~ f	shed	M	1150	d d	ve.	te.	high	-	stro	29	+1.	2		
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2	awan	Mai	5170	- 1		104			÷.			X	XCC	16	J.	* -
11	awing up/s	121	100	0	127 1	391	TRO	aut	1-	7	97		, ce			

CKE06

UP Dw

GENERAL ELECTROFISHING HABITAT SURVEY

Easting: 35170 metres Northing: 932/70 metres Site code ClE06 Date: 24.9.18

A - Upst B C		At 0 metres	1	t.4a	Bed w	nam	Bank w	ath		
		- (Crowloodal)	ε	t. 6m						
				5.6					Site	e length;
Ð			3	1.9					76	
E			3	.4		_	-		20	metr
F					_	-	(
G H		_		_						
<u>n</u>		_					-			
J - Downs	<i>a</i> ,				-					
Depths (cm)	<10	11-20	21-30	31-40	41-50	>50	1			
Percent	0	0	25	35	15	15	1			
Substrate	но	SI	F.4.	CD	01	1 8		0 1 4		0.00
Percent	0	0	SA O	GR	20	40	a contract of the second se	Concession of the local division of the loca	U	OB
Substrate not	SM	DP	SP		G	SG	RU	RI		то
Percent	0	D	0	26	2	D	Ð	10		10
.8 18		40		40			8		10	
Definitions: (C undereut b	anks <i>DR</i> ve	getation roo	ted in ripari	an zone, bu	metolenve	s touch or al	most touch s	arface /	A no cov
t fish can't aet t	7.	2 0.0 m	fotal RB fi	ish cover.	cam bed/ba	nk mel, tre	ze roots; excl	l, fully aquati	C YCE/	
COMPACT NEWS	cover:									
otal LB fish e				noley	RR ban	Life on your	. Dam Cu			
otal LB fish o B bankface y	eg.: Bare(1	Iniform / Si	imple / Con	nplex.	RB ban	liface vej	g.: Bare ()	nifora / Sin	nple / (Complex
'otal LB fish e B bankface v B banktop ve	eg.: Bare (1 g.: Bare (1	niforn / Si	mple / Con nple / Com	plex	RB ban	ktop veg	: Bare /Gr	iferm / Sim	nie / C	Complex Complex
otal LB fish o B bankface v B banktop ve	eg.: Bare (1 g.: Bare (1	niforn / Si	mple / Con nple / Com	plex	RB ban	ktop veg	: Bare /Gr	iferm / Sim	nie / C	Complex complex
otal LB fish o B bankface v B banktop ve B overhung, l ankside notes	eg.: Bare (1) g.: Bare (1) boughs: Mos - (Initiant / Si niterni / Sir 2	imple / Con nple / Com RB overh	inplex inper boug	RB ban bs: Circ	ktop veg /% (:: Bare / 👍 Janopy cov	ufern / Sinn /er:	ple/C	omplex
otal LB fish o B bankface v B banktop ve B overhang, l ankside notes en, landuse: /	eg.: Bare (1) g.: Bare (1) boughs: (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	P/FW/G/	mple / Com nple / Com RB overh	nplex name boug	RB ban ths: Core / OR / OV	ktop veg 2% (//RD/F	: Bare / Gr Canopy cov	er: O	ple/C %	omplex WL
otal LB fish o B bankface v B banktop ve B overhang, l ankside notes en, landuse: / poinment Typ ond:7.3	eg.: Bare Li g.: Bare Li boughs: AR / BL / Cl m ⁻¹ Temp:	Differnt / Si nifernt / Si 2	mple / Con nple / Com RB.overti Accord Acc	Amps: D	RB ban ths: /OR /OW 4SMC	ktop veg /% (//RD/I X/RD/I	TBare / Gr Tanopy cov	rer:	pie / C % / TL /	omplex WL
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A - Upst.	At 0 metres	Wet	9	Bed w	idth	Bank wid	th	
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C D		2.		_				Site length:
E		2.	6					S.Imetres
F G								
11			_					
J - Downst.								
Depths (cm)	<10 11-20	21-30	31-40	41-50	>50	ī.		
	0 0	10	10	35	45	1		
Substrate HO	SI	SA	GR	PE	CO	BO	BE	OB
Percent 5	15	5	15	30	20	2 5	0	0
Percent Contract Cont	Ocm; still/eddy; s	mooth ap., sile	4 cnt DP >=3	locm: slow/	eddy; smo	oth ap.; silent.	SP ≤0em: sk	w/eddy; smooth
Bankside (%)	UC		DI	R		BA	1	MA
	/00		0			0	0	
В					6		0	
.B RB Definitions: UC and	iercui banks DR	egetation root mer MA veu r	ted in ripuri	at zoie; bri can bel/bi	nch/leaves	touch or almo	est touch surfin	ce RA no cover
LB RB Definitions: UC and or fish can't get to cove Fotal LB fish cover: LB bankface veg.: B LB banktop veg.: Ba LB overhang, bough	tercut banks DR v r due to lack of w 2.2. %	Total RB fis Simple / Con imple / Com RB overh	noted in str sh cover: nplex plex any, bone	RB ban RB ban	ak incl. tre 196 kface veg ktop veg,	e roots; escl. I e: Bare (Uni : Bare (Unif	form) Simple	e / Complex
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ercent Definitions: S a silent DG > I fast; broken v low notes; ankside (%) B Definitions: U fish can't get b otal LB fish c S bankface vo S bankface ve	M «10car; s =30cm; mod/ www.es; audihl C undereut b o cover due to over; 2: eg;: Bare / U/ soughs: 2 AR / BL / Cl e : GEN / B n ⁴ Tempf: - KEL	UC TO white TO white TO white TO TO TO TO TO TO TO TO TO TO	ooth ap.: sile ap.: silent S water; notsy; getation mode er MA veg n otal RB fis mple Com RB overha 2 1 - 62 1 - 6	ent DP >=3 G <30cm; n ministrate in OR O ed in riparia ooted in stre th cover: o uplex stex ang, hough MH NC/ AmpsO	Corrections of the second seco	eddy: smo moth up.; neh/leaver d. incl. tre .% kface veg ctop veg. 2.% C	30 oth ap.: silent <i>RU</i> fian silent <i>RU</i> fian BA Co tinuch or almo e roots: excl. f : Bare / Unifi anopy cover P / RS / SC / JLSED Effe	SP <30cm; s unbroken w st touch surf ully aquatic v form Simpl orr Simpl SU/TH/1 settive fishin	MA Za Za Za Ince BA no course.] D/ Complex 6/ Complex 6

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REIC

137625 GENERAL ELECTROFISHING HABITAT SURVEY 131140 Easting 356 metres Northing 37776 metres Site code CE Control Date: 27-9-18

Widths (m)	At	Wet width	Bed width	Bank width	
A - Upst.	0 metres	2.11			1
8		24			
C		2.7			Site length:
D		3.1			20
E		29			5. M. metres
F					
G					G I IA ale
Ĥ					Start 10m UDD
1					1 1 0
J - Downst.					from deer know

Depths (cm)	<10	11-20	21-30	31-40	41-50	>50
Percent	0	0	10	30	40	20

Substrate	HO		SA	GR	PE	CO	BO	BE	OR
Percent	0	0	0	25	30	35	10	0	0

[Definitions: HO v. fine org. matter SI inorg. indiv. part. invisible SA inorg. part. <= 2mm GR inorg. part 2-16mm PE inorg. part 16-64mm CO inorg. part 64-256mm BO inorg. part >256mm BE cont. rock surface OB wood barrels etc; cannot move]

Instream v	cg: A	, Silted?: Y	The s	Substrate: St	able / Unstal	le & Compa	cted Partiv	Uncompacte
Substrate r	ntes: ha	te hi	al -	Clasa	End			e ne su guers
S .		TIT	11 11 7	TT I	TT Adde to the second	+h18131(1000-1))(1))	*****	
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	wring,	habidas	t three	rgat	sectio	5		
Flow	SM	nachastas DP	A Thru	DG	SECTIO	RU	RI	TO

[Definitions: SM <10cm; still/eddy; smooth ap.; silent DP >=30cm; slow/eddy; smooth up.; silent SP <30cm; slow/eddy; smooth ap.; silent DG >=30cm; mod/fast; smooth ap.; silent RU fast; broken waves; audible TO white water; noisy; substrate invisible]

Flow notes:

Bankside (%)	UC	DR	BA	AL.
.8	100	Ø	(2)	ma
RB	100	0	0	

[Definitions: UC undereut hanks DR vegetation rooted in riphrian zone; branch/tenves touch or almost touch surface BA no cover or fish can't get to cover due to lack of water MA veg rooted in stream bed/bank incl. tree roots; excl. fully aquatic veg.] Total LB fish cover: 30 % Total RB fish cover: 30 %

LB bankface veg.: Bare / Uniform (	Simple? Complex	RB bankface	veg.: Bare / Uniform	Simple / Country
LB banktop veg.: Bare / Uniform (	simple Complex	RB bankton v	eg :: Bare / Uniform	and complex
LB overhang. boughs:			Canopy cover:	
Rankrido notes		Party in the second second	canopy cover:	TTTTTTTTTTTTT

Gen. Innduse: AR / BL / CP / EW / GA / IG / IN MH NC / OR / OW / RD / RP / RS / SC / SU / TH / TL / WL

Equipment Type : GEN / BACK Volte 300 Amps. 0.4 MOOF PULSED Effective fishing?: (V) N Cond: 12 JuSem' Temp!! '1"C Time 12 D Stopnet: UP/DO/80/NO Water: LO/ME (De CIP COL Team leader: L-KELLY No of staff: Photo taken & IDS?: Y //N Stocking? Y / Pollution? Y / SP Notes:...

NB 37655 31172

		Įasti	ream co	ver:	Noi	16 /	Poor	1	Mode	rate (	Good	D	Excel	lent		
	and the second se	10+	Sal+	Se2	+	Sa3+	Sa4	++	Tro	+	Trl÷	17	772+	Tr	3+	Tri
Pres	ent		1	-			1.	_	11/10			-			_	_
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35	-	1-	-	-	1.95	1				155		-	-	215		1
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CREAT

138600 GENERAL ELECTROFISHING HABITAT SURVEY 930100 Continue 121500 metres Northing 121120 metres Site code CLE 13 Date 27.9.18

Widths (m)		At.		t width	Bed w	ridth	Bank widt	h	
A - Ups	d.	0 metres	2	6					
B			2	.4					
C				9			_	Si	e length:
0			2.	1				- 30	5
E			- 2-	2				- geoliteene	meti
G			-	-					
H					N.				
¥.									
J - Down	ist.								
Depths (cm)	<10	11-20	21-30	31-40	41-50	>50			
*ercent	0	115	25	35	15	10	1		
	702 1					1		1	1
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ercent	/	2	2	D	120	21	0110	10	0
ow	SM	DP	SP		G	SG	RU	RI	то
ercent	0	5	0	12	2	15	45	20	5
low notes:	1	1 11	hal	La tast	nvisible				
low notes:	1	Pro-	hal	1 tast			BA		IA.
low notes: ankside (%) B B Definitions:	UC underout 1		hal	Di fast Di ted in ripuri	R O an zone; br	unchelicarres	Contraction of almost	tiouch surface	NA na ca
low notes: ankside (%) B B Definitions: fish can't gel otal LB fish B bankface S banktop v 3 overhang,	VC underout l to cover due l cover :	UC 100 100 marks DR ve to tack of wat 	getation roo er MA veg Total RB fr	ted in ripuri rooted in sin ish cover: nplex	R an zone; bri cam bed/ba RB ban RB ban	inch/leaves nk incl. tre % kface veg ktop veg,	touch or almo e roots; excl. fi	st touch surface ally aquatic veg.	BA no co l
low notes: ankside (%) B B Definitions: fish cm't gel otal LB fish 3 trankface 3 banktop v 3 overhang, nkside note en, fanduse:	UC underout i (to cover due t cover: veg.: Bare / U boughs: es: AR / BL/ C	UC 100 100 minks DR voj to tack of wat % Juliform Str Miform Str %	getation roo er MA xeg Total RB fr mple Cor RB overt	ted in ripuri rooted in sin ish cover: nplex nplex nang, boug	R an zone; br cam bed/ba RB ban RB ban hs;	Incluleaves nk incl. be % kface veg ktop veg. 2.% C	Couch or almo c roots; excl. fi Bare / Unifi Bare / Unifi anopy cover P / RS / SC /	st touch surface ally aquatic veg. form Simple / orm Simple / SU / TH / TL	BA no co l Complex Complex
low notes: ankside (%) B Definitions: fish cm't gel otal LB fish 3 trankface 3 trankface	Veg.: Bare /U boughs: AR / BL / C vpe : GEN / I cm ⁻⁴ Temp?	LIC LC LC LC LC LC LC LC LC LC L	retail RB for rotal RB for rotal RB for rotal RB for rotal RB for RB overfor RB overfor rotal r RB for rotal	ted in ripari rooted in sin ish cover: nplex nplex uang, boug	RB ban RB ban RB ban hs:	Luch/leaves nk incl. tre % kface veg ktop veg. 2.% C V/RD/R DOTH/PI	E touch or almo c roots; excl. fi : Bare / Unifi : Bare / Unifi anopy cover P / RS / SC / ULSED EIR	st touch surface ally aquatic veg.	MA no co l Complex /WL : V /
low notes: ankside (%) B Definitions: fish cm't gel otal LB fish 3 trankface 3 trankface	VC underout 1 (to cover due 1 cover: veg.: Bare / U baughs: ces: AR / BL / C vpe : GEN / I cm ⁻⁴ Temp? C Pottu	P/FW/GA	re: IDere No of st	ted in ripuri rooted in sin ish cover: nplex nplex uang, boug	RB ban RB ban RB ban hs:	Luch/leaves nk incl. tre % kface veg ktop veg. 2.% C V/RD/R DOTH/PI	E touch or almo c roots; excl. fi : Bare / Unifi : Bare / Unifi anopy cover P / RS / SC / ULSED EIR	at touch surface ally aquatic veg.	MA no co l Complex / WL : V /

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		SaD+	instre:		over: Sa24		ne / 5a3+	Poor	/ 1 +++	Mode: Tr9		Goo Trl+		Ex Tr2	celli +	_	r3÷	1 7	[rå+
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33	-			1	-	95	1		1	1	151		-			14		-	
38	1	U.		1	1	25	-				155	1	-	-	-	215	-	-	-
36	1			-	-	96	-				137	1	-			217	1		
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39	11					119		1			179			1	1	239		1	1
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62						122		1	-		152					341		1	1
64	1			-		173					183			-		243			-1
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Othe	er spe	cies: A.	) SP	ILM.	6,0	(A	LK.												
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	notes:				******		*********	********						******	******	*******			

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LKE14

## GENERAL ELECTROFISHING HABITAT SURVEY

Easting 137565 metres Northing 930805 metres Site code COE14Date: 24.9.18

Widths (m)	1111	At	W	et width	Bed w	ridth [	Bank with	th		
A - Up	st.	0 metres	- 1				_			
B			- /	m						
C					_				Site	ength:
D									100	
F								-	*****	metr
G			_							
H					100					
1			_		_		_			
J - Daw	nst.									
Deptilis (cm) fercent	5	35	30	31-40 Zo	41-50	>50				
			35		~		4			
ubstrate	HO	51	SA	GR	PE	CO			BE	OB
ercent	0	0	0	25	35	30	5		5	0
ubstrate n	otes:		1 00							
ercent	SM	DP	SP	DC		SG	RU	RI		TO
a still	2		5	0	<	25	45	25		0
nkside (%)	(1000	UC	ream	7 DR		s	BA		MA	
mkside (%) B	···· (49-111)	UC 102 2		DR C		<u>к. С</u>			No.	
mkside (%) 3 8 efinitions: fish-can't ge	UC undereu	UC 102 2 103 t banks DR veg c to luck of wate	getation roo	DR	n zone; bra	inch/leaves	BA Ø O		MA Barface B/	1 no cov
inkside (%) B B <i>lefinitions:</i> fish (an') ge ttal LB fish bankface banktop v	UC undereu t la cover du cover:	UC 100 2 100 2	getation roo er MA veg otal RB fi mple / Con	ted in ripuria. rooted in stree ish cover: 7 nplex plex	n zone; bra ain bed/bas RB ban RB ban	incl/leaves ak incl. tree .% kface veg.	BA D touch or almored roots, excl. 1 : Bare (Unit	st touch y ully aquat	nple / Co	muslaw
inkside (%) B B <i>lefinitions:</i> fish (an') ge tal LB fish bankface banktop v overhang.	UC undercu t la cover du cover:	UC 100 2 100 2	getation roo er MA veg otal RB fi mple / Con	ted in ripuria. rooted in stree ish cover: 7	n zone; bra ain bed/bas RB ban RB ban	incl/leaves ak incl. tree .% kface veg.	BA D touch or almored roots, excl. 1 : Bare (Unit	st touch y ully aquat	nple / Co	muslaw
otal LB fish 3 bankface 3 banktop v 4 overhang.	UC undereu t la cover du cover:	UC 100 2 100 2	getation roo er MA veg otal RB fi mple / Con	ted in ripuria. rooted in stree ish cover: 7	n zone; bra ain bed/bas RB ban RB ban	incl/leaves ak incl. tree .% kface veg.	BA D touch or almored roots, excl. 1 : Bare (Unit	st touch y ully aquat	nple / Co	muslee
inkside (%) B B finitions: fish (an') ge tal LB fish bankface banktop v overhang, nkside note	UC undereu t la cover du cover:	UC 100 2 100 2	getation roo er MA veg fotal RB fi mple / Con nple / Com RB overh	ted in ripuria rooted in stre ish cover: 7 nplex plex uang, bough	n zone; bra sin bed/bas RB ban RB ban RB ban Is:Q	kface veg. ktop veg.: 	BA D touch or almored roots, excl. 1 : Bare (Unit Bare / Unit mopy cove)	set touch y ully aquat	ie veg.] mple / Co uple / Co	omplex mplex
inkside (%) B Pefinitions: fish (an') ge tal LB fish bankface banktop v overhang, nkside note n, landuse: tipment Ty td.II ( uS	UC undereu t lo cover:	UC / 0 2 / 0 3 It banks DR veg c to tack of wate 0 % 7 Uniform / Sin Different / Sin CP / FW / GA BACK Dolte 9 % 7	cotal RB fi mple / Com RB overh / IG / IN / c 2.5 -	ted in ripuria rooted in stre ish cover: 7 nplex plex tang, bough	n zone; bra am bed/bas RB basi RB basi RB basi RB basi RB basi OR / OW	kface veg. kface veg. // RD / RI	BA Couch or alma roots, escil 1 : Bare (Init Bare / Init mopy cover C/RS/SC/	set touch s ulty aquat	is veg.] mple / Co mple / Co % / TL / W bing?:	omplex mplex L y) א
nkside (%) B Pefinitions: fish can't ge otal LB fish banktop v banktop v banktop v overhang nkside nota n. landuse: uipment Ty ud.ll	UC undereu t lo cover: Z veg.: Bare eg.: Bare boughs: es: AR / BL / ype : GEN cm ⁻¹ Temp L · K C	UC 100 2 100 tt banks DR veg c to tack of wate 2	ctation roo or MA veg otal RB fi mple / Com nple / Com RB overh / IQ / IN / c. 25 c. 25 No of st	ted in ripuria rooted in stre ish cover: 7 nplex plex tang, bough	n zone; bra am bed/bas RB basi RB basi RB basi RB basi RB basi OR / OW	kface veg. kface veg. // RD / RI	BA Couch or alma roots, escil 1 : Bare (Init Bare / Init mopy cover C/RS/SC/	set touch s ulty aquat	is veg.] mple / Co mple / Co % / TL / W bing?:	omplex mplex /L y) א
mkside (%) B efinitions: fish can't ge tal LB fish bankface banktop v overhang nkside note n, landuse: nipment Ty ud.II ( µSo m leader: cking? Y	UC undereu t in cover:	UC / 03 2 / 03 It banks DR veg to tack of wate 2	getation roo or <i>MA</i> veg otal RB fi mple / Com nple / Com RB overh / IG / IN / c 2.5 - No of st	Dir Dir Dir dir ted in ripuria rooted in stre ish cover: 7 nplex plex tang, bough / (() / () Amps, () Stopaget: 1 aff; _ ()	n zone; bra am bed/bas RB basi RB basi RB basi RB basi RB basi Cor / OW OR / OW Cor / OW Cor / OW Cor / OW Cor / OW	kface veg. kface veg. kface veg. ktop veg.: % Ci // RD / Ri BO / NO takes &	BA Couch or almored roots, excl. 1 Bare / Init Bare / Init mopy cover P/RS/SC/ USED Eff Water: LO IDS?: Y	st touch y ully uqual SU / TH sective fis / ME / I	is veg.] mple / Co mple / Co % / TL / W bing?:	mplex mplex /L y)/ N
inkside (%) B Pefinitions: Tish can't ge otal LB fish I bankface I banktop v I overhang nkside nota n, landuse: nipment Ty nd.II (	UC undereu LIC undereu LID cover du cover: Z veg.: Bare Z boughs: es: AR / BL / vpe : GEN Cm ¹¹ Temp L · K El N Pol	UC / 00 2 /	getation roo er MA veg otal RB fi mple / Com nple / Com RB overh / IG / IN / e: 25 No of st S	DR DR DR DR ded in ripuria rooted in stree ish cover: 7 nplex plex plex uang. bough (CDNC) Amps: - Stopmet: 1 aff; 5	n zone; bra am bed/bas RB basi RB basi RB basi RB basi RB basi Cor / OW OR / OW Cor / OW Cor / OW Cor / OW Cor / OW	kface veg. kface veg. kface veg. ktop veg.: % Ci // RD / Ri BO / NO takes &	BA Couch or almored roots, excl. 1 Bare / Init Bare / Init mopy cover P/RS/SC/ USED Eff Water: LO IDS?: Y	st touch y ully uqual SU / TH sective fis / ME / I	is veg.] mple / Co mple / Co % / TL / W bing?:	omplex mplex L y) א

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Up

## GENERAL ELECTROFISHING HABITAT SURVEY

D/S Easting: 135450 metres Northing: 930605 metres Site cod CRE16 Date: 24-9-18

		At	the second second second second second second second second second second second second second second second se	n width	Bed wi	ath	Bank width		
A - Up	ist.	0 metres	1.	6					
B			4.	9					ite length:
C			1				_	14	A
DE		_	5	÷ 4 6				- 4	4 metres
F			2.	-	-			- 7	1
G									
H									
1									
J - Dow	nst.								
Depths (cm)	<10	11-20	21-30	31-40	41-50	>50			
Percent	0	0	10	10	40	40			
Substrate	HO	SI	SA	GR	PE	CO	80	BE	OB
Percent	0	0	0	20	20	20	20	20	1
Instream ve	n CO laorg. pa eg: O% intes:	Silted?:	YO	Substra	te Stable				Uncompacted
Flow	SM	DP	SP	n	G	SG	RU	RI	TO
Percent	0	10	0		0	0	40	õ	10
				7	-	~		<u> </u>	1.0
		***							
Bankside (%		UC	,	D	R		BA		MA
Bankside (% LB		100	3		R		BA		
Bankside (% LB RB <i>Definitions</i> : w fish can't g	) <i>: UC</i> undercut st to cover due	100 100 banks DR v to lack of w	egiciation ro	D O O O O O O O	R	inch/heaves	BA D D D D D D D D D D	st louch surfla	MA 200 re BA no cover
Bankside (% LB RB Definitions: or fish can't g Fotal LB fis LB bankface	) : UC undercut st to cover due th cover: 42 e veg.: Bare	banks DR v to lack of we 94	egetation ro ater MA veg Total RB	oted in ripar prooted in st fish cover; omplex	R last zone: bra ream bed/bar 30 RB ban	nch/heaves nk incl. tree %	BA ouch or almo roots; excl. fi : Bare (Unit	it touch surfia illy aquatic ve	MA See BA no cover g.]
Bankside (% LB RB Definitions: or fish can't g Fotal LB fis LB bankface LB bankface	) : UC undercut st to cover due th cover: ¹ 2 e veg.: Bare veg.: Bare	Joo Joo tomks DR v to lack of we to lack of we to lack of we to lack of we	egetation ro ater MA yeg Total RB Simple / Co	oted in ripar prooted in st fish cover: omplex mplex	R Iani zone; bra ream bed/bar 30 RB ban RB ban	ncti/teaves nk incl. tree .% kface veg. ktop veg.;	BA bouch or almo roots: excl. fi Bare Unit	at touch surfac illy aquatic ve om / Simple on / Simple	MA The BA no cover g 1 e / Complex / Complex
Bankside (% LB RB Definitions: or fish can't g Fotal LB fis LB bankface LB bankface LB banktop LB overhang	b) : UC undercut st to cover due th cover: 12 e veg.: Bare veg.: Bare g, boughs:	Loo Joo banks DR v to lack of we 94 Uniform S	cgetation ro ater MA veg Total RB Simple / Co imple / Co RB over	oted in ripar prooted in st fish cover: omplex mplex	R Iani zone; bra ream bed/bar 30 RB ban RB ban	ncti/teaves nk incl. tree .% kface veg. ktop veg.;	BA bouch or almo roots: excl. fi Bare Unit	at touch surfac illy aquatic ve om / Simple on / Simple	MA The BA no cover g 1 e / Complex / Complex
Bankside (% LB RB Definitions: or fish can't g Fotal LB fis .B bankface .B bankface .B banktop .B overhang	b) : UC undercut st to cover due th cover: 12 e veg.: Bare veg.: Bare g, boughs:	Loo Joo banks DR v to lack of we 94 Uniform S	cgetation ro ater MA veg Total RB Simple / Co imple / Co RB over	oted in ripar prooted in st fish cover: omplex mplex	R Iani zone; bra ream bed/bar 30 RB ban RB ban	ncti/teaves nk incl. tree .% kface veg. ktop veg.;	BA bouch or almo roots: excl. fi Bare Unit	at touch surfac illy aquatic ve om / Simple on / Simple	MA The BA no cover g 1 e / Complex / Complex
r fish can't g Fotal LB fis .B bankface .B banktop .B overhang	) : UC undercut st to cover due th cover: ¹ 2 e veg.: Bare veg.: Bare	Loo Joo banks DR v to lack of we 94 Uniform S	cgetation ro ater MA veg Total RB Simple / Co imple / Co RB over	oted in ripar poted in ripar prooted in st fish cover: omplex mplex	R Iani zone; bra ream bed/bar 30 RB ban RB ban	ncti/teaves nk incl. tree .% kface veg. ktop veg.;	BA bouch or almo roots: excl. fi Bare Unit	at touch surfac illy aquatic ve om / Simple on / Simple	MA The BA no cover g 1 e / Complex / Complex
Bankside (% LB RB Definitions: or fish can't g Fotal LB fis LB bankface .B banktop .B overhang Sankside ao	b) : UC undercut st to cover due th cover: 12 e veg.: Bare veg.: Bare g, boughs:	Uniformy	egetation ro ater MA veg Total RB Simple / Co imple / Co RB over	oted in ripar prooted in st fish cover; mplex mplex thang, boug	R RB ban RB ban RB ban gbs:	nch/heaves nk incl. tree .% kface veg, ktop veg,: % Ci	BA ouch or almo roots: excl. fi Bare Unit Bare Unite	at touch surfin illy aquatic ve grm / Simple 3	MA See BA no cover g.] c / Complex / Complex
Bankside (% LB RB Definitions: or fish can't g Fotal LB fis .B bankface .B bankface .B bankface .B bankface .B bankface .B bankface .B bankface .B bankface .B bankface .Cont LB fis .Cont	e veg.: Bare g, boughs: des: H14 e: AR/BL/O Fype : GEN/ Sem ⁻¹ Temp C. KE	Uniform S Iniform	cuctation ro ater MA veg Total RB Simple / Co imple / Co RB over SA / IG / IN otts 250. ime/0-0	oted in riper pooted in riper pooted in st fish cover: smplex mplex thang, hou t/ MH / NC AmpsO Stopnet:	R ani zone: bra ream bed/han 3 B ban RB ban ghs: C/OR /OW	kface veg. ktop veg.: % V/RD/RI	BA Douch or almo roots; excl. fi Bare Unit Bare Unit anopy cover	st louch surfa illy aquatic ve im / Simple i% SU/TH/T setive fishin / ME(HI)	MA See BA no cover g.] t / Complex / Complex L / WL
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See New GPS 19 1375 GENERAL TROFISHING HABITAT SURVEY 2000 0244 Date: 27-9-18 metres Northing: metres Site code:. Easting Bed width Bank width Widths (m) At Wet width A - Upst. 0 metres B Site length: C D 50 metres E D G H 1 J - Downst Depths (cm) 21-30 31-40 41-50 >40 <10 11-20 C 7 45 20 10 Percent Substrate SI SÅ GR PE CO RO BE: OB HO 30 30 10 0 10 10 10 G Percent [Definitions: HO v. fine org. matter SV inorg. indiv. part. invisible SA inorg. part. =2mm GR inorg. part 2-16mm PE inorg. part 18-64mm CO inorg. part 64-256mm BO inorg. part >256mm BE cont. rock surface OB wood barrels etc; cannot move] Instream veg: Silted2: Y/N Substrate: Stable / Unstable & Compacted / Partly / Uncompacted DS 1001 Sect Substrate notes: pebbb/cabbb/book US section Flow SM DP SP DG SG RU RI TO 0 0 20 Percent 10 45 CO 5 0 [Definitions: SM <10cm; still/eddy; smooth ap.; silent DP >=30cm; slow/eddy; smooth ap.; silent SP <30cm; slow/eddy; smooth ap.: silent DG >=30cm; mod/fast; amooth ap.: silent SG <30cm; mod/fast; smooth ap.; silent RU fast; unbroken waves; silent RI fast; broken waves; audible TO white water; noisy; substrate invisible] Flow notes:... Bankside (%) Ðť DR RA MA LB t-10. 0 1 RB 00 [Definitions: UC underent banks DR vegetation rooted in riparian zone, branch/leaves banch or almost touch surface BA no cover or fish can't get to cover due to lack of water MA veg rooted in stream bed/bank incl. tree roots; excl. fully aquatic veg.] Total LB fish cover: 70 % Total RB fish cover: 70 LB hankface veg .: Bare / Uniform Simple Complex RB bankface veg.; Bare / Uniform Simple / Complex. LB banktop veg.: Bare / Uniform / Simple / Complex RB banktop veg.: Bare / Uniform / Simple? Complex LB overhang, boughs: 75 % RB overhaug, boughs: 75 % Canopy cover: . Bankside notes: Wesgrawn - ver observo Gen. handuse: AR / BL / CP / FW / GA / IG / INCMH / IC / OR / OW / RD / RP / RS / SC / SU / TH / TL / WL Equipment Type : GEN BACE Volts 250. Amps: O. (SMOOTH) PULSED Effective fishing (Y) / N Cond 151 uSem Temp II. 1 °C Time: 4 2 Stopnet: UP / DO(BO) NO Water: LO / ME (HD& CLB / COL Team leader: L - KELLY No of staff: 3 Photo taken & IDS?: Y . /N Stocking? Y (N) Pollution? Y (N) SP Notes:... * Fish to beginning at had Stat - 137510 930272 13751

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Midth (m)       Ai       Wet width       Bed width       Bank width         B       0       1.7       3.3         B       0       1.7       3.4       3.3         B       0       1.7       3.4       3.3         B       1.7       1.4       1.4       1.4         B       1.4       1.4       1.4       1.4 <t< th=""><th>A - Upst.       0 metres       1       1       0         B       C       1       1       1       1       1         D       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1</th><th></th><th>13926</th><th>_</th><th></th><th></th><th>1 1000</th><th></th><th></th><th></th><th></th></t<>	A - Upst.       0 metres       1       1       0         B       C       1       1       1       1       1         D       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1		13926	_			1 1000				
C       0       3.4       3.3         E       3.4       3.3         B       C       1.4       1.4         J - Downst.       1.4       1.4       1.4         J - Downst.       1.4       1.4       1.4       1.4         J - Downst.       1.4       1.4       1.4       1.4       1.5         Substrate       HO       S1       SA       GR       PE       CO       BO       BE         Percent       5       S       SA       GR       PE       CO       BO       BE         Iberititions: HO v. fine org. matter SI linerg. Indiv. part. invisitile SA inorg. part -256mm BC cont. nock surface OB wood barrels etc: cannot 1       Instream veg:       .5       Silted?: V/N       Substrate: Stable / Unstable & Compacted / Partly / Un         Substrate notes:       Substrate invisible       Stable / Unstable & Compacted / Partly / Un         Substrate notes:       Silted?: V/N       Substrate invisible       Stomer, slow/edgy, imooth ap.; sileen SP <30 cm, slow/edgy, imooth ap.; sileen SP <30 c	C       D       S       S         D       S       S       S         E       S       S       S         B       I       I       I       I         J - Downst.       S       S       S       S         Depths (cm)       <10	Widths (m A - L		0 metri	es.	Wei width	Bed w	adth	Bank width	ti	
0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0	D       E       3.4         E       3.4       4       4         G       1       1       1         J-Downst.       1       1       2       1       2       1       1       2       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1					3.2					
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Depths (cm)       <10       11-20       21-30       31-40       41-50       >50         Substrate       HO       S1       SA       GR       PE       CO       BO       BE         Definitions:       HO       S1       SA       GR       PE       CO       BO       BE         (Definitions:       HO       S1       SA       GR       PE       CO       BO       BE         (Definitions:       HO       S1       SA       GR       PE       CO       BO       BE         (Definitions:       HO       S1       SA       GR       PE       CO       BO       BE         (Definitions:       SM       DP       SP       DG       SG       RU       RI         Substrate       SM       DP       SP       DG       SG       RU       RI         Definitions:       SM       DP       SP       DG       SG       RU       RI         Instream       Ver       SM       DP       SP       DG       SG       RU       RI         Substrate       SM       DP       SP       DG       SG       RU       RI       RI <t< td=""><td>Depths (cm)       &lt;10       11-20       21-30       31-40       41-50       &gt;50         Percent       Image: Color of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of</td><td>н</td><td>8</td><td>_</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	Depths (cm)       <10       11-20       21-30       31-40       41-50       >50         Percent       Image: Color of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of	н	8	_							
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RI fast, broken works, and the TO white water, newsy substrate invisible]         Flow notes:         Bankside (%)         UC       DR         Bankside (%)         UC       DR         Bankside (%)         UC       DR         Bankside (%)       UC         Definitions:       UC undercail banks DR vegetation rooted in riparian zone; branch/feaves touch of almost touch surface B or fish can't get to cover due to tack of water MA veg cooted in stream bed/feask incl. tree roots; excl. fully aquatic veg.         Total LB fish cover:       %         Total LB fish cover:       %         Total LB fish cover:       %         Total RB fish cover:       %         Simple / Complex       RB bankface veg.: Bare / Initern / Simple / Complex         LB overhang, boughs:       %         RB overhang, boughs:       %         Can opy cover       %         Bankside notes;       %         Gen, landuse: AR / BL / CP / FW / GA / IG / IN       MH NC / OR / OW / RD / RP / RS / SC / SU / TH / TL / W	W fast, broken works, andige TO while water; notes, cubstrate invisible]         Now notes:       Yest Matrix TO while water; notes, cubstrate invisible]         Now notes:       Yest Matrix TO         ankside (%)       Yest Matrix TO         B       Yest Matrix TO         Definitions:       UC undercut banks DR vegetation rooted in riparian zone; branch/leaves touch or almost touch surface fish can't get to cover due to tack of water MA veg rooted in stream bed/fishk incl. tree roots; excl. fully aquatic veg.         Stankface veg::       Bare (Inition)         Simple / Complex       RB bankface veg::         B bankface veg::       Bare (Inition)         Simple / Complex       RB bankface veg::         B bankface veg::       Bare (Inition)         Simple / Complex       RB bankface veg::         B bankface veg::       Bare (Inition)         Simple / Complex       RB bankface veg::         B overhang, boughs:       %         RB overhang, boughs:       %         RB overhang, boughs:       %         RB overhang, boughs:       %         Canopy cover       %         nkside notes:       %         nkside notes:       %         Note       (OR / OW / RD / RP / RS / SC / SU / TH / TL / TL / TL / TL / TL / TL / TL	Flow		DP		SP I	G	SG	RH	ÐI	_
LB       SO       SO       MA       MA         RB       100       SO       SO       MA       MA         IDefinitions: UC underent banks DR vegetation rooted in riparian zone, branch/leaves touch or almost touch surface B or fish can't get to cover due to lack of water MA veg rooted in stream bed/bank incl. tree roots, excl. fully aquatic veg.       Total LB fish cover:       %       Total RB fish cover:       %         LB bankface veg.: Bare (Initian)       Simple / Complex       RB bankface veg.: Bare (Initian)       Simple / Complex       RB bankface veg.: Bare (Initian)       Simple / Complex         LB banktop veg.: Bare / Initernt / Simple / Complex       RB bankface veg.: Bare (Initernt / Simple / Complex       RB banktop veg.: Bare (Initernt / Simple / Complex       RB banktop veg.: Bare (Initernt / Simple / Complex       RB banktop veg.: Bare (Initernt / Simple / Complex         LB overhang, boughs:       %       RB overhang, boughs:       %       Canopy cover       %         Bankside notes:	B       JOO       SO       SO       Image: No       Image: No <thimage: no<="" th="">       Image: No</thimage:>	Percent [Definitions ap.: silent De RI fast; brok	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	m; still/eddy; ned/fast; smo	smooth ap oth ap : sile ite water; n	2 13 ent SG <30cm; typisy pubsingte	30cm; slow/e	15	35 up.; silent <i>SI</i> u <i>RU</i> fant; u	30 P <10cm; slow inbroken waye	51 51
[Definitions: UC undercut banks DR vegetation rooted in riparian zone; branch/toaves touch or almost touch surface B or fish can't get to cover due to lack of water MA veg rooted in stream bed/bank incl. tree roots; excl. fully aquatic veg.]         Total LB fish cover:       95         Total LB fish cover:       95         L8 bankface veg.:       Bare (Initian)         Simple / Complex       RB bankface veg.:         LB banktop veg.:       Bare / Initian)         Simple / Complex       RB banktop veg.:         L8 overhang, boughs:       %         RB overhang, boughs:       %         RB overhang, boughs:       %         RB notes:       %         Gen, landuse:       AR / BL / CP / FW / GA / IG / IN MED NC / OR / OW / RD / RP / RS / SC / SU / TH / TL / N         Cquipment Type :       GEN BACK / Votes 24 0	Definitions: UC underent banks DR vegetation rooted in riparian zone, branch/leaves touch or almost touch surface fish can't get to cover due to tack of water MA veg rooted in stream bed/bank incl. tree roots, excl. fully aquatic veg. otat LB fish cover:% Total RB fish cover:% B bankface veg.: Bare / Iniferm Simple / Complex RB bankface veg.: Bare / Iniferm Simple / B banktop veg.: Bare / Iniferm / Simple / Complex RB bankface veg.: Bare / Iniferm Simple / Complex RB banktop veg.: Bare / Iniferm Simple / Complex RB banktop veg.: Bare / Iniferm Simple / Complex RB banktop veg.: Bare / Iniferm Simple / Complex RB banktop veg.: Bare / Iniferm Simple / Complex RB banktop veg.: Bare / Iniferm Simple / Complex RB banktop veg.: Bare / Iniferm Simple / Complex RB banktop veg.: Bare / Iniferm Simple / Complex RB banktop veg.: Bare / Iniferm Simple / Complex RB banktop veg.: Bare / Iniferm Simple / Complex RB banktop veg.: Bare / Iniferm Simple / Complex RB banktop veg.: Bare / Iniferm Simple / Complex RB banktop veg.: Bare / Iniferm Simple / Complex RB banktop veg.: Bare / Iniferm Simple / Complex RB banktop veg.: Bare / Iniferm Simple / Complex RB banktop veg.: Bare / Iniferm Simple / Complex RB banktop veg.: Bare / Iniferm Simple / Complex RB banktop veg.: Bare / Iniferm Simple / Complex RB banktop veg.: Sare / Iniferm Simple / Complex RB banktop veg.: Sare / Iniferm Simple / Complex RB banktop veg.: Sare / Iniferm Simple / Complex RB banktop veg.: Sare / Iniferm Simple / Complex RB banktop veg.: Sare / Iniferm Simple / Complex RB banktop veg.: Sare / Iniferm Simple / Complex RB banktop veg.: Sare / Iniferm Simple / Complex RB banktop veg.: Sare / Iniferm Simple / Complex RB banktop veg.: Sare / Iniferm Simple / Complex RB banktop veg.: Sare / Iniferm Simple / Complex RB banktop veg.: Sare / Iniferm Simple / Complex RB banktop veg.: Sare / Iniferm Simple / Complex RB banktop veg.: Sare / Iniferm Simple / Complex RB banktop veg.: Sare / Iniferm Simple / Complex RB banktop veg.: Sare / Iniferm Simple / Com	Percent [Definition: ap.; silent De RI fast; brok Flow notes: Bankside (%	5 52 SM <10k G>=30cm; 4 cn wy74s; m	m: still/eddy; need/fast; smo afile: 70 wh	smooth ap ath ap : sile ite water; r ha	$\begin{array}{c c} & I \\ \hline \\ p, i \ silent \ DP >= \\ ent \ SG < 30 em; \\ f \\ sy \ substrate \\ I \ f \\ s \\ f \\ s \\ s \\ s \\ s \\ s \\ s \\ s \\$	30cm; slow/e mod/fist; sm invisible]	siddy; limooth i nooth ip.; sifter	35 up.; silent SI ut RU fast; u	30 P <mem; slow<br="">inbroken wave</mem;>	\$1 S
LB banktop veg.: Bare / milerin / Simple / Complex. RB banktop veg.: Bare / milerin / Simple / Co LB overhang, boughs:	B banktop veg.: Bare / milerin / Simple / Complex. RB banktop veg.: Bare / milerin / Simple / G B overhang, boughs:	Percent [Definition: op.; silent DO RI fast; brok Flow notes: Bankside (% LB	5 52 SM <10k G>=30cm; 4 cn wy74s; m	m: still/eddy; need/fast; smo afile: 70 wh	smooth ap ath ap : sile ite water; r ha	2 $1p_{1} silent DP >=ent SG < 30 cm;p_{1} p_{2} p_{3}	5 30cm; slow/e mod/fast; sm invisible] R	sidy; imooth booth up.; siler	35 up.; silent SI n RU fast; u	30 P <30cm; slow introken wave	\$  5 1A
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GLEOZ

#### GENERAL ELECTROFISHING HABITAT SURVEY

Easting 38061 metres Northing: 933826 metres Site code GLEO2 Date: 25.9.18

B       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C <thc< th=""> <thc< th=""> <thc< th=""></thc<></thc<></thc<>	B       C       Site length:         B       1/4       1/4         B       1/2       1/5       5/1         Deprint (cm)       0/2/2       1/5       2/5         abstrate       HO       5/1       5/2       1/3       2/5         abstrate       HO       5/1       5/2       1/3       2/5         abstrate       HO       5/1       5/2       1/3       2/5         Definitions: HO v. fine org. matter SI inorg. ind/v. part 2/5 form BO inorg. part 2/5 form BO inorg. part 2/5 form BO inorg. part 2/5 form BO inorg. part 2/5 form BO inorg. part 2/5 form BO inorg. part 2/5 form BO inorg. part 2/5 form BO inorg. part 2/5 form BO inorg. part 2/5 form BO inorg. part 2/5 form BO inorg. part 2/5 form BO inorg. part 2/5 form BO inorg. part 2/5 form BO inorg. part 2/5 form BO inorg. part 2/5 form BO inorg. part 2/5 form BO inorg. part 2/5 form BO inorg. part 2/5 form BO inorg. part 2/5 form BO inorg. part 2/5 form BO inorg. part 2/5 form BO inorg. part 2/5 form BO inorg. part 2/5 form BO inorg. part 2/5 form BO inorg. part 2/5 form BO inorg. part 2/5 form BO inorg. part 2/5 form BO inorg. part 2	Widths (m)		At	and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second se	width	Bed wi	ats	Bank widt		
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pths (cm)       <10       11-20       21.50       31.40       41.50       >50         orcent       Q       Q       X       SA       GR       PE       CO       BO       BE       OB         ostrate       HQ       LO       BO       BE       OB         orent       Q       LO       BO       BE       OB       BE       OB       OB       DE       DE       DE       CO       DD       DE       DE       DE       DE       CO       DE       DE <thde< th="">       DE&lt;</thde<>	epiths (cm) $< 10$ $11-20$ $21.50$ $31-40$ $41.50$ $>50$ batrate $10$ $S1$ $SA$ $GR$ $PE$ $CO$ $80$ $BE$ $OB$ batrate $10$ $S1$ $SA$ $GR$ $PE$ $CO$ $80$ $BE$ $OB$ perfinitions: $H0$ $S1$ $SA$ $GR$ $PE$ $CO$ $80$ $BE$ $OB$ perfinitions: $H0$ $S1$ $SA$ $GR$ $PE$ $CO$ $80$ $BE$ $OB$ perfinitions: $H0$ $S1$ $SA$ $GR$ $PE$ $DC$ $S0$ $BC$ $DR$ $P$ $P$ $DC$ $SC$ $R1$ $TO$ ostream $OD$ $SP$ $DG$ $SC$ $R1$ $TO$ $O$ <td>1</td> <td></td> <td></td> <td>_</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	1			_						
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LAX O( GENERAL ELECTROFISHING HABITAT SURVEY Easting 139720 metres Northing 935235 metres Site code (AXO) Date: 25 9.18 Widths (m) ÅI Wet width Bed with Bank width A - Upst. 0 metres B Om C Site length: D Ē metres F G Ħ 1 3 - Downst Depths (cm) <10 11-20 21-30 31-48 41-50 >50 F 25 0 30 â 0 1 Substrate HO \$1 SA GR PF CO 80 BE OB 0  $\sim$ 0 20 25 40 15 0 [Definitions: HO v. fine org. matter SI inorg. indiv. part, invisible SA inorg. part. ==2mm GR inorg. part 2-16mm PE inorg. part 16-64mm CO inorg, part 64-256mm BO inorg, part >256mm BE cont, rock surface OB wood harrels etc; cannot move] Instream yeg Silted?: Y (N) Substrate Stable Unstable & Compacted Parity Uncompacted Substrate notes: 10ed SM DP SP ÐG SG RU 121 TO 6 0 30 35 0 35 [Definitions: SM <10cm; still/eddy; smooth up.; silent DP >=30cm; slow/eddy; smooth up.; silent SP <30cm; slow/eddy; smooth up.; silent DG >=30cm; mod/fast; amooth ap.; silent SG <30cm; mod/fast; amooth ap.; silent RU fast; unbroken waves; silent RI fast, broken veryes, multible TP white water, noisy, substrate invisible] Flow notes: Bankaide (%) UC DR RA MA 60 0 10 C 60 0 10 13 |Definitions: UC underest banky DR vegetation rooted in riparian zone; branch/leaves touch or almost touch surface BA no cover or fish can't get to cover due to lack of water MA veg rooted in stream bed/hank incl. tree roots, excl. fully aquatic veg.] Total LB fish cover: 30 % Total RB fish cover: -50 L8 bankface veg.: Bare Uniform Simple / Complex RB bankface veg.: Bare (Uniform)/ Simple / Complex LB banktop veg.: Bar Uniform Simple / Complex RB banktop veg.: Bare Uniform / Simple / Complex LB overhang, boughs: O RB overhang, boughs: _____% Canopy cover: _____% . 1% Bankside notes: Gen. landuse: AR / BL / CP / FW / GA / IG / IN / MH/ NC / OR / OW / RD / RP / RS / SC / SU / TH / TL / WL Equipment Type : GEN BACD Volts 295 Amps 0.4 MOOT PULSED Effective fishing?: 0/ N

Percent

Percent

Flow

LB

RB

Percent

Conde TuSem" Temp: TT "C Time: 16: 20 Stopnet: UP / DO (BO/ NO Water: LO / ME @ & COL/COL Team leader: L. KELLY No of staff: 3 Photo taken & IDS?: Y fast flow - hun / R. ffle Stocking? Y SP Notes: Very Fish from NB 39716 35250 Spawning habitat 20m J/S of gabon baskets

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LAXOZ

# GENERAL ELECTROFISHING HABITAT SURVEY

Easting: 386/5 metres Northing: 935975 metres Site code LAXO2 Date: 27.9.18

Widths (m)		At	Wet width	Bed width	Bank width		
A - Uj	221-	0 metres	3.1				
C			29				
<u>p</u>			5.6			Si	te length;
E			50			- 21	1
F			2.0				T. metre
G						-	
R						-	
1							
J - Dew	nst,						
Depths (cm)	<10	11-20	21-30 31-40	41-50 >50	1		
Percent	0	0	10 20	55 15	1		
Substrate	HO	SI	SA GR	PE C	BO	BE	OB
Percent	0	0	inorg. indiv. part. invi	15 4	0 20	10	0
low ercent	SM	IN MOLY	SP De	17.62	RU	RI	TO
	0		O 2.5 th ap.; silent $DP >=3$		50	10	20
low notes:	Very t	ust fla	ter; noisy substrate in D - limit	fsuse	y condi	tians	
low notes: ankside (%) B	Very t	ust 7/25	) - limit	ofsurse	1 condi	M	
low notes: mkside (%) 3 3 <i>efinitions: i</i> fish cm [*] 1 get	UC undercul	4st - 1/2 100 100 tanks DR veget	D - limit	of SJIJe	BA CO	M	2
ankside (%) B B Definitions: ( Fish can't get Hal LB fish S bankface y I bankface y	VE 19 1 UC undercut to cover due cover: 3 veg.: Bar eg.: Bar	UC UC 190 TO tanks DR vegen to lack of water / Simp Tuitorn Simp	D - lumit DR DR DR DR DR DR DR DR DR DR DR DR DR	cf SJIJe	BA touch or almost to c roots: excl. fully a	uch surface I aquatic veg.]	24 no cover
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Definitions: of fish can't get	UC underent In cover due	to lack of water	MA veg r	ted in riparian a rooted in stream	tone; bra n bed/bae	nch/leaves to k incl. tree n	uch or almost nots: excl. full	touch surface y aquatic veg.	ВА по ]
[Definitions: or fish can't get Total LB fish LB bankface LB bankface	cover: 3	Uniform / Stra	Com	sh cover:	RB bank	face veg.;	oots: excl. fuil Bare / (Jnifor	y aquatic veg. m Simple /	] Compl
(Definitions: or fish can't get Total LB fish LB bankface LB bankface	cover: 3	Uniform / Stra	Com	sh cover:	RB bank	face veg.;	oots: excl. fuil Bare / (Jnifor	y aquatic veg. m Simple /	] Comp
[Definitions: or fish can't get Totat LB fish LB bankface LB banktop v LB overhang.	cover: 3 veg.: Bare / eg.: Bare / 1 boughs: C	Uniform / Stra	Com	sh cover:	RB bank	face veg.;	oots: excl. fuil Bare / (Jnifor	y aquatic veg. m Simple /	] Comp
[Definitions: or fish can't get Total LB fish LB bankface LB bankface	cover: 3 veg.: Bare / eg.: Bare / 1 boughs: C	Uniform	Com	sh cover:	RB bank	face veg.;	oots: excl. fuil Bare / (Jnifor	y aquatic veg. m Simple /	] Comp

		n: nission:											D	atex	/6	9	(	
		Inst	ream co	ver:	No	ne /	Poor	C		~	Good		-		_		Te	
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OF OL GENERAL ELECTROFISHING HABITAT SURVEY 22Date: 26-9-1 Easting: 139775 metres Northing: 29700 metres Site color OPOZ Widths (m) At Wet width Bed width Bank width 2-6. A + Upst. 0 metres B 30 Ċ Site length: 0 D て E metres -G Ħ 1 J - Downst. Depths (cm) < 1011-20 21-30 31 - 4041-50 >50 Percent 25 10 35 15 5 Substrate HO SI SA GR PE CÓ BÓ BE OB 5 5 15 Percent 5 15 10 15 25 [Definitions: HO v. fine org. matter SI morg. indiv. part, invisible SA morg. part, =2mm GR morg. part 2-16mm PE morg. part 16-64mm CO inorg, part 64-256mm BO inorg, part >256mm BE cont, tock surface OB wood harrels etc; cannot move] Instream veg:/O % Silted?: Y (N) Substrate/ Stable / Unstable & Compacted Partly Uncompacted Substrate notes: 1000 Daci Flow SM DF SP DG SG RU RI TO Percent 5 25 O 0 40 20 10 [Definitions: SM =10cm; still/eddy; smooth ap.; silent DP >=30cm; slow/eddy; smooth ap.; silent SP <30cm; slow/eddy; smooth up.; silent DG >=30cm, mod/fast; smooth ap.; silent SG <30cm; mod/fast; smooth ap.; silent RU fast; unbroken waves; silent RI fast; broken waves; aufible TO white water; noisy; unhstrate invisible Flow notes:... MIG Bankaide (%) 110 DR BA MA 1.8 100 0 0 00 RB 100 0 100 (Definitions: UC undercut banks DR vegetation rooted in riparian zone, branch/leaves touch or almost touch surface IIA no cover or fish can't get to cover due to lack of water MA veg rooted in stream bed/bank incl. tree roots; excl. fully aquatic veg.] Total LB fish cover: 7.0 % Total RB fish cover: ZO LB bankface veg.: Bare / Uniform Simple Complex RB bankface veg.: Bare / Uniform / Simple / Complex LB banktop veg.: Bare / Uniform /Simple? Complex RB banktop veg.: Bare / Uniform Csimple Complex LB overhang, boughs: 0% RB overhang, boughs: 0% Canopy cover: 0% Bankside notes: Gen. landuse: AR / BL / CP / FW / GA / IG / IN MD / NC / OR / OW / RD / RP / RS / SC / SU / TH / TL / WL Equipment Type ; GEN/BACK Volte 255 Amps 0.6 (SMOOT) PULSED Effective fishing? V N Cond 201, #Sem" TemptL. L. C Time: 11 3 Stoppet: UP/DO/BO/NO Water: LO/ME/HI & CLR/COL Team leader: L KELT No of staff: S Photo taken & IDS?: Y . IN Stocking? Y Pollution? Y N SP Notes:.... FINISH POINT - NB39701 - 29197

		Instre	am co	ver:	Not	ie /	Poor	./@		_	Goo	-					Tel	
-	Sa0+	Sa	1+	5a2-		Sa3+	Sn4	++	Tr0	+	Trl+	-	Tr2+	-	Tr	3+	1.04	
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DIS GEN	ERAL ELECTROFISHING HABITAT SURVEY
Easting:/38325 metres	Northing: 929 / 50 metres Site code: TCO3 Date 26-9-18

(A = 1	i) Ipst.	At 0 metres	1	Vet width	Bed	width	Bank wie	th	
E		y merres		5.4		_			
0		_		2.7					
D	)			2				-	Site length:
E			1	6	-			3	5
F					1	_			
G									
H									
J - Dov	vnet								
a - 100	0.031+								
Depths (cm	1 1 1			_					
Percent	0		21-30	31-40	41-50	>50			
	10	10	130	40	10	10			
Substrate	HO	SI	SA	CD	1				
Percent	15	5	0	GR 30	P£.	CO		BE	OB
In a well				30	30	10	2 5	50rg. part 2-16r	0
[Definitions, ap.; silent DG RI fast; broke: Flow notes:	mayes, my	ible 10 white	nooth ap., si ap.: silent S water; poisy N. F. S	iem DP >=3 SG <30cm; n	Uem; slow/e	ddy: smoo ooth ap.; si	th ap.: silent S lent RU fast; t	30 P <30em; slow uibroken waves	ro O /eddy: smoo ; silent
	1	0 I.	Friedlinen angenen	<b>.</b>					
Bankside (%) LB		, uc		DR O		e	BA		
Bankside (%) LB RB Definitions: r fish can't get	UC undercut to cover due	UC /00 /00	etution tool	DR O C	>		BA	0	A
Bankside (%) LB RB Definitions: r fish can't get 'otal LB fish B bankface y B bankface y	veg.: Bare / eg.: Bare / boughs:	UC 100 100 banks DR veg to lack of wate 100 to lack of wate 100 to lack of wate 100 to lack of wate 100 100 100 100 100 100 100 10	etation total x MA veg t otal RB fig	DR O ed in riparian ooted in stres sh cover: 2	A zone; bran am bed/bani 200	ch/leaves to incl. tree	BA Ouch or almost roots, excl. full Bare / Unifor	Iouch surface I y aquatic veg.]	A

	3	Instre	am co	ver: N	one /	Poor	10	Moderate	Good /	Exce	llent	
Present	Sa0+	Si	1+	Sa2+	5834	Sa	4++	Tr0+	Tri+	Tr2+	Tr3+	Te
[		-		Tro	CPT		_	alia-				
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49 111		_		108	1			168			228	
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51			1	111		-		171			231	
53				1 113	1			173	1		213	
54 56 56				114		-		174			134	
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39				110	1	1	-	178			238	
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Other spe	ecies: E	EL	111	12					******			
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Site notes	Ves	inct	YOGA	n - 1	20-0	1 0.0	111	-/a4	f f		······································	
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