### Slievemweel Commonage

### 2020 Ecological Survey



**Final Report** 

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### Slievemweel Commonage

### 2020 Ecological Survey

### 1. Introduction

A baseline habitat condition and ecological survey and habitat management plan was prepared for the **Slievemweel** Commonage in 2020<sup>1</sup> and the measures within same underwent screening for Appropriate Assessment<sup>2</sup>.

A Commonage Management group was established for the commonage and the implementation of the management prescriptions in the plan began in 2020.

The management prescriptions in the SUAS plan for the commonage set out to address the impacts highlighted in that report so progress is made towards attaining **Favourable status** for the Annex I habitats present on the site – principally **4010 Northern Atlantic Wet Heaths with** *Erica tetralix* and **4030 Dry Heath** as well as protection of the existing acid grassland resource.

The major impacts on this hill arise from a legacy of years of uncontrolled burning which has damaged the heath habitats on the hill. As a result, the majority of the habitat areas on the hill are currently assessed as being in **Unfavourable Status**.

The extent of habitats present within the commonage and their affinities to either Fossitt (Level 3) or Annex I habitats on the Slievemweel Commonage were mapped as presented on Figures 1 and 2 (See Appendix 1) and their conservation status was assessed and mapped as shown on Figure 3 (See Appendix 1). A series of management prescriptions were drawn up for the commonage as detailed in Table 1 below and mapped on Figure 4 (See Appendix 1).

### 2. SUAS Vegetation Management Measures

The proposed management measures for the Slievemweel commonage in 2020 under SUAS were as follows:

### Year 1 (2020)

- 1. Cut back self-seeded Sitka spruce trees in area 2
- 2. Use a bracken bruiser in area 5 and area 6, where it is accessible by a quad. Note-Care must be taken when using quad on rough or steep ground and obstacles should be marked in advance or by somebody walking in front of the quad. To be done in early-June and again in mid-August.
- 3. Cut gorse bushes in area14 with a tractor mounted mulcher. Large stones/rocks should be identified for contractor to prevent damage to machine. Cut gorse in area 3 if accessible by tractor, but do not cut the broadleaf trees growing there. Other areas of gorse that are easily accessible by tractor in areas on the south side of the commonage may also be mulched.
- 4. Individual or small clumps of gorse in area 5 may be control burned. This shall only be done during the legal burning period and shall be properly controlled as directed by the project manager. The project manager shall provide training, required equipment and personal protective equipment (PPE), and relevant notifications and permit applications shall be made in advance.

<sup>&</sup>lt;sup>1</sup> Wilson, F. (2020). Ecological Baseline Survey prepared for Slievemweel Commonage as part of the Commonage Management Plan for SUAS. 15th July 2020. Unpublished report for SUAS EIP.

<sup>&</sup>lt;sup>2</sup> Wilson, F. (2020). Report for Screening for Appropriate Assessment for a Commonage Management Plan at Slievemweel, Askanagap, Co. Wicklow in accordance with the requirements of Article 6(3) of the EU Habitats Directive. 7<sup>th</sup> September 2020. Unpublished report for SUAS EIP.

### Year 2 (2021)

- 1. Use a bracken bruiser in area 5 and area 6, where it is accessible by a quad. Note-Care must be taken when using quad on rough or steep ground and obstacles should be marked in advance or by somebody walking in front of the quad. To be done in early-June and again in mid-August.
- 2. Cut the remaining Sitka spruce saplings & trees in area 2.
- 3. Individual or small clumps of gorse in area 5 may be control burned. This shall only be done during the legal burning period and shall be properly controlled as directed by the project manager. The project manager shall provide training, required equipment and personal protective equipment (PPE), and relevant notifications and permit applications shall be made in advance.
- 4. Areas of bracken that are inaccessible by bracken bruiser may be controlled by spraying. This shall be done using knapsack sprayers with Asulox herbicide and concentrated in areas when the bracken is spreading into heath habitat. A max of 1ha to be done in any one year.
- 5. Consider planting some broadleaf trees in area 16. These shall be native trees of local provenance, and details of planting plan shall be provided by ecologist/project manager.

### Year 3 (2022)

1. To be reviewed at the end of Year 2

### Shepherding

| Average time per shepherding:           | 3 Hours  |
|---|--|
| No of times sheep are to be shepherded: | 2-3 Times per week from 1st April to 31st December |

### Identified objective of the shepherding;

- Stock to be encouraged into areas 1, 4 & 13, to get them to graze these areas.
- Monitor stock health, particularly for signs of tick diseases.
- Count numbers of deer grazing the commonage and areas they are grazing.

### Other works to be carried out for entire commonage:

- Use feed buckets to encourage more sheep grazing the commonage in the Jan/Feb and April/May period.
- Use the feed buckets to move grazing pressure away from the grass areas to overgrown areas in Jan/Feb period.

### **Grazing Management**

In year 1, accurate records of stock actually grazing on the commonage shall be kept to determine what exactly is happening at present. From this, a detailed grazing plan shall be developed for future years.

### **Ecological Assessment**

The commonage was surveyed in October 2020 by Faith Wilson to examine and review the implementation of the proposed measures and make any recommendations regarding same. The observations and recommendations from this visit are set out below.

### 3. 2020 Walkover Survey

# The following observations, comments on same and recommendations on the works completed in 2020 are presented.

### 3.1 Bracken Control

Bracken control was due to be implemented in 2020 but the machine that was proposed for use with the bracken bruiser (a John Deere gator) was broken. This measure will be implemented in 2021.

### 3.2 Upland Gully Woodland Restoration/Native Woodland Establishment

The establishment of gully woodland along the two watercourses in the commonage through a variety of techniques is to be conducted in early 2021.

Another area of native woodland will be established in area 16 and additional planting should take place to increase the small stand of existing trees in the western side of the commonage in area 3. Gorse that has been removed from alongside the track here could be used to protect new planting from deer by encircling them to prevent access.

Gorse cut from area 14 could provide a similar function to close off/reduce access by deer from the commonage to the newly planted trees in area 16.

Exclosures (covering several square meters) should also be erected around existing isolated trees to allow natural regeneration to occur.



Plate 1. Restoration of native woodland habitat along the watercourses in the site will be completed in 2021.



Plate 2. Fencing around trees such as this will allow us to see if natural regeneration from this seed source can become established in the absence of grazing pressure.

### 3.3 Previously Burnt Areas

Areas of hillside and the ridge that were previously burnt are slowly beginning to revegetate. These are dominated by a low sward of ling heather of uniform height. In some parts both hare's tail and common cotton grass are beginning to get established alongside purple moor grass but cross leaved heath and *Sphagnum* moss cover remains very rare. There is occasional growth of bilberry but this is also sparse. There must be no further burning on the commonage.



Plate 3. Heather regrowth following burning on the ridge.

### 3.4 Acid Grassland Habitats

The areas of acid grassland within the commonage are overgrazed and stocking rates need to be reviewed and likely reduced.



Plate 4. Areas of grassland habitat are overgrazed on the hill.

### 3.5 Gorse Removal

Gorse removal was in progress during the site visit in Area 14.

This was being done manually with a chainsaw. Arisings from same could be useful to protect newly established woodland areas.



Plate 5. Gorse removal.

## 3.6 Sitka Spruce Removal

Sitka spruce has been removed from Area 2, which is very welcome.

### 3.7 Management for 2021

A review of the works which were proposed for 2020 in the plan, coupled with the outcomes from the 2020 walkover was conducted. Items highlighted in red have not been completed. This has informed the proposed works for 2021.

### 2020

Cut back self-seeded Sitka spruce trees in Area 2

Use a bracken bruiser in area 5 and area 6, where it is accessible by a quad. Note-Care must be taken when using quad on rough or steep ground and obstacles should be marked in advance or by somebody walking in front of the quad. To be done in early-June and again in mid-August.

Cut gorse bushes in Area 14 with a tractor mounted mulcher. Large stones/rocks should be identified for contractor to prevent damage to machine. Cut gorse in Area 3 if accessible by tractor, but do not cut the broadleaf trees growing there. Other areas of gorse that are easily accessible by tractor in areas on the south side of the commonage may also be mulched.

Individual or small clumps of gorse in area 5 may be control burned. This shall only be done during the legal burning period and shall be properly controlled as directed by the project manager. The project manager shall provide training, required equipment and personal protective equipment (PPE), and relevant notifications and permit applications shall be made in advance.

Works in red were not completed

### 2021

Use a bracken bruiser in Area 5 and Area 6, where it is accessible by a quad.

Note: Care must be taken when using quad on rough or steep ground and obstacles should be marked in advance or by somebody walking in front of the quad. To be done in early-June and again in mid-August.

Cut gorse bushes in Area 14 with a tractor mounted mulcher to allow better access through the hill. Retain areas of gorse surrounding the existing trees here to protect them from gazing animals.

Areas of bracken that are inaccessible by bracken bruiser may be controlled by spraying. This shall be done using knapsack sprayers with Asulox herbicide and concentrated in areas where the bracken is spreading into heath habitat such as Area 13. A max of 2ha to be done in any one year.

Individual or small clumps of gorse in Area 5 may be cut.

Plant at least 100 native broadleaf trees in Area 16 and along the watercourse in the gully on the east side of the commonage. These shall be native trees of local provenance, and details of planting plan shall be provided by ecologist/project manager.

Use the feed buckets to move grazing pressure away from the grass areas to overgrown areas in Jan/Feb period.

Review stocking rates on the hill.

4. Appendix 1. Maps & Management Recommendations



Figure 1. Habitats mapped to Level Three (Fossitt, 2000) within the Slievemweel commonage.



Figure 2. Habitats mapped according to their correspondence with Annex I habitats within the Slievemweel commonage.



Figure 3. Habitat Condition Assessment for Slievemweel Commonage.



Figure 4. Management measures for Slievemweel.

| Management<br>Area | Fossitt Habitat<br>Code | Habitat Description                | Area (m2) | Management Measure   |
|--------------------|-------------------------|------------------------------------|-----------|--|
| 1                  | HH1                     | Dry heath                          | 176803    | No further burning<br>Shepherding of stock on the hill   |
| 2                  | HH3/GS4/PF2             | Wet heath/wet grassland/flush      | 121872    | No further burning<br>Shepherding of stock on the hill<br>Establishment of native woodland along the watercourse |
| 3                  | WS1                     | Gorse scrub                        | 13670     | This area has some emergent woodland developing.<br>This should be retained and enhanced                         |
| 4                  | HH3/GS4                 | Wet heath/wet grassland            | 226391    | No further burning<br>Shepherding of stock on the hill<br>Establishment of native woodland along the watercourse |
| 5                  | GS3/HD1                 | Acid grassland/dense bracken       | 311372    | Bracken control<br>Shepherding of stock on the hill<br>Establishment of native woodland along the watercourse    |
| 6                  | GS3/HD1                 | Acid grassland/dense bracken       | 72213     | Bracken control<br>Shepherding of stock on the hill  |
| 7                  | GS3/HD1                 | Acid grassland/dense bracken       | 3853      | Bracken control<br>Shepherding of stock on the hill  |
| 8                  | WS1/GS3/HD1             | Gorse scrub/acid grassland/bracken | 3183      | Bracken control<br>Shepherding of stock on the hill  |
| 9                  | WS1/GS3/HD1             | Gorse scrub/acid grassland/bracken | 3488      | Bracken control<br>Gorse control/could consider establishment of native woodland                                 |
| 10                 | WS1/GS3/HD1             | Gorse scrub/acid grassland/bracken | 4325      | Bracken control<br>Gorse control/could consider establishment of native woodland                                 |
| 11                 | WS1/GS3/HD1             | Gorse scrub/acid grassland/bracken | 11833     | Bracken control<br>Gorse control/could consider establishment of native woodland                                 |
| 12                 | WS1/GS3/HD1             | Gorse scrub/acid grassland/bracken | 15857     | Bracken control<br>Gorse control/could consider establishment of native woodland                                 |
| 13                 | HH3/GS4                 | Wet heath/wet grassland            | 36442     | No further burning<br>Shepherding of stock on the hill   |
| 14                 | WS1                     | Gorse scrub                        | 11555     | Gorse control/could consider establishment of native woodland  |
| 15                 | WS1                     | Gorse scrub                        | 11064     | Gorse control/could consider establishment of native woodland  |
| 16                 | WS1/GS3                 | Gorse scrub/acid grassland         | 13006     | Could consider establishment of native woodland  |

Table 1. Habitats present on Slievemweel Commonage and Management Recommendations.

| Management | Fossitt Habitat | Habitat Description                | Area (m2) | Management Measure  |
|------------|-----------------|------------------------------------|-----------|---|
| Area       | Code            |                                    |           |   |
| 17         | GS3/WS1/HD1     | Acid grassland/gorse/dense bracken | 2994      | Bracken control   |
|            |                 |                                    |           | Gorse control?  |
| 18         | HH1/WS1         | Autumn gorse scrub                 | 3438      | No further burning  |
|            |                 |                                    |           | Shepherding of stock on the hill                              |
| 19         | GS3/HD1         | Acid grassland/dense bracken       | 2444      | Bracken control   |
|            |                 |                                    |           |   |
| 20         | WS1             | Gorse scrub/acid grassland         | 1600      | Gorse control/could consider establishment of native woodland |
|            |                 |                                    |           |   |
| 21         | HH1/WS1         | Autumn gorse scrub                 | 3626      | No further burning  |
|            |                 |                                    |           | Shepherding of stock on the hill                              |
| 22         | WS1/GS3         | Gorse scrub/acid grassland/bracken | 2361      | Gorse control/could consider establishment of native woodland |
|            |                 |                                    |           |   |
| 23         | GS3/WS1/HD1     | Acid grassland/gorse/dense bracken | 24484     | Bracken control   |
|            |                 |                                    |           | Gorse control/could consider establishment of native woodland |
| 24         | HH3/GS4/PF2     | Wet heath/wet grassland/flush      | 11192     | No further burning  |
|            |                 |                                    |           | Shepherding of stock on the hill                              |
| 25         | HH3/GS4/PF2     | Wet heath/wet grassland/flush      | 3587      | No further burning  |
|            |                 |                                    |           | Shepherding of stock on the hill                              |

### 5. Appendix 2. Water Quality

The Slievemweel Stream, which is a tributary of the Coolballintaggart Stream rises within the commonage on the northern boundary of the commonage adjoining a forestry plantation. This stream flows south eastwards to join the Coolballintaggart Stream. The Askanagap Stream rises on the south-western side of the commonage. The Coolballintaggart Stream joins the Askanagap Stream (which is a tributary of the Derry Water) to the south east of the commonage. This tributary of the Derry Water River then joins the main channel of the Derry Water, which flows north easterly towards Aughrim Village.

Water samples were taken from two sampling locations one on the Slievemweel Stream and one on the Askanagap Stream as shown on **Figure 5** below.

The water samples were assessed by Carl Dixon and both of the headwater streams (SL1 and SL2) were assessed as a stream 'At Risk' of not achieving 'Good' water quality status.

The Small Streams Risk Score (SSRS) is a biological risk assessment system for identifying rivers that are definitely 'at risk' of failing to achieve the 'good' water quality status goals of the Water Framework Directive (WFD). It was developed by the Environmental Protection Agency (EPA) in association with the Western River Basin District (WRBD) in 2006. The main aim of the SSRS is to support the programme of measures for the WFD which has its main objective to achieve 'good' water quality status in all water bodies by 2020.



Figure 5. Water quality sample locations at Slievemweel.

# SUAS Water Quality Sampling

| River:                 | Code:                   | Date:                 | Sample Taken By:  |
|------------------------|-------------------------|-----------------------|-------------------|
| Corndog Stream         | IE EA 10A060400         | 10/03/2020            | Faith Wilson      |
|                        | downstream              |                       |                   |
| (Askanngap Stream 010) |                         |                       |                   |
|                        | Not coded - unnamed     |                       |                   |
|                        | stream - not shown on   |                       |                   |
|                        | EPA maps – near         |                       |                   |
|                        | drinking water supply   |                       |                   |
|                        |                         |                       |                   |
| Sample Number:         | Location:               | Stream Order:         | Grid Reference:   |
| SL1                    | Near track entering the | 1 <sup>st</sup> order | T 04732 80529     |
|                        | commonage – this stream |                       |                   |
|                        | then flows through      |                       |                   |
|                        | cutover bog to the      |                       |                   |
| Volocitar              | Clarita                 | Colorer               | Discharge         |
| Velocity:              | Voru cloar              | Colour:               | Elaad             |
| Fact                   | Cloar                   | Slight                | Normal            |
| Modorato               | Slightly turbid         | Modorato              |                   |
| Slow                   | Highly turbid           | High                  | Verylow           |
| Vory Slow              |                         |                       | Dry               |
| Very Slow              |                         |                       | Recent flood      |
|                        |                         |                       | Recent nood       |
| Modifications: Y/N     | Dominant Types:         | Slope:                | Geology:          |
| Canalised              | Bedrock                 | Low                   | Calcareous        |
| Widened                | Boulder (>128mm)        | Medium                | Siliceous         |
| Bank erosion           | Cobble (32 - 128mm)     | High                  | Mixed             |
| Arterial drainage      | Gravel (8 – 32mm)       | Very high             |                   |
| 0                      | Fine gravel (2 - 8mm)   |                       |                   |
|                        | Sand (0.25mm – 2mm)     |                       |                   |
|                        | Silt (<0.25mm)          |                       |                   |
|                        |                         |                       |                   |
| Substratum Condition:  | Substratum:             | Degree of Siltation:  | Depth of Mud:     |
| Compacted              | Stoney bottom           | Clean                 | None              |
| Loose                  | Muddy bottom            | Slight                | <1cm              |
| Normal                 | Mud over stones         | Moderate              | 1-5cm             |
|                        |                         | Heavy                 | 5-10cm            |
|                        |                         |                       | >10cm             |
|                        |                         |                       |                   |
| Litter:                | Filamentous Algae:      | Stream Flow:          | Shading:          |
| None                   | None                    | Riffle                | High              |
| Present                | Present                 | Kittle/glide          | Moderate          |
| Moderate               | Moderate                | Slow flow             | Low               |
| Abundant               | Abundant                |                       | None              |
| Stock Access           | Sourago Fungues         | Sample Type (Mine): 4 | Main Land Use     |
| STOCK ACCESS:          | Sewage rungus:          | Sample Type (Mins): 4 | Adjacent/Unstream |
| Deer                   | None                    | Kick sample           | Pasture           |
| Sheen                  | Present                 | Stone washing         | Bog               |
| Horses                 | Moderate                | Weed sweep            | Forestry          |
| Cattle                 | Abundant                |                       | Tillage           |
|                        |                         |                       | Urban             |
|                        |                         |                       | Other             |
|                        |                         |                       |                   |



Plate 1. Photographic record of sampling location.

# sleven 1

| Chatian no   |  | Longhi   |  |  |   | -  | C  |  |   |  |                                |
|--|--|--|--|--|---|--|--|--|---|--|--------------------------------|
| station no.  |  | Location:  |  |  |   |  | Grid (6 fig  | jure)  | ):  |  |                                |
|  |  | Stream O   | rder:  |  |   |  | Stream flow  |  |   | and a second   | 1993                           |
| Field Ch   | emistry  | Modificatio  | ns: Y/N Car  | nalised-wid  | ened-bank eros  | ion-   | Riffle/Glide   |  |   |  |                                |
| DO%  |  | arterial draina  | age  |  |   |  | Slow flow  |  |   |  |                                |
| DO mg/l  |  | DominantT  | ypes:  |  |   | t  | The second   |  | 2.9   | 12 1 1 1 2 2   |                                |
| Temp (°C)  |  | Bedrock  | 01   |  |   | ł  |  |  |   |  |                                |
| Conductivity   |  | Cobble (32-12  | 28mm)  |  |   |  |  |  |   |  |                                |
| pH   |  | Gravel (8-32n  | nm)  |  |   | ł  |  |  |   |  |                                |
| Bank width (cm)  |  | Fine Gravel (2   | 2-8mm)   |  |   | -  |  |  |   |  |                                |
| Wet width (cm)   |  | - Sand (0.25-2   | mm)  |  |   | -  |  |  | -   |  | -                              |
| Ava Depth (cm)   |  |  | n)   |  |   | +  |  | -  |   |  |                                |
| Staff osuga  |  | Slope: Low -   | - Medium -   | High - Ve  | ry High   | -  | Charles II   |  | -   |  |                                |
| Velocity   | Colour   | Geology: Ca  | Icareous-S   | liceous-Min  | ed  |  | Shading: Hi  | gn – M   | looerat   | ce-Low-N   | one                            |
| Torrential   | None   | Cubatant   | Candiata   | -  | -   | H  | Cattle acces   | S Y: 10  | ostrear   | m-downstr  | eamo                           |
| Fast   | Slight   | - Substratum   | Condition  | n: Calcareo  | us-Compacted-   |  | CHELIE BOULD   |  | parrea  |  | cant                           |
| Moderate   | Moderate   | Substratum   |  |  |   |  |  |  |   |  |                                |
| Slow   | High   | Stoney botton  | m-Muddy b  | ottpm-Mud  | over stones   | 1  | Photo: Y/  | N  |   | COLOR NO.  | -                              |
| Very slow  | Discharge  | Degree of ci   | Itation: C   | lean Slick   | Moderate Han  |  |  |  |   |  |                                |
| Very clear   | Discharge  | Degree di si   | L  | sal - Jugit  |   | ,  |  |  |   |  |                                |
| very clear   | Pi000  | Depth of mu  | Id: None: «  | <1cm: 1-50   | cm: 5-10cm: >1  | .0am   |  |  |   |  |                                |
| Clear  | Normal   | Litter: None   | - Present -  | - Moderate   | - Abundant  |  |  |  |   |  |                                |
| ch lal a lat   |  | Filamentous  | Algae  |  |   |  | Sewage Fun   | aue  | -   |  |                                |
| Slightly turbid  | Low  | None - Preser  | nt - Moder   | ate-Abund  | dant  |  | None - Preser  | nt-Me  | oderate   | e - Abundan  | t                              |
| Highly turbid  | Very Low   | Main land us   | seu/s:   |  | Sample  | -  | Sampled in   | Minut  | es:   |  | -                              |
|  | Dry  | Pasture  |  | Urban  | retained:   |  | Pond net x   |  |   |  |                                |
|  | The second second  | L LIDO   |  | 1112/00  | Y/N   |  | -  |  |   |  |                                |
|  | Recent Flood   | Buy  |  | out  |   |  | Stone wash x   |  |   |  |                                |
| General Commen   | recent Flood   | Forestry   | tabrata  | Other  | rition  |  | Stone wash x<br>Weed sweep :   | x  |   | Dalatio  |                                |
| General Commen   | recent Flood   | Macroinvert  | tebrate<br>specific gr   | Compo<br>oups  | sition  |  | Stone wash x<br>Weed sweep :   | x  |   | Relativ  | e                              |
| General Commen   | recent Flood<br>Its:<br>ates are divided int<br>phemeroptera (3-tr<br>econtera (2-trails)  | Macroinvert<br>o the following S<br>ails) – note that tails n  | tebrate<br>specific gn<br>ails may be  | Compo<br>oups<br>e damaged   | sition  | 9  | Stone wash x<br>Weed sweep :   | x  |   | Relative<br>Abunda   | e                              |
| General Commen<br>The macroinvertebr<br>Group 1 = E<br>Group 2 = D<br>Group 3 = J  | recent Flood<br>Its:<br>ates are divided into<br>phemorptera. (3-ta)-<br>icopptera. (2-ta)-<br>icopptera.  | Macroinvert<br>o the following S<br>ails) – note thatt<br>note that tails m  | tebrate<br>specific gr<br>ails may be<br>nay be dan  | Compo<br>oups<br>e damaged<br>naged durin  | isition<br>Iduring sampling   | 9  | Stone wash x<br>Weed sweep :   | x  |   | Relative<br>Abunda<br>1-5<br>6-20<br>21-50   | e                              |
| General Commen<br>The macroinvertebr<br>Group 1 = E<br>Group 2 = B<br>Group 3 = J<br>Group 4 = G   | recent Flood<br>Its:<br>ales are divided into<br>phemeroptera (3-tr<br>lecoptera (2-tails) -<br>ichoptera.<br>OL. D (Gastropoda  | Macroinvert<br>o the following 5<br>ails) – note thatt<br>note that tails m<br>Oligochaeta an  | tebrate<br>specific on<br>ails may be<br>nay be dan<br>dDiptera)   | Compo<br>oups<br>e damaged<br>naged durin  | iduring sampling  | 9  | Stone wash x<br>Weed sweep :   | x  |   | Relative<br>Abunda<br>1-5<br>6-20<br>21-50<br>51-100   | e                              |
| he macroinvertab<br>Group 1 = E<br>Group 2 = P<br>Group 3 = I<br>Group 4 = G   | recent Flood<br>its:<br>ates are divided int<br>phemeroptera (3-t-t-<br>ricboptera (2-t-ails)-<br>ricboptera<br>.oL.D (Gastropoda<br>sellus  | Macroinver<br>o the following 5<br>alis) – note that<br>note that tails m<br>& Oligochesta an  | tebrate<br>specific gn<br>ails may be<br>nay be dan<br>dDiptera)   | Compo<br>oups<br>e damaged<br>naged durin  | sition<br>Iduring sampling  | 9  | Stone wash x<br>Weed sweep :   | x  |   | Relative<br>Abunda<br>1-5<br>6-20<br>21-50<br>51-100<br>101+   | e                              |
| he macroinverteb<br>Group 1 = B<br>Group 2 = B<br>Group 3 = I<br>Group 4 = G<br>Group 5 = A<br>Calculate th  | recent Flood<br>its:<br>ates are divided into<br>phemeroptera (2-tais)-<br>sichoptera<br>.OL.D (Castropoda<br>selfus<br>e total number of ta   | Macroinver<br>o the following 5<br>ails) – note that<br>note that tails m<br>o Oigochaeta an<br>axa and relative a   | tebrate<br>specific gn<br>ails may be<br>anay be dan<br>dDiptera)<br>abundance   | Compo<br>oups<br>e damaged<br>naged durin  | sition<br>Iduring sampling<br>g sampling  | a  | Stone wash x<br>Weed sweep:  | x<br>dance-  | - Ab)   | Relative<br>Abunda<br>1-5<br>6-20<br>21-50<br>51-100<br>101+   | e                              |
| he macroinvertable<br>Group 1 = E<br>Group 2 = P<br>Group 3 = J<br>Group 4 = G<br>Group 5 = A<br>Calculate th<br>phemeroptera:   | Recent Flood<br>Its:<br>ates are divided in in<br>phemeroptera (3-to<br>lecoptera (2-tails)-<br>ichoptera<br>coloutera<br>coloutera<br>total number of ta  | Macroinver<br>o the following 5<br>ails) – note that tails m<br>A Qigocheeta an<br>axa and relative a<br>Exdynorums Al   | tebrate<br>specific gn<br>ails may be<br>anay be dan<br>dDiptera)<br>abundance<br>b  | Compo<br>oups<br>e damaged<br>naged durin<br>of each ma  | visition<br>Iduring sampling<br>acroinvertebrate  | g  | Stone wash x<br>Weed sweep :   | x<br>dance-  | - Ab)   | Relative<br>Abunda<br>1-5<br>6-20<br>21-50<br>51-100<br>101+<br>Leuctra Ab   | e                              |
| he macroinvertebr<br>Group 1 = E<br>Group 3 = I<br>Group 3 = I<br>Group 4 = G<br>Group 5 = A<br>Calculate th<br>phemeroptera:  | recent Flood<br>Its:<br>ates are divided into<br>phemeroptra (3-t-t-tais)-<br>ichoptera.<br>OL-D (Gastopoda<br>sellus<br>e total number of ta  | Macroinvert<br>o the following 5<br>ails) - note that<br>note that tails m<br>o Olgocheeta an<br>exa and relative a<br><i>Schytonouus</i> Al<br><i>Rhithmogena</i> Al  | tebrate<br>specific gn<br>ails may be<br>hay be dan<br>dDiptera)<br>abundance<br>b   | Compo<br>oups<br>a damaged<br>haged durin<br>of each ma  | vsition<br>Iduring samplin<br>g sampling<br>acroinvertebrate  | g  | Stone wash x<br>Weed sweep :<br>below: (Abun   | x<br>dance-  | - Ab)   | Relative<br>Abunda<br>1-5<br>6-20<br>21-50<br>51-100<br>101+<br>Leuctra Ab<br>Sagada Ab  | e<br>anco                      |
| he macroinverteb<br>Group 1 = E<br>Group 2 = T<br>Group 4 = T<br>Group 4 = T<br>Group 4 = A<br>Calculate th<br>phemeroptera:   | recent Flood<br>its:<br>ates are divided in th<br>phemeroptera (3-t-<br>ichoptera (2-tails)-<br>ichoptera (2 | Macroinvert<br>o the following 5<br>ails) – note that<br>note that tails m<br>to ligocheeta an<br>axa and relative a<br><i>Exclynonuus</i> Al<br><i>Rhitmaaen</i> Al<br><i>Haptagenia</i> Al   | tebrate<br>specific gn<br>ails may be<br>anay be dan<br>dDiptera)<br>abundance<br>b  | Compo<br>oups<br>e damaged<br>haged durin  | sition<br>Iduring samplin<br>g sampling<br>acroinvertebrate<br>ttera:   | a  | Stone wash x<br>Weed sweep :<br>below: (Abun   | x<br>dance-  | - Ab)   | Relative<br>Abunda<br>1-5<br>6-20<br>21-50<br>51-100<br>101+<br>Leuctra Ab<br>Sapedia Ab<br>Remurg Ab  | e<br>anco                      |
| he macroinvertable<br>Group 1 = E<br>Group 2 = P<br>Group 3 = I<br>Group 4 = G<br>Group 5 = J<br>Group 5 = A<br>Group 5 = A   | recent Flood<br>Its:<br>ates are divided in in<br>phemeroptera (3-to<br>phemeroptera (2-tails)-<br>ischoptera<br>(2-tails)-<br>ischoptera<br>(2-tails)-<br>total number of ta  | Macroinver<br>o the following 5<br>ails) – note that<br>note that tails m<br>a Oligocheeta an<br>exa and relative a<br><u>Endynouus Al</u><br><u>Rhithmogene Al</u><br><u>Heatagenia</u> Al  | tebrate<br>specific gr<br>ails may be<br>dan<br>dDiptera)<br>abundance   | Compo<br>oups<br>e damaged<br>naged durin<br>of each ma  | sition<br>Iduring sampling<br>sampling<br>acroinvertebrate<br>tera:   | g.<br>g  | Stone wash x<br>Weed sweep :<br>below: (Abun   | dance  | - Ab)   | Relative<br>Abunda<br>1-5<br>6-20<br>21-50<br>51-100<br>51-100<br>101+<br>Leuctra Ab<br>sonarda Ab<br>zemuca Ab  | e<br>anor                      |
| he macroinvertebr<br>Group 1 = E<br>Group 3 = I<br>Group 3 = I<br>Group 4 = G<br>Group 4 = G<br>Group 5 = A<br>Calculate th<br>ghemenoptera:   | recent Flood Its: altes are divided into phemeroptera (3-tr ecoptera (2-tails)- ichooptera. OL.D (Gastropoda et/los et/lo   | Macroinvert<br>o the following 5<br>alis) – note that<br>note that tails m<br>alis) – note that<br>note that tails m<br>alis) – note that<br>note that tails m<br>aligner and relative a<br><i>Echynonus</i> A<br><i>Haptagenia</i> A<br><i>Haptagenia</i> A<br><i>Cannise</i> A   | tebrate<br>specific gn<br>ails may be<br>and dDiptera)<br>abundance<br>b<br>b<br>b<br>b<br>b   | Compo<br>oups<br>e damaged<br>aaged durin<br>of eachma   | sition<br>Iduring sampling<br>scroinvertebrate  | a di   | Stone wash x<br>Weed sweep :<br>I below: (Abun   | dance-   | - Ab)<br>I<br>Brotonia  | Relative<br>Abunda<br>1-5<br>6-20<br>51-100<br>101+<br>Leuctra Ab<br>temuca Ab<br>temuca Ab  |                                |
| he macroinvertab<br>Group 1 = E<br>Group 2 = T<br>Group 4 = G<br>Group 5 = A<br>Group 5 = A<br>Group 5 = A<br>Group 5 = A  | Recent Flood Its: ates are divided in in phemeroptera (3-t- ischoptera OLD (Gastropoda sellus total number of ta   | Macroinvert<br>o the following 5<br>alis) – note that<br>note that tails m<br>oligocheeta an<br>oxa and relative a<br><i>Esdycourus</i> Al<br><i>Rhithmagena</i> Al<br><i>Ephemerella</i> Al<br><i>Grenis</i> Al   | tebrate<br>specific gn<br>ails may bi<br>nay be dan<br>dDiptera)<br>abundance<br>b<br>b<br>b   | Compo<br>oups<br>e damaged<br>haged durin  | isition<br>Iduring sampling<br>scroinvertabrate<br>teras  | a di contra di c | Stone wash x<br>Weed sweep :<br>below: (Abun   | x<br>dance-  | - Ab)<br>I<br>Broton<br>Arabia  | Relative<br>Abunda<br>1-5<br>6-20<br>21-50<br>51-100<br>101+<br>Leuctra Ab<br>seaneda Ab<br>seanuca Ab<br>genda Ab   |                                |
| Seneral Commen<br>- Group 1 = E<br>- Group 2 = P<br>- Group 3 = I<br>- Group 5 = A<br>- Group 5 = A<br>- Calculate th<br>- phemeroptera:   | Recent Flood<br>Its:<br>ates are divided in in<br>phemeroptera, (3-tr<br>lecoptera, (2-tails)-<br>ichoptera,<br>OLD (Gastropoda<br>sellus<br>total number of ta<br>Baa<br>Col  | Macroinvert<br>Forestry<br>Macroinvert<br>o the following 5<br>ails) – note that<br>note that tails an<br>exa and relative a<br><u>Babitmosena Al</u><br><u>Enbenzenia Al</u><br><u>Caenis Al</u><br><u>Caenis Al</u><br><u>Caenis Al</u>  | tebrate<br>specific gn<br>ails may be<br>anay be dan<br>dDiptera)<br>abundance<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b  | Compo<br>oups<br>e damaged<br>haged durin  | isition<br>Iduring sampling<br>secretion enterprise<br>secretion enterprise<br>secre  | a di cont  | Stone wash x<br>Weed sweep :<br>below: (Abun   | dance-   | - Ab)<br>I<br>Roston<br>Amabin<br>D   | Relative<br>Abunda<br>1-5<br>6-20<br>21-50<br>51-100<br>101+<br>Leuctra Ab<br>sonarda Ab<br>temura Ab<br>Beda Ab<br>Beda Ab  |                                |
| Seneral Commen<br>The macroinvertebu<br>Group 1 = E<br>Group 2 = J<br>Group 4 = G<br>Group 5 = J<br>Group 4 = G<br>Group 5 = J<br>Group 1 = E<br>Group 2 = J<br>Group 3 = J<br>Group 2 = J<br>Group 3 = J<br>Group 4 = G<br>Group 3 = J<br>Group 4 = G<br>Group 3 = J<br>Group 4 = G<br>Group 4 = G<br>G<br>G<br>G<br>G<br>G<br>G<br>G<br>G<br>G<br>G<br>G<br>G<br>G  | recent Flood Its: ates are divided into phemeroptera (3-t- its)- itspetera (2-tails)- itspetera (2-tails)- itspetera .OL.0 (Gastropoda et total number of ta   | Macroinvert<br>o the following S<br>alle) – note that<br>note that tails m<br>to ligocheeta an<br>axa and relative a<br><i>Edvoouse Al</i><br><i>Bhithroaena Al</i><br><i>Caenis Al</i><br><i>Caenis Al</i><br><i>Caenis Al</i><br><i>Caenis Al</i><br><i>Caenis Al</i><br><i>Caenis Al</i>  | tebrate<br>specific gn<br>ails may be<br>anay be dan<br>dDiptera)<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b               | Compo<br>oups<br>e damaged<br>haged durin  | isition<br>Iduring sampling<br>scroinvertebrate<br>tera:  | a di cont  | Stone wash x<br>Weed sweep :<br>b below: (Abun   | x dance-   | - Ab)<br>I<br>Broton<br>Amphin<br>D<br>Other  | Relative<br>Abunda<br>1-5<br>6-20<br>21-50<br>51-100<br>101+<br>Leuctra Ab<br>saneda Ab<br>temuca Ab<br>Reda Ab<br>Naccas Ab<br>Belecap Ab   |                                |
| Seneral Commen<br>Seneral Commen<br>Group 1 = E<br>Group 2 = D<br>Group 4 = G<br>Group 5 = A<br>Gloup 4 = G<br>Group 5 = A   | Recent Flood Its: ates are divided into phemeroptera (3-t- ischoptera ichoptera (2-t-is)- ichoptera ichopt   | Macroinvert<br>o the following 5<br>ails) – note that<br>note that tails m<br>a Oligocheeta an<br>oxa and relative a<br><i>Esdysouus</i> : Al<br><i>Rhithmagen</i> : Al<br><i>Eshemerella</i> Al<br><i>Genis</i> : Al   | tebrate<br>specific gn<br>ails may be<br>danay be dan<br>dDiptera)<br>abundance<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b | Compo<br>oups<br>e damaged<br>aged durin<br>of eachma<br>Plecop  | isition<br>Iduring sampling<br>scroinvertabrate<br>teras  | a dicont   | Stone wash x<br>Weed sweep :<br>> below: (Abun   | dance-   | - Ab)<br>I<br>Roston<br>Amabin<br>Other<br>Other  | Relative<br>Abunda<br>1-5<br>6-20<br>51-100<br>101+<br>Leuctra Ab<br>seanura Ab<br>Penta Ab  |                                |
| Seneral Commen<br>The macroinvertable<br>Group 1 = E<br>Group 2 = P<br>Group 3 = I<br>Group 5 = A<br>Calculate th<br>phemeroptera:<br>Total no. of taza  | Recent Flood Its: ates are divided into abemeroptitra (3-trails)- ichoptera, (2-tails)-  | Macroinvert<br>o the following S<br>ails) – note that<br>note that tails in<br>alls) – note that<br>note that tails in<br>all of the state<br>of the state<br>all of the state<br>Galentia All<br>other All of the state<br>and the state<br>all of th   | tebrate<br>specific gn<br>ails may be dan<br>dDiptera)<br>abundance<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>c<br>c<br>c<br>c             | Compo<br>oups<br>e damaged<br>haged durin<br>of each ma  | isition<br>Iduring sampling<br>scroinvertebrate<br>ttera:   | g<br>g   | Stone wash x<br>Weed sweep :<br>belav: (Abun   | dance-   | - Ab)<br>I<br>Ratabia<br>D<br>Other<br>Other &  | Relative<br>Abunda<br>1-5<br>6-20<br>21-50<br>51-100<br>101+<br>Leuctra Ab<br>seanua Ab<br>nemura Ab<br>Beanua Ab<br>Beanua Ab<br>Beanua Ab<br>Beanua Ab<br>Beanua Ab<br>Beanua Ab   |                                |
| Seneral Commen<br>The macroinvertebu<br>Group 1 = E<br>Group 2 = D<br>Group 4 = G<br>Group 4 = G<br>Group 4 = G<br>Calculate the<br>phemerophera:<br>Total no. of taxa<br>richoptera:  | recent Flood Its: ates are divided in th phemeroptara (3-t- ishoptera, (3-t- ishoptera, (2-tails)- ishoptera,  | Macroinvert<br>o the following S<br>alis) – note that<br>note that tails m<br>to clip content<br>of the state of the<br>content<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Mathemacean<br>Math   | tebrate<br>specific gn<br>ails may be<br>dan<br>dDiptera)<br>abundance<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b          | Compo<br>oups<br>e damaged durin<br>of eachma<br>Plecop  | sition<br>Iduring sampling<br>scroinvertebrate<br>tera:<br>   | g<br>g   | Stone wash x<br>Weed sweep :<br>b below: (Abun<br>below: (Abun<br>Total  | dance-   | - Ab)<br>I<br>Rootoo<br>Amabin<br>D<br>Other<br>Other &   | Relative<br>Abunda<br>1-5<br>6-20<br>21-50<br>51-100<br>101+<br>Leuctra Ab<br>Beanuela Ab<br>Beanuela Ab<br>Beanuela Ab<br>Beanue Ab<br>Belecop Ab<br>Belecop Ab<br>Belecop Ab   |                                |
| Seneral Commen<br>Seneral Commen<br>Group 1 = E<br>Group 2 = R<br>Group 5 = A<br>Group 5 = A    | Recent Flood Its: ates are divided into phemeroptera (3-t- ichoptera chaptera (2-t-iils)- ichoptera chaptera ctual number of ta  | Macroinvert<br>or the following 5<br>alis) – note that<br>note that tails m<br>a Oligocheeta an<br>axa and relative a<br><i>Esdysocuus</i> Al<br><i>Rhittmagena</i> Al<br><i>Heptagenia</i> Al<br><i>Caenis</i> A  | tebrate<br>specific gn<br>ails may be dan<br>dDiptera)<br>abundance<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b             | Compo<br>oups<br>damaged<br>ageddurin<br>of eachma<br>Plecop   | sition<br>Iduring samplin<br>go sampling<br>scroinvertabrate<br>tetera:   | 6<br>6<br>8  | Stone wash x<br>Weed sweep :<br>below: (Abun<br>below: (Abun<br><u>Total</u>   | x<br>dance-<br>d<br>Relat<br>(D) Ab<br>(D) Ab                                | - Ab)<br>A<br>Rootox<br>Amabin<br>D<br>Other<br>Other [<br>tive Ab  | Relative<br>Abunda<br>1-5<br>6-20<br>21-50<br>51-100<br>101+<br>Levctra Ab<br>sopera Ab<br>Recar Ab<br>Recar Ab<br>Recar Ab<br>Recar Ab<br>Recar Ab<br>Recar Ab<br>Recar Ab<br>Recar Ab<br>Recar Ab  |                                |
| Total no. of taxa  | Recent Flood  Its:  ates are divided into phemeroptera (3-t- its)- itspapera (2-tais)- itspapera OL-D (Gastropoda Elius Etotal number of ta  Bai Eph Contropodia Rhyacoph  | Macroinvert<br>Forestry<br>Macroinvert<br>o the following 5<br>alls) – note that<br>note that tails in<br>a Oigocheeta, an<br>axia and relative a<br><i>Exchronous</i> Al<br><i>Chortogenia</i> Al<br><i>Chortogenia</i> Al<br><i>Calentrahlebia</i> Al<br><i>Calentrahleb</i>   | tebrate<br>specific gro<br>ails may be<br>abundance<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b                             | Compo<br>oups<br>e damaged<br>aged durin<br>of eachma<br>Plecop<br>Total n<br>Lymnae<br>tamagurgu  | sition<br>Iduring sampling<br>scroinvertebrate<br>ttera:<br>  | d<br>a<br>a<br>a   | Stone wash x<br>Weed sweep :<br>b belaw: (Abun<br>Diranomidae<br><i>Chiranomidae</i>   | k<br>dance-<br>d<br>Relat<br>(D) Ab<br>(D) Ab                                | - Ab)<br>I<br>Rotoco<br>Atmabin<br>Other<br>Other F   | Relative<br>Abunda<br>1-5<br>6-20<br>21-50<br>51-100<br>101+<br>101+<br>101+<br>101+<br>101+<br>101+<br>101+   |                                |
| Seneral Commen<br>Group 1 = E<br>Group 2 = D<br>Group 4 = C<br>Group 4 = C<br>Group 4 = C<br>Calculate the<br>phemerophera:<br>Total no. of taxz   | recent Flood  its:  ates are divided in in phemeroptera (3-t- inhoptera (3-t- inhoptera (2-tails)- inhoptera .OL.D (Gastropoda e total number of ta  Bai Eph D Total Ree Hudropsychids Polycentropodia Rhyacopod Philopoteraida  | Macroinvert<br>o the following S<br>alis) – note that<br>note that tails in<br>the following S<br>alis) – note that<br>note that tails in<br>the following S<br><i>Exploratus</i> A<br><i>Rhithingaen</i> A<br><i>Rhithingaen</i> A<br><i>Rhithingaen</i> A<br><i>Rhithingaen</i> A<br><i>Rhithingaen</i> A<br><i>Rhithingaen</i> A<br><i>Caenis</i> A<br><i>Caeni</i> | tebrate<br>specific gn<br>alis may be dan<br>dDiptera)<br>abundance<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b             | Compo<br>oups<br>damaged<br>ageddurin<br>of eachma<br>Plecop<br>Lymnae<br>tamopyg<br>Angdu   | stition<br>Iduring sampling<br>scroinvertebrate<br>terea:<br>   | g  | Stone wash x<br>Weed sweep :<br>b below: (Abun<br>bicaoomidae<br><i>Chicaoomidae</i><br><i>Simulidae</i>   | x<br>dance-<br>Relate<br>(D) Ab<br>(D) Ab<br>(D) Ab                          | - Ab)<br>4<br>Brotono<br>0<br>Other<br>0<br>Other 1<br>tive Ab  | Relative<br>Abunda<br>1-5<br>6-20<br>21-50<br>51-100<br>101+<br>Leuctra Ab<br>Beanua Ab<br>Beanua Ab<br>Beanua Ab<br>Beanua Ab<br>Blecop Ab<br>Plecop Ab  |                                |
| Seneral Commen<br>The macroinvertable<br>Group 1 = E<br>Group 2 = P<br>Group 3 = I<br>Group 5 = I<br>Group 5 = I<br>Group 5 = A<br>Calculate th<br>Sphemerophera:  | Recent Flood  Its:  ates are divided into phemeroptitea (3-u chooptera (2-tails)- ichooptera .OL.D (Castoropoda ellus et otal number of ta   | Macroinverto<br>Forestry<br>Macroinverto<br>o the following 5<br>ails) – note that<br>note that tails in<br>a Oligochesta an<br><i>Biothonourus</i> Al<br><i>Biothonourus</i> Al<br><i>Biothonourus</i> Al<br><i>Biothonourus</i> Al<br><i>Caenis</i> Al   | tebrate<br>specific gn<br>ails may be<br>dan<br>dDiptera)<br>abundance<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b          | Compo<br>oups<br>e damaged<br>anaged durin<br>of eachma<br>Plecop<br><i>Total m</i><br><i>Lymnae</i><br><i>Lymnae</i><br><i>Lymnae</i><br><i>Anagu</i><br><i>Bleonb</i>  | sition<br>Iduring sampling<br>sg sampling<br>servinvertebrate<br>terea:<br>   | ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )  | Stone wash x<br>Weed sweep :<br>below: (Abun<br>below: (Abun<br><u>biotocomulae:</u><br><u>Chiconomulae:</u><br><u>Chiconomulae:</u><br><u>Chiconomulae:</u><br><u>Chiconomulae:</u><br><u>Chiconomulae:</u><br><u>Chiconomulae:</u>   | x<br>dance-<br>d<br>(D) Ab<br>(D) Ab<br>(D) Ab<br>(D) Ab                     | - Ab)<br>Amabin<br>Dother<br>Other (<br>ive Ab  | Relative<br>Abunda<br>1-5<br>6-20<br>21-50<br>51-100<br>101+<br>Leuctra Ab<br>Escar Ab<br>Elecop Ab<br>Pelcop Ab   |                                |
| Seneral Commen<br>Group 1 = E<br>Group 2 = D<br>Group 4 = G<br>Group 5 = D<br>Group 5 = D<br>Group 5 = D<br>Group 5 = D<br>Group 1 = E<br>Group 2 = D<br>Group 1 = E<br>Group 1 = E<br>Group 2 = D<br>Group 4 = G<br>Group 5 = D<br>Group 4 = G<br>Group 5 = D<br>Group 5 = D<br>Gr | Recent Flood Its: ates are divided into phemeroptera (3-t- its) its:   | Macroinvert<br>forestry<br>Macroinvert<br>o the following S<br>alls) – note that<br>note that tails m<br>to Uigocheeta, an<br>axa and relative a<br><i>Excluoranse</i> Al<br><i>Bhithroacene</i> Al<br><i>Alexanse</i> Al<br><i>Caenis</i> Al<br><i></i>   | tebrate<br>specific gr<br>ails may be<br>abundance<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b                              | Compo<br>oups<br>damaged<br>aged durin<br>of eachma<br>Plecop<br>Lymnae<br>tamagwa<br>Plagoth<br>Angylu<br>Physics<br>Physics<br>Angylu<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Physics<br>Ph   | sition<br>Iduring sampling<br>acroinvertebrate<br>tera:   | Ges direction of the second se | Stone wash x<br>Weed sweep :<br>below: (Abun<br>bionomidae<br><i>Chiconomidae</i><br><i>Chiconomidae</i><br><i>Chiconomidae</i><br><i>Chiconomidae</i><br><i>Chiconomidae</i>  | x<br>dance-<br>Relati<br>(D) Ab<br>(D) Ab<br>(D) Ab<br>(D) Ab                | - Ab)<br>Anabia<br>Data<br>Other G<br>Citye Ab  | Relative<br>Abunda<br>1-5<br>6-20<br>21-50<br>51-100<br>101+<br>Leuctra Ab<br>sanari/a Ab<br>sanari/a Ab<br>sanari/a Ab<br>Resona   |                                |
| Seneral Commen<br>Group 1 = E<br>Group 2 = B<br>Group 4 = G<br>Group 5 = A<br>Group 5 = A<br>Gr | Recent Flood Its: ates are divided in in phemeroptera (3-t- iscoptera (2-tails)- ichoptera .OL.D (Gastropoda sellus total number of ta Bata Eph Q Total Ref Rudropsychid Ruharapah Ehilopoteraida Limoephilda Sericostomatida Glosssomatida  | Macroinvert<br>Forestry<br>Macroinvert<br>o the following S<br>alis) – note that<br>note that tails m<br>to cligocheeta an<br>axa and relative a<br><i>Eschyoounus</i> Al<br><i>Rhithmacena</i> Al<br><i>Rhithmacena</i> Al<br><i>Rhithmacena</i> Al<br><i>Rhithmacena</i> Al<br><i>Rhithmacena</i> Al<br><i>Restricted a social</i><br><i>Alexandelsia</i> Al<br><i>Caenis</i> Al<br><i>Cae</i>   | tebrate<br>specific gn<br>ails may be<br>dan<br>d Diptera)<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b                      | Compo<br>oups<br>e damaged<br>haged durin<br>of each ma<br>Plecop<br><i>Lymnae</i><br><i>Risonth</i><br><i>Angelu</i><br><i>Risonth</i>  | sition<br>Iduring sampling<br>isg sampling<br>scroinvertebrate<br>tetera:<br>   | Ce:<br>education   | Stone wash x<br>Weed sweep :<br>below: (Abun<br>below: (Abun<br><u>bironomidee</u><br><u>Diranosta<br/>Simulidae</u><br><u>Diranosta</u>   | Relati<br>(D) Ab<br>(D) Ab<br>(D) Ab<br>(D) Ab<br>(D) Ab<br>Ab               | – Ab)<br>I<br>Riostor<br>Annahim<br>Other I<br>Other Ab   | Relative<br>Abunda<br>1-5<br>6-20<br>21-50<br>51-100<br>101+<br>Leuctra Ab<br>Beanuta Ab<br>Penuga Ab<br>P  |                                |
| Total no. of tax2  | Recent Flood Its:  ates are divided into phemeroptera (3-t- its)- itchoptera .OL-D (Sastropoda et local number of ta et local number   | Macroinvert<br>Forestry<br>Macroinvert<br>o the following S<br>alls) – note that<br>note that tails in<br>a Oigocheeta, an<br>axia and relative a<br><u>Scidyonnus Al</u><br><u>Allothonoena Allothonoena</u><br><u>Allothonoena Allothonoena</u><br><u>Allothonoena 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 | tebrate<br>specific gr<br>ails may be<br>abundance<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b                              | Compo<br>oups<br>a damaged<br>aged durin<br>of eachma<br>Plecop<br>Total n<br>Lymnae<br>tamopyg.<br>Planab<br>Angdu<br>Essaielli<br>Labiticides  | sition<br>during sampling<br>scroinvertebrate<br>tera:<br><br>o. of 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| Seneral Commen<br>The macroinverteb<br>Group 1 = E<br>Group 2 = B<br>Group 4 = G<br>Group 4 = G<br>Group 4 = G<br>Calculate th<br>phemeroptera:<br>Total no. of taxa<br>richoptera:  | Recent Flood Its: ates are divided in in phemeroptara (3-t- inboptera .0L.0 (Gastropoda e total number of ta   | Macroinvert<br>or the following S<br>lisb – note that<br>note that tails m<br>to che following S<br>lisb – note that<br>note that tails m<br>to Cligocheeta an<br>exa and relative a<br><u>Rhithroaena Al</u><br><u>Rhithroaena Al</u><br><u>Rhithroaena Al</u><br><u>Rhithroaena Al</u><br><u>Alestanahekin Al</u><br><u>ternera daoisa</u><br>Other Ephern Al<br><u>taitve Abundance</u><br><u>e Ab</u><br><u>G.A</u><br><u>isab</u><br><u>e Ab</u><br><u>isab</u><br><u>e Ab</u><br><u>isab</u><br><u>isab</u><br><u>isab</u><br><u>isab</u><br><u>isab</u><br><u>isab</u><br><u>isab</u>   | tebrate<br>specific on<br>alis may be dan<br>dDiptera)<br>abundance<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b             | Compo<br>oups<br>damaged<br>ageddurin<br>of eachma<br>elanageddurin<br>flecop<br>Unorthe<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riseop<br>Riso | sition during sampling scroinvertebrate teras  (G) Ab (G)   | grout  | Stone wash x<br>Weed sweep :<br>below: (Abun<br>below: (Abun<br><u>bironomidae</u><br><u>Aironomidae</u><br><u>Aironomidae</u><br><u>Aironomidae</u><br><u>Aironomidae</u><br><u>Aironomidae</u><br><u>Aironomidae</u><br><u>Aironomidae</u><br><u>Aironomidae</u><br><u>Aironomidae</u><br><u>Aironomidae</u><br><u>Aironomidae</u>   | k<br>dance-<br>d<br>(D) Ab<br>(D) Ab<br>(D) Ab<br>(D) Ab<br>(D) Ab<br>(D) Ab | - Ab)<br>Anabin<br>Dother<br>Other I<br>Cother I  | Relative<br>Abunda<br>1-5<br>6-20<br>21-50<br>51-100<br>101+<br>Leuctra Ab<br>Beanuta Ab<br>Beanuta Ab<br>Beanuta Ab<br>Beanuta Ab<br>Beanuta Ab<br>Blecop Ab<br>Plecop Ab  | e<br>ance                      |
| General Commen<br>General Commen<br>Group 1 = E<br>Group 2 = R<br>Group 4 = G<br>Group 5 = A<br>Calculate th<br>phememptera:<br>Total no. of taxa  | Recent Flood Its: ates are divided into phemeroptera (3-t- lecontra (2-t-lis)- ichoptera OL-D (Gastropoda sellus total number of ta Bata Eph Dojucentropodda Rhiapoptamida Limoephilda Seicostomatida Cother Tachaptera  | Macroinvert<br>Forestry<br>Forestry<br>Macroinvert<br>o the following 5<br>ails) – note thatt<br>note that tails in<br>a Oligochesta an<br><i>Babbaous</i> Al<br><i>Babbaous</i> Al<br><i>Babbaous</i> Al<br><i>Caenis</i>   | tebrate<br>specific gn<br>ails may be<br>dan<br>dDiptera)<br>abundance<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b<br>b          | Compo<br>oups<br>a damaged<br>anaged durin<br>of each ma<br>Plecop<br>Total m<br>Lymnae<br>Emopya<br>Rhys<br>Angda<br>Rhys<br>Libbicides   | sition<br>during 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(Abun<br>below:<br>Simulidae<br>Diraonotike<br>Simulidae<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonotike<br>Diraonoti | Relati<br>(D) Ab<br>(D) Ab<br>(D) Ab<br>(D) Ab<br>(D) Ab                     | - Ab)   | Relative<br>Abunda<br>1-5<br>6-20<br>21-50<br>51-100<br>101+<br>Leuctra Ab<br>sonada Ab<br>lecong Ab<br>Becong Ab<br>Blecong Ab<br>Blecong Ab<br>Blecong Ab<br>Person (-220<br>Commor<br>(>220<br>NOTE: A<br>must be<br>recorded<br>absent if<br>are four-   | e<br>ance                      |

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

Sieveny 1

Group 1 - 3 Tails Ephemeroptera Group 2 - 2 Tails Plecoptera T 1 No. of taxa No. of taxa 1 1 0 2+ 0 2+ 1-2 1-2 3+ 3+ 2 2 3+ 3+ 4 6 6 4 4 6 0 0 Group 4 G.OL.D Group 3 Trichoptera Т No. of taxa 1-2 1-2 3+ 0 3+ 0 1-2 3-6 3-6 7+ 7+ Relative 3+ Relative Abundance 3+ 4 0 4 2 0 4 4 0 Score Step 2 Group 5 Asellus a) Index Score Group 1 b) Index Score Group 2 CL No. of taxa c) Index Score Group 3 d) Index Score Group 4 Common (>20) 0 Absen Few (1-20) e) Index Score Group 5 4 2 0 Step.3. Calculate the Total Index Score, the Average Index Score and the SSR Score using the boxes below Total Index Score (TIS) 10 Average Index Score (AIS) TIS/5 (5 for 5 groups) (AIS x 2) Step.4. Assess the stream by comparing the final SSR score with the categories below and tick the appropriate box > 7.25 Probably not at risk > 6.5 - 7.25 Indeterminate <6.5 Stream at risk ( indeterminate may be at risk Name (print): CANI DUM Surveyor (signed):

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

# SUAS Water Quality Sampling

|                        | 1                      |                       |                    |
|------------------------|------------------------|-----------------------|--------------------|
| River:                 | Code:                  | Date:                 | Sample Taken By:   |
| Slievemweel Stream     | IE_EA_10A060400        | 10/03/2020            | Faith Wilson       |
| (Askanngap Stream 010) |                        |                       |                    |
|                        |                        |                       |                    |
| Sample Number:         | Location:              | Stream Order:         | Grid Reference:    |
| SL2                    | Edge of commonage –    | 1 <sup>st</sup> order | T 05552 80709      |
|                        | adjoining the forestry |                       |                    |
|                        |                        |                       |                    |
| Velocity:              | Clarity:               | Colour:               | Discharge:         |
| Torrential             | Very clear             | None                  | Flood              |
| Fast                   | Clear                  | Slight                | Normal             |
| Moderate               | Slightly turbid        | Moderate              | Low                |
| Slow                   | Highly turbid          | High                  | Very low           |
| Very Slow              |                        |                       | Dry                |
| Very blow              |                        |                       | Recent flood       |
|                        |                        |                       | Recent nood        |
| Modifications: V/N     | Dominant Types:        | Slope                 | Ceology            |
| Campliand              | Badraal:               | L and                 | Geology.           |
|                        | Beurock                | Low                   |                    |
| Widehed                | Boulder (>128mm)       | Medium                | Sinceous           |
| Bank erosion           | Cobble (32 - 128mm)    | High                  | Mixed              |
| Arterial drainage      | Gravel (8 – 32mm)      | Very high             |                    |
|                        | Fine gravel (2 - 8mm)  |                       |                    |
|                        | Sand (0.25mm – 2mm)    |                       |                    |
|                        | Silt (<0.25mm)         |                       |                    |
|                        |                        |                       |                    |
| Substratum Condition:  | Substratum:            | Degree of Siltation:  | Depth of Mud:      |
| Compacted              | Stoney bottom          | Clean                 | None               |
| Loose                  | Muddy bottom           | Slight                | <1cm               |
| Normal                 | Mud over stones        | Moderate              | 1-5cm              |
|                        |                        | Heavy                 | 5-10cm             |
|                        |                        |                       | >10cm              |
|                        |                        |                       |                    |
| Litter:                | Filamentous Algae:     | Stream Flow:          | Shading:           |
| None                   | None                   | Riffle                | High               |
| Present                | Present                | Riffle/glide          | Moderate           |
| Moderate               | Moderate               | Slow flow             | Low                |
| Abundant               | Abundant               |                       | None               |
|                        |                        |                       |                    |
| Stock Access:          | Sewage Fungus:         | Sample Type (Mins): 4 | Main Land Use      |
|                        |                        |                       | Adjacent/Upstream: |
| Deer                   | None                   | Kick sample           | Pasture            |
| Sheep                  | Present                | Stone washing         | Bog                |
| Horses                 | Moderate               | Weed sweep            | Forestry           |
| Cattle                 | Abundant               |                       | Tillage            |
| Cuttle                 |                        |                       | Urban              |
|                        | 1                      |                       | Other              |
| 1                      |                        |                       | omer               |



Plate 1. Photographic record of sampling location.

sievem 2

| River:   |  | Code:  | Date:   |  | 11   | ne:  |  |   | -         |
|--|--|--|---|--|--|--|--|---|-----------|
| Station no.  |  | Location:  |   | 1. 1. 1. 1. 1.   | Grid (6  | figure)  | ):   | 10.30   |           |
|  |  | Stream Order   |   |  | Stream   | low:   | -  |   | -         |
|  |  | Stream order   |   |  | Riffle   |  |  |   |           |
| Field Ch   | emistry  | Modifications: Y/N   | Canalised-wid   | ened-bank erosion-   | Riffle/Glid  | e  |  |   |           |
| 00%  |  | Dominant Types:  |   |  | Slow flow  |  |  | 12.316.4  | 10.01     |
| DO mg/l  |  | Bedrock  |   |  |  | 1918 6.4   | 12.24  | 1000  |           |
| Temp (*C)  |  | Boulder (>128mm)   |   |  |  |  |  | Mill with   |           |
| Lonductivity   |  | Cobble (32-128mm)  |   |  |  |  |  | 1922  |           |
| рН   | Call & Call  | Gravel (8-32mm)  |   |  |  |  |  |   |           |
| Bank width (cm)  | A PARTY OF   | Fine Gravel (2-8mm)  | )   |  |  |  |  | 100 Mar   | 12        |
| Wet width (cm)   |  | Silt (<0.25mm)   |   |  | 1.00   | 1. SE . S .  | a  | STALL AS  |           |
| Avg. Depth (cm)  |  | Clanar I am Mada   | m Wish Ve   | . tital  |  |  |  | Star Wall   |           |
| Staff gauge  |  | Slope: Low - Media   | m - nign - vei  | y ngn  | Shading  | : High - M   | loderat  | e-Low-N   | one       |
| Velocity   | Colour   | Geology: Calcareou   | us-Siliceous-Mix  | ed   |  |  |  |   |           |
| Fast   | None   | Substratum Condi   | ition: Calcareo   | us-Compacted-  | Cattle ac  | cess Y: u  | pstream  | n – downstr   | eam or    |
| Moderate   | Moderate   | Loose - Normal   |   |  |  |  |  |   |           |
| Slow   | High   | Substratum:  | 4. h  |  | Dhatas   | VIN  |  |   |           |
| Very slow  |  | Stoney bottom-Mude   | ay bottom-Mud   | overstones   | Photo:   | 1/14   |  |   |           |
| Clarity  | Discharge  | Degree of siltation  | n: Clean-Slight-  | Moderate-Heavy   |  |  |  |   |           |
| Very clear   | Flood  | Depth of mud: Nor  | ne: <1cm: 1-5c  | m: 5-10cm: >10cm   |  |  |  |   |           |
| Clear  | Normal   | Litter: None - Prese   | ent - Moderate  | - Abundant   |  |  |  |   |           |
| Slightly turbid  | Low  | Filamentous Algae  | Bi dana da  |  | Sewage   | Fungus:  |  |   |           |
| Highly turbid  | Very Low   | None - Present - Mo  | iderate - Abund   | I Samola   | None - Pr  | esent - Mo   | oderate  | e-Abundan   | t         |
| inginy curoid  | Dry  | Pasture  | Urban   | retained:  | Pond net   | in rinut   | 25   |   |           |
| NUMPER STREET  | Recent Flood   | Bog  | Tillage   | Y/N  |  |  |  |   |           |
|  |  | Forestor   | Other   |  | Stone was  | inx  |  |   |           |
| General Commen   | 15:  | Macroinvertebra  | ate Compo   | sition   | Weed swe   | ep x   |  | Pelatin   | •         |
| General Commen<br>The macroinvertebr<br>Group 1 = E  | ts:<br>ates are divided int<br>phemeroptera (3-1   | Macroinvertebra<br>o the following 5 specifi<br>ails) – note thattails ma  | te Compo<br>c groups<br>ry be damaged   | <b>sition</b><br>during sampling   | Weed swe   | ep x   |  | Relative<br>Abunda<br>1-5   | e         |
| General Commen<br>The macroinvertebr<br>Group 1 = E<br>Group 2 = 8<br>Group 3 = T  | ts:<br>ates are divided int<br>phemeroptera (3-t<br>ecoptera (2-tails)-<br>cichontera  | Macroinvertebra<br>o the following 5 specifi<br>alis) – note that tails may be   | ate Compo<br>c groups<br>by be damaged<br>damaged durin   | sition<br>during sampling<br>g sampling  | Weed swe   | ep x   |  | Relative<br>Abunda<br>1-5<br>6-20   | e         |
| General Commen<br>The macroinvertebr<br>Group 1 = E<br>Group 2 = P<br>Group 3 = II<br>Group 4 = G  | Its:<br>ates are divided int<br>phemeroptera (3-t<br>ichoptera<br>OLD (Gastropode  | Macroinvertebra<br>o the following 5 specifi<br>ails) – note thattails ma<br>note thattails ma<br>olisocheeta and Dipte  | ite Compo<br>c groups<br>ty be damaged<br>damaged durin<br>ra)  | <b>sition</b><br>during sampling<br>g sampling   | Weed swe   | ep x   |  | Relative<br>Abunda<br>1-5<br>6-20<br>21-50<br>5-1 100   | e         |
| General Commen<br>The macroinvertebr<br>Group 1 = E<br>Group 2 = B<br>Group 3 = II<br>Group 4 = G<br>Group 5 = A   | ates are divided into<br>phemeroptera. (3-t-<br>ichoptera, (2-t-ails)-<br>ichoptera,<br>.OL.D. (Gastropoda<br>sellus:  | Macroinvertebra<br>o the following 5 specifi<br>ails) – note thattails may be<br>note that tails may be<br>Oigochesta and Dipte  | te Compo<br>cgroups<br>ybe damaged<br>damageddurin<br>ra)   | <b>sition</b><br>during sampling<br>g sampling   | Weed swe   | ep x   |  | Relative<br>Abunda<br>1-5<br>6-20<br>21-50<br>51-100<br>101+  | e         |
| General Commen<br>The macroinvertebr<br>Group 1 = E<br>Group 2 = D<br>Group 3 = I<br>Group 4 = G<br>Group 4 = G<br>Group 5 = A   | ates are divided int<br>phemeroptera (3-t<br>lecoptera (2-tails)<br>coboptera<br>.OL.D. (Gastropode<br>sellus<br>a total number of ta  | Macroinvertebra<br>o the following 5 specific<br>bills) – note that trails ma<br>note that tails may be<br>a Oigoctasta and Dipte<br>wa and relative abunda  | ite Compo<br>c groups<br>tybe damaged<br>damaged durin<br>ra)<br>nce of eachma  | sition<br>during sampling<br>g sampling<br>croinvertebrate gro   | Weed swe   | ep x   | - Ab)  | Relative<br>Abunda<br>1-5<br>6-20<br>21-50<br>51-100<br>101+  | e         |
| General Commen<br>The macroinvertebr<br>Group 1 = E<br>Group 2 = B<br>Group 3 = D<br>Group 4 = G<br>Group 5 = A<br>Calculate th<br>Enhemerootera:  | Its:<br>altes are divided int<br>phemeroptera (3-t-<br>lecoptera (2-tails)-<br>sichaptera<br>CoLD (Gastropoda<br>sellus<br>total number of ta  | Macroinvertebra<br>othe following 5 specifi<br>alis) – note thattails may be<br>note that tails may be<br>Oligochesta, and Dipte<br>wa and relative abunda   | te Compo<br>c groups<br>sy be damaged<br>damaged durin<br>ra)<br>nce of eachma  | sition<br>during sampling<br>g sampling<br>croinvertebrategro  | Weed swe   | ep x   | - Ab)  | Relative<br>Abunda<br>1-5<br>6-20<br>21-50<br>51-100<br>101+  | e<br>ince |
| General Commen<br>The macroinvertebr<br>Group 1 = B<br>Group 2 = B<br>Group 4 = B<br>Group 4 = G<br>Group 4 = G<br>Group 4 = C<br>Aciculate the<br>Ephemeroptera:                                | its:<br>ates are divided int<br>phemeroptera (3-raits)-<br>ichoptera,<br>.oL.D (Castorpoda<br>eillus<br>total number of ta   | Macroinvertebra<br>othe following 5 specifi<br>alib) - note thattails may be <i>i</i><br>Oligochesta and Dipte<br>wa and relative abunda<br>Ectionous Ab   | ite Compo<br>c groups<br>ybe damaged<br>damaged durin<br>ra)<br>nce of eachma   | sition<br>during sampling<br>g sampling<br>croinvertebrate.gro   | Weed swe   | ep x   | - Ab)  | Relative<br>Abunda<br>1-5<br>6-20<br>21-50<br>51-100<br>101+  | e<br>ince |
| General Commen<br>The macroinvertabr<br>Group 1 = E<br>Group 2 = B<br>Group 3 = L<br>Group 4 = G<br>Group 5 = A<br>Calculate th<br>Ephemeroptera:  | ates are divided int<br>oberneroptera (3-t-<br>lecoptera (2-t-ails)-<br>sichoptera<br>O.L.D (Gastropode<br>selfus<br>total number of tr  | Macroinvertebra<br>o the following 5 specific<br>ails) – note thattails ma<br>note that tails may be<br>a Oigochesta and Dipte<br>wa and relative abunda<br>Ecchronous: Ab<br>Risthoneen Ab<br>Hentaneeni Ab   | ite Compo<br>c groups<br>ry be damaged<br>damaged durin<br>ra)<br>nce of eachma   | sition<br>during sampling<br>g sampling<br>croinvertebrate.gro<br>tera:  | Weed swe   | ep x   | - Ab)  | Relative<br>Abunda<br>1-5<br>6-20<br>21-50<br>51-100<br>101+<br>Leuctra Ab<br>soneda Ab   | e<br>ince |
| General Commen<br>The macroinvertebr<br>Group 1 = B<br>Group 2 = B<br>Group 4 = G<br>Group 5 = A<br>Group 5 = A<br>Calculate the<br>Ephemeroptera:   | aites are divided int<br>phemeroptra; 3-4-<br>ichoptera;<br>-OL-D (Gastopode<br>selfus<br>e total number of to   | Macroinvertebra<br>othe following 5 specifi<br>als) - note thattails may be<br>note that tails may be<br>. Oligochesta and Dipte<br>kad and relative abunda<br>. Eddponus Ab<br>. Abidungaena Ab<br>. Hetagenia Ab   | te Compo<br>c groups<br>ybe damaged<br>damaged durin<br>ra)<br>nce of eachma  | sition<br>during sampling<br>g sampling<br>croinvertebrate gro<br>tera:  | Weed swe   | bundance-  | – Ab)  | Relative<br>Abunda<br>1-5<br>6-20<br>21-50<br>51-100<br>101+<br>Leuctra Ab<br>sapeds Ab<br>temura Ab  | e<br>ince |
| General Commen<br>The macroinvertebr<br>Group 1 = B<br>Group 2 = B<br>Group 4 = G<br>Group 5 = A<br>Calculate the<br>Ephememptera:   | its:<br>ates are divided int<br>phemeroptera (2-aits)-<br>ichoptera,<br>.CL.D (Sastorpoda<br>et/lus<br>total number of ta  | Macroinvertebra<br>othe following 5 specifi<br>ails) – note thattails may be<br>via and relative abunda<br><i>Ecolynomus</i> : Ab<br><i>Ribitroacea</i> : Ab<br><i>Heptagenia</i> : Ab<br><i>Caperia</i> : Bh  | ite Compo<br>c groups<br>vy be damaged<br>damaged durin<br>ra)<br>nce of eachma   | sition<br>during sampling<br>g sampling<br>croinvertebrategro<br>tera:   | Weed swe   | bundance-  | – Ab)<br>I<br>Bioton<br>Amabia   | Relative<br>Abunda<br>1-5<br>6-20<br>21-50<br>51-100<br>101+<br>Leuctra Ab<br>temuca Ab<br>temuca Ab  | e<br>ince |
| General Commen<br>The macroinvertebr<br>Group 1 = B<br>Group 2 = B<br>Group 3 = I<br>Group 5 = A<br>Calculate the<br>chemerosptera:  | ates are divided int<br>bleeneroptra (3-4)<br>ichoptera (2-tails)<br>ichoptera<br>o.L.D (Gastropode<br>sellus<br>total number of ta  | Macroinvertebra<br>othe following 5 specific<br>ails) - note thattails ma<br>note that tails may be<br>and relative abunda<br>Endpronums Ab<br>Endpronums Ab<br>Endpronum Ab<br>Endpronum Ab<br>Endpronum Ab<br>Endpronum Ab   | ite Compo<br>c groups<br>y be damaged<br>damaged durin<br>ra)<br>nce of each ma   | sition<br>during sampling<br>g sampling<br>croinvertebrate gro<br>tera:  | Weed swe   | bundance-  | – Ab)<br>I<br>Batan<br>Aranbia   | Relative<br>Abunda<br>1-5<br>6-20<br>21-50<br>51-100<br>101+<br>Leuctra Ab<br>someria Ab<br>temuca Ab<br>feeda Ab   | e<br>ince |
| General Commen<br>The macroinvertebr<br>Group 1 = B<br>Group 2 = B<br>Group 3 = J<br>Group 5 = A<br>Group 5 = A<br>Calculate the<br>Ephemeroptera:   | aites are divided int<br>phemeroptera (3-4<br>ichoptera (-2-ails)-<br>ichoptera<br>selius<br>e total number of to<br><u>Baa</u>  | Macroinvertebra<br>othe following 5 specifi<br>alis) - note thattails may be<br>note that tails may be<br>oligochesta and Dipte<br>ka and relative abunda<br>Estry norus Ab<br>Rhithmaena Ab<br>Hestagenia Ab<br>Geois Ab<br>Geois Ab<br>alentaphébia Ab   | tte Compo<br>c groups<br>ly be damaged<br>damaged durin<br>ra)<br>rce of eachma   | sition<br>during sampling<br>g sampling<br>croinvertebrate gro<br>tera:  | Weed swe   | bundance-  | - Ab)<br>L<br>Ranan<br>Amabia<br>D   | Relative<br>Abunda<br>1-5<br>6-20<br>21-50<br>51-100<br>101+<br>exectra Ab<br>exacta Ab<br>exacta Ab<br>exacta Ab<br>exacta Ab<br>exacta Ab   | e<br>ince |
| General Commen<br>General Commen<br>Group 1 = B<br>Group 2 = B<br>Group 3 = A<br>Group 5 = A<br>Calculate the<br>Ephememptera:   | Its:<br>ates are divided int<br>phemeropters (3-zi-<br>ichopters<br>sellus<br>sellus<br>total number of tz<br>ates and a second<br>sellus<br>total number of tz<br>ates ates ates ates ates ates ates ates<br>ates ates ates ates ates ates ates ates  | Macroinvertebra<br>or the following 5 specific<br>isits) – note thattails may be<br>a Qigochesta and Dipte<br>wa and relative abunda<br>Endynonuus Ab<br>Abdtageoria Ab<br>Enheronenilia Ab<br>Enheronenilia Ab<br>Enheronenilia Ab<br>Enheronenilia Ab<br>Alextaahloikia Ab<br>emerra danizaAb  | ite Compo<br>c groups<br>lybe damaged<br>damaged durin<br>ra)<br>nce of each ma   | sition<br>during sampling<br>g sampling<br>croinvertebrate gro<br>tera:  | Weed swe   | bundance-  | – Ab)<br>L<br>Brotonobin<br>D<br>Other   | Relative<br>Abunda<br>1-5<br>6-20<br>21-50<br>51-100<br>101+<br>euctra Ab<br>encucra Ab<br>encucra Ab<br>encucra Ab<br>fector Ab<br>factor Ab   | e<br>ince |
| General Commen<br>The macroinvertebr<br>Group 1 = B<br>Group 2 = B<br>Group 3 = C<br>Group 5 = A<br>Calculate the<br>phemerosphere:  | ts:<br>ates are divided int<br>blemeroptra; (2-4;<br>ichoptera;<br>OL-D (Gastropode<br>selfus<br>total number of to<br><u>Bas</u><br><u>Bas</u><br><u>Bas</u>  | Macroinvertebra<br>o the following 5 specifi<br>ails) – note that tails may be<br>on the total tails may be<br>of the specific tails may be<br>and relative abunda<br>Endpronums Ab<br>Endermenik Ab<br>Gaeonis Ab<br>Gaeonis Ab<br>Gaeonis Ab<br>Gaeonis Ab<br>Gaeonis Ab<br>Caeonis Ab<br>Caeonis Ab<br>Caeonis Ab<br>Caeonis Ab<br>Caeonis Ab<br>Caeonis Ab<br>Caeonis Ab<br>Caeonis Ab   | te Compo<br>cgroups<br>y be damaged<br>damaged durin<br>ra)<br>nce of each ma   | sition<br>during sampling<br>g sampling<br>croinvertebrate gro<br>tera:  | Weed swe   | ep x<br>bundance-  | – Ab)<br>L<br>Rataa<br>Amabia<br>Other<br>Other  | Relative<br>Abunda<br>1-5<br>6-20<br>21-50<br>51-100<br>101+<br>euctra Ab<br>enauca Ab<br>Pada Ab<br>enauca Ab<br>Pada Ab<br>enauca Ab<br>Pada Ab<br>enauca Ab<br>Pada Ab<br>enauca Ab<br>Pada Ab<br>enauca Ab  | e<br>ince |
| Ceneral Commen<br>General Commen<br>Group 1 = B<br>Group 2 = B<br>Group 3 = J<br>Group 5 = A<br>Group 5 = A<br>Calculate the<br>Ephemeroptera:   | aites are divided int<br>phemeroptera (3-4)<br>ichoptera (-2-ails)-<br>ichoptera (-2-ails)-<br>ichoptera (-2-ails)-<br>et total number of to<br>et total number of to<br><u>Ba</u><br><u>Ba</u>  | Macroinvertebra<br>othe following 5 specifi<br>als) - note thattails may be<br>. Oligochesta and Dipte<br>was and relative abunda<br><i>Esthonous</i> Ab<br><i>Abithmoaena</i> Ab<br>ather Abundanc  | tte Compo<br>cgroups<br>y be damaged<br>damaged durin<br>ra)<br>rea of eachma<br>elecop   | sition<br>during sampling<br>g sampling<br>croinvertebrate gro<br>tera:  | Weed swe   | bundance-  | – Ab)<br>L<br>Raotaa<br>Amabia<br>Other<br>Other E   | Relative<br>Abunda<br>1-5<br>6-20<br>21-50<br>51-100<br>101+<br>Leuctra Ab<br>soneda Ab<br>remuca Ab<br>eleuca Ab<br>Beleop Ab<br>Blecop Ab<br>Blecop Ab  | e<br>ince |
| Total no. of taxa  | Its:<br>ates are divided in<br>berneroptera (3-t-<br>lecoptera (2-t-ails)-<br>schoptera<br>col. D (Sestropode<br>selfus<br>total number of ta  | Macroinvertebra<br>o the following 5 specifi<br>bills – note thattails ma<br>note that tails may be<br>a Qigochesta and Dipte<br>wa and relative abunda<br>Endpronuse Ab<br>Bahamana Ab<br>Entermenila Ab<br>Entermenila Ab<br>Chere Ephero Ab<br>attve Abundance<br>(6 Ab<br>[GoLD.D:   | ite Compo<br>c groups<br>ybe damaged<br>damaged durin<br>ra)<br>nce of each ma<br><u>Plecop</u>   | sition<br>during sampling<br>g sampling<br>croinvertebrate.gro<br>tera:  | Weed swe   | bundance-  | - Ab)<br>L<br>Roton<br>Amabin<br>D<br>Other<br>Other E   | Relative<br>Abunda<br>1-5<br>6-20<br>21-50<br>51-100<br>101+<br>Leuctra Ab<br>soned/a Ab<br>soned/a Ab<br>soned/a Ab<br>secura Ab<br>Becop Ab<br>Blecop Ab<br>sundance<br>Aselius   |           |
| Total no. of taxa  | Its:  ates are divided int beeneroptera (3-4) context (2-tails)- ichoptera O.L.D (Gastropode sellus total number of ta Bai Bai Bai Bai Bai Bai Bai Bai Bai Ba  | Macroinvertebra<br>o the following 5 specifi<br>alls) - note thattails may be<br>note that tails may be<br>wa and relative abunda<br>Esdycousts Ab<br>Rhithozeena Ab<br>Heptapenik Ab<br>Echemanelik Ab<br>Cateois Ab<br>Cateois Ab<br>Cateois Ab<br>Cateois Ab<br>Cateois Ab<br>Cateois Ab<br>Coher Ephece Ab<br>Stitre Abundance<br>(g Ab<br>GoLD:   | tte Compo<br>cgroups<br>y be damaged<br>damaged durin<br>ra)<br>nce of each ma<br>Plecop  | sition<br>during sampling<br>g sampling<br>croinvertebrate.gro<br>tera:  | Weed swe<br>up below: (A<br>Chicopono  | bundance-<br>bundance-<br>btal Relation<br>ace (D) Ab  | – Ab)<br><u>I</u><br>Rooton<br>Annabin<br>Other I<br>Other F   | Relative<br>Abunda<br>1-5<br>6-20<br>21-50<br>51-100<br>101+<br>eeucra Ab<br>saneda Ab<br>saneda Ab<br>saneda Ab<br>sana Ab<br>Becap Ab<br>Slecop Ab<br>Slecop Ab<br>Slecop Ab<br>Slecop Ab   |           |
| General Commen<br>General Commen<br>Group 1 = B<br>Group 2 = B<br>Group 5 = A<br>Group 5 = A<br>Calculate the<br>Ephemeroptera:  | Its: aites are divided int phemeroptera (3-4) color (2-ails)- ichoptera  | Macroinvertebra<br>othe following 5 specifi<br>alis) - note thattails may be<br>note that tails may be<br>aligochesta and Dipte<br>kan and relative abunda<br><i>Entynonuus</i> Ab<br><i>Rhöthmaea</i> Ab<br><i>Hentagenin</i> Ab<br><i>Genis</i> Ab   | tte Compo<br>c groups<br>ly be damaged<br>damaged durin<br>ra)<br>ncce of eachma<br>Placoop<br>D Total n<br>Lympas<br>Rizomoyugu<br>Rizomoyugu  | sition<br>during sampling<br>g sampling<br>croinvertebrate gro<br>tera:  | Weed swe<br>up below: (A<br><u>Chiconomic</u><br>Simulia   | bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundance-<br>bundan               | - Ab)<br>II<br>Raotanabia<br>Other<br>Other E<br>tive Ab   | Relative<br>Abunda<br>1-5<br>6-20<br>21-50<br>51-100<br>51-100<br>101+<br>Leuctra Ab<br>Resa Ab<br>R |           |
| General Commen<br>General Commen<br>Group 1 = E<br>Group 2 = B<br>Group 3 = I<br>Group 5 = I<br>Group 5 = I<br>Group 5 = I<br>Calculate th<br>Calculate th<br>Ephememptera:<br>Total no. of taxa | Tes:  Tes: Tes:  | Macroinvertebra<br>or the following 5 specific<br>ails) – note that trails many be<br>note that tails may be<br>and relative abunda<br>Eccliptonuus: Ab<br>Echeoneelle Ab<br>Gaeosia: Ab<br>Gaeosia: Ab<br>Caeosia: A | te Compo<br>corous<br>y be damaged<br>damaged durin<br>ra)<br>nce of each ma<br>Plecop<br>Lyznae<br>Rotamopygu<br>Blaoob  | sition<br>during sampling<br>g sampling<br>croinvertebrate gro<br>tera:  | Weed swe<br>up below: (A<br><u>Chiconomic</u><br><u>Chiconomic</u><br><u>Simulit</u><br><u>Dictonomic</u>  | bundance-<br>bundance-<br>data Relati<br>ase (D) Ab<br>lae (D) Ab<br>lae (D) Ab  | - Ab)<br>L<br>Rastan<br>Amabia<br>Other I<br>Other F   | Relative<br>Abunda<br>1-5<br>6-20<br>21-50<br>51-100<br>101+<br>Leuctra Ab<br>soneda Ab<br>reazusa Ab<br>Recta Ab<br>Recay Ab   |           |
| General Commen<br>The macroinvertebr<br>Group 1 = B<br>Group 2 = B<br>Group 5 = A<br>Group 5 = A<br>Calculate the<br>phemenoptera:<br>Total no. of taxa  | ts:  ts:  ts:  ts:  ts:  ts:  ts:  ts:   | Macroinvertebra<br>o the following 5 specifi<br>also - note thattails may be<br>note that tails may be<br>and relative abunda<br><i>Extransus</i> Ab<br><i>Robitnozena</i> Ab<br><i>Haptapenia</i> Ab<br><i>Exbearsenia</i> Ab<br><i>Caepis</i> Ab   | tte Compo<br>groups<br>y be damaged<br>damaged durin<br>ra)<br>nce of each ma<br>Plecop<br><i>Lymae</i><br><i>Ratangoyagu</i><br><i>Ratangoyagu</i><br><i>Ratangoyagu</i>   | sition<br>during sampling<br>g sampling<br>sampling<br>croinvertebrate gro<br>tera:<br>                                  | Weed swe<br>up below: (A<br><u>Chiconomic</u><br><u>Chiconomic</u><br><u>Chiconomic</u><br><u>Chiconomic</u><br><u>Chiconomic</u>  | bundance-<br>bundance-<br>dae (D) Ab<br>ae (D) Ab<br>ae (D) Ab<br>ae (D) Ab  | - Ab)<br>I<br>Raataa<br>Aanabia<br>Other<br>Other E  | Relative<br>Abunda<br>1-5<br>6-20<br>21-50<br>51-100<br>101+<br>eeucera Ab<br>eenuera Ab<br>Becora Ab<br>Becora Ab<br>Becora Ab<br>Becora Ab<br>Becora Ab<br>Secora Ab<br>S   |           |
| General Commen<br>Group 1 = B<br>Group 2 = B<br>Group 3 = G<br>Group 5 = A<br>Calculate the<br>Ephememptera:   | Its: ates are divided int phemeroptera (3-to-<br>ichoptera, 0-L.) (Gastropode<br>sellus to tal number of ta ates are divided int ates are dint ates are divided int ates are divided int ates are divided in | Macroinvertebra<br>or the following 5 specific<br>isits) – note thattails may be<br>a Qigochesta and Dipte<br>wa and relative abunda<br>Endyconuus Ab<br>Abidhonzeen Ab<br>Abidhonzeen Ab<br>Enhernenellin Ab<br>Caenar Ab<br>Caenar Ab<br>Caenar Ab<br>Caenar Ab<br>Chere Ephern Ab<br>ative Anumance (<br>e Ab<br>G.OL.D:<br>e Ab<br>e Ab<br>e Ab  | ite Compo<br>c groups<br>ybe damaged<br>damaged durin<br>ra)<br>nce of each ma<br><u>l plecop</u><br><u>l total n</u><br><u>l tympse</u><br><u>Rotamagurga</u><br><u>Rotamagurga</u><br><u>Rotamagurga</u>  | sition           during sampling           g sampling           croinvertebrate gro           tera:                      | Weed swe<br>up below: (A<br><u>Chiconomic</u><br><u>Chiconomic</u><br><u>Chiconomic</u><br><u>Chiconomic</u><br><u>Chiconomic</u>  | vtal Relati<br>ae (D) Ab Ab<br>ae (D) Ab Ab<br>ae (D) Ab Ab<br>ae (D) Ab   | - Ab)<br>L<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata<br>Rata | Relative<br>Abunda<br>1-5<br>21-50<br>21-50<br>101+<br>Leuctra Ab<br>Sanada Ab<br>Berazura Ab<br>Berazura Ab<br>Blecop Ab<br>Blecop Ab<br>Blecop Ab<br>Slecop Ab<br>Commor<br>(5-20   |           |
| General Commen<br>General Commen<br>Group 1 = B<br>Group 2 = B<br>Group 3 = G<br>Group 5 = A<br>Calculate the<br>chemenoptera:   | ts:  ates are divided int blemeroptra (3-4) context (2-tails) ichoptera OLD (Gastropoda sellus total number of ta blackstoped        | Macroinvertebra<br>othe following 5 specific<br>ails) – note that tails main<br>note that tails may be in<br>Oligochesta, and Dipte<br>wa and relative abunda<br>Endronous: Ab<br>Endermenia Ab<br>Endermenia Ab<br>Endermenia Ab<br>Endermenia Ab<br>Cateoria Ab<br>Cateoria Ab<br>Cateoria Ab<br>Cother Epbern Ab<br>Etho Ab<br>Eraba<br>Cother Epbern Ab<br>Ethol<br>Endo   | te Compo<br>cgroups<br>y be damaged<br>damaged durin<br>ra)<br>nce of each ma<br>Plecop<br>Usanase<br>Antamopyou<br>Blecop<br>Botamopyou<br>Blecop<br>Botamopyou<br>Blecop<br>Botamopyou  | sition           during sampling           g sampling           g sampling           croinvertebrate gro           tera: | Weed swe<br>up below: (A<br>biconomic<br><i>Chiconomic<br/>Distanta</i><br>Tapulic<br>Deratopogoni<br>Other G  | vtal Relati<br>age(D) Ab<br>aus(D) Ab<br>age(D) Ab<br>Ab<br>Ab<br>Ab<br>Ab<br>Ab<br>Ab<br>Ab<br>Ab | – Ab)<br><u>I</u><br>Broton<br>Acabin<br>D<br>Other F<br>Cother F  | Relative<br>Abunda<br>1-5<br>6-20<br>21-50<br>51-100<br>101+<br>Leuctra Ab<br>somedya Ab<br>sersura Ab<br>sersura Ab<br>sersura Ab<br>sersura Ab<br>sersura Ab<br>sersura Ab<br>secon Ab  |           |
| Total no. of taxa  | Its:  Its:  Its:  Its:  Its: Its: Its:   | Macroinvertebra<br>othe following 5 specifi<br>sils) - note thattails may be<br>note that tails may be<br>waand relative abunda<br>Estiponuus Ab<br>Rhithunzenz Ab<br>Rhithunzenz Ab<br>Reative abundance<br>Rhithunzenz Ab<br>Reative Abundance<br>(e Ab<br>Reative Abundance<br>(e Ab<br>Reative Abundance<br>(e Ab<br>Reative Abundance)<br>(e Ab   | tte Compo<br>cgroups<br>y be damaged<br>damaged durin<br>ra)<br>nce of each ma<br>Plecop<br>D Total 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| bundance-<br>bundance-<br>batal Relati<br>ae (D) Ab<br>ae (D) Ab<br>dae (D) Ab<br>dae (D) Ab   | - Ab)<br>Amabia<br>Other<br>Cother E   | Relative<br>Abunda<br>1-5<br>6-20<br>21-50<br>51-100<br>101+<br>eeuctra Ab<br>eenuca Ab<br>eenuca Ab<br>Becon Ab<br>Becon Ab<br>Becon Ab<br>Becon Ab<br>Jecon Ab<br>Jecon Ab<br>Terw (1-20<br>Commor<br>(>20<br>NOTE: A<br>NOTE: A<br>NOTE: A   |           |
| General Commen<br>The macroinvertebr<br>Group 1 = E<br>Group 2 = B<br>Group 3 = G<br>Group 5 = A<br>Calculate th<br>Entemenspitera:  | Its: Its: Its: Its: Its: Its: Its: Its:  | Macroinvertebra<br>o the following 5 specific<br>isle - note thattails may be<br>a Qigochasta and Dipte<br>wa and relative abunda<br>Endpronuus; Ab<br>Abithroaena Ab<br>Abithroaena Ab<br>Abathroaena Abathroaena Ab<br>Abathroaena Ab<br>Abathroaena Abathroaena Ab<br>Abathroaena Abathroaena Abathroaena<br>Abathroaena Abathroaena Abathroaena<br>Abathroaena Abathroaena Abathroaena Ab<br>Abathroaena Abathroaena Ab<br>Abathroaena Abathroaena Abathroaena Ab<br>Abathroaena Abathroaena Abathroaena Ab<br>Abathroaena Ab<br>Abathroaena Abathroaena Ab<br>Abathroaena Ab<br>Abathroaena Abathroaena Ab<br>Abathroaena Abathroaena Abathroaena Ab<br>Abathroaena Abathroaena Abathroaena Ab<br>Abathroaena Abathroaena Abath   | te Compo<br>c groups<br>ybe damaged<br>damaged durin<br>ra)<br>nce of each 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NOTE Baetis is an Ephemeropteran and is the most commonly occurring invertebrate genus in streams in Ireland. It is vital that Baetis is not counted in SSRS. See Appendix B for more details on how to identify Baetis.

