# NS 2 FRESHWATER PEARL MUSSEL SUB-BASIN MANAGEMENT PLANS

# REPORT ON MORPHOLOGICAL MONITORING AND CATCHMENT WALKOVER RISK ASSESSMENTS IN THE MUNSTER BLACKWATER CATCHMENT

**September 2009**

**TABLE OF CONTENTS**

# INTRODUCTION

In order to assess the hydromorphological alterations within the Munster Blackwater catchment the EPA WFD classification tool called the River Hydromorphology Assessment Technique (RHAT) was utilised by RPS. This tool was developed through the North South Share project, to classify rivers in terms of their morphology. It is a field technique which assigns a channel typology. This influences the rivers physical attributes assessed in the field. The technique assigns a morphological classification directly related to that of the WFD – high, good, moderate, poor and bad.

RHAT surveys were carried out at high risk areas located within pearl mussel populations. The methodology classifies river hydromorphology based on a departure from naturalness, and assigns a morphological classification, based on semi-quantitative criteria. It is designed to be a rapid visual assessment based on information from desktop studies, using GIS data, aerial photography, historical data and data obtained from previous field surveys as well as observations in the field.

A catchment walkover risk assessment survey sheet was also designed by the project team in conjunction with NPWS in order to focus the collation of the pressure data in the field with respect to the Freshwater Pearl Mussel. The risk sheet was divided into eight categories designed to highlight the main pressures within the catchment. The eight categories are as follows:

- Source of erosion
- Diffuse Nutrient
- Diffuse Silt
- Current Riparian Zone
- Field Drainage
- Outfalls
- Abstractions
- Barriers to Migration

Each sub-pressure within the eight categories is analysed and an overall risk assessment of High, Medium or Low is assigned to that category. The “one out all out principle” is then used to assign the river stretch or point an overall risk category. A detailed description, together with a series of photographs outlining the pressures is also taken. The risk assessment sheets will assist the project team in focussing the specific freshwater pearl mussel measures within the catchment.

Location of survey stretches and points are shown in Figure 1

## 2.0 METHODOLOGY

Sampling was carried out between the 6th and the 10th of July 2009.

### 2.1 RIVER HYDROMORPHOLOGY ASSESSMENT TECHNIQUE (RHAT)

Classification of hydromorphology can be used to contribute to the status classification of water bodies at high ecological status only. However, RHAT plays a vital role in identifying why a water body might be failing to achieve Good Ecological Status as it is based on the observed impact in the field. It can assist in deciding what indirect and direct efforts are needed to improve status and in helping to prevent further deterioration.

The eight criteria that are scored are:

1. Channel morphology and flow types
2. Channel vegetation
3. Substrate diversity and embeddedness
4. Channel flow status
5. Bank and bank top stability
6. Bank and bank top vegetation
7. Riparian land use
8. Floodplain connectivity

Sheet 1 of the RHAT form contains the Field Health and Safety sheet which is filled on arrival at the site. Before the field survey, a desk study is required this element of the survey was completed as part of the development of the draft sub-basin management plans. The reach identification and physical characterization sections for each field site are recorded on Sheet 2 (see Appendix 1) with all information available from GIS and aerial photographs, including:

a. expected stream type and the description of various stream types
b. catchment and reach-scale pressures (these may help to identify, confirm or explain field observations);
c. expected riparian vegetation types (for high quality status);
d. the weather conditions on the day of the survey, and those immediately preceding the day of the survey. This information is important to interpret the effects of storm events on the survey results;
e. the estimated stream width and the reach length to be assessed (~ 40 x width).
f. any other notable issues (e.g. from previous surveys).

A score is allocated to each relevant attribute (the number of attributes to be assessed will depend on the stream type). Where the condition departs from the reference condition, note should be made if this condition results from a particular identifiable pressure. Where possible and where relevant, all attributes should be included in the assessment, using the assessment sheet (Sheet 3, see Appendix 1). If an attribute is not assessed, the score-summary table should be amended (cells shaded) and a note made as to why the assessment was not carried out. The WFD status can still be calculated on the basis of other attributes, but with a note that a particular attribute was omitted.

Transfer scores for individual attributes to the summary table on the survey Sheet 2. Finally the overall WFD category can be calculated using the following values:

> 0.8 = high
0.6 – 0.8 = good
0.4 – 0.6 = moderate
0.2 – 0.4 = poor
< 0.2 = bad

For the purposes of the assessment as part of the NS2 project, a high status for morphology is desirable for pearl mussel habitats. Through work carried out by the Shannon IRBD project on the Freshwater Morphology Programme of Measures Study, it was found that an observed relationship exists between biological data and a RHAT score. The study confirmed that morphological pressure can impact biology and therefore ecological status. In general, sites with RHAT scores less than 0.6 also have less than good Q scores. Similarly high levels of siltation affecting macrophyte populations are reflected by less than good RHAT scores.

Grid references were recorded at all sites using a GPS together with site photographs which were taken using a digital camera.

## 2.2 CATCHMENT WALKOVER RISK ASSESSMENT

During the development of the draft sub-basin management plans throughout 2008 a complete desk study was conducted of all relevant biological, water quality and pressure source data within the Munster Blackwater catchment. Best use was made of all available datasets such as the pressure source data collated by the River Basin District Projects for the Article V Characterisation and Programme of Measures Studies. This work Munster Blackwater the NS 2 project team to assess the catchment through the combined availability of aerial imagery and digitised pressure information. Where gaps in this data existed together with areas that required ground truthing such as physical barriers to migration, catchment walkover risk assessments were focussed throughout the 2009 field survey season.

The catchment walkover risk assessment sheet (See Appendix 3) covers eight main categories or pressures which are subsequently sub-divided into the various sources. Each source is ticked if present and an overall risk assessment for each pressure assigned from High to Medium to Low over the survey length or point. All eight pressures are combined to give an overall risk assessment to the catchment based on the “one out all out principle”.

## 3.0 RESULTS

Figure 1 indicates where the Munster Blackwater morphology RHAT assessments were carried out throughout the catchment.

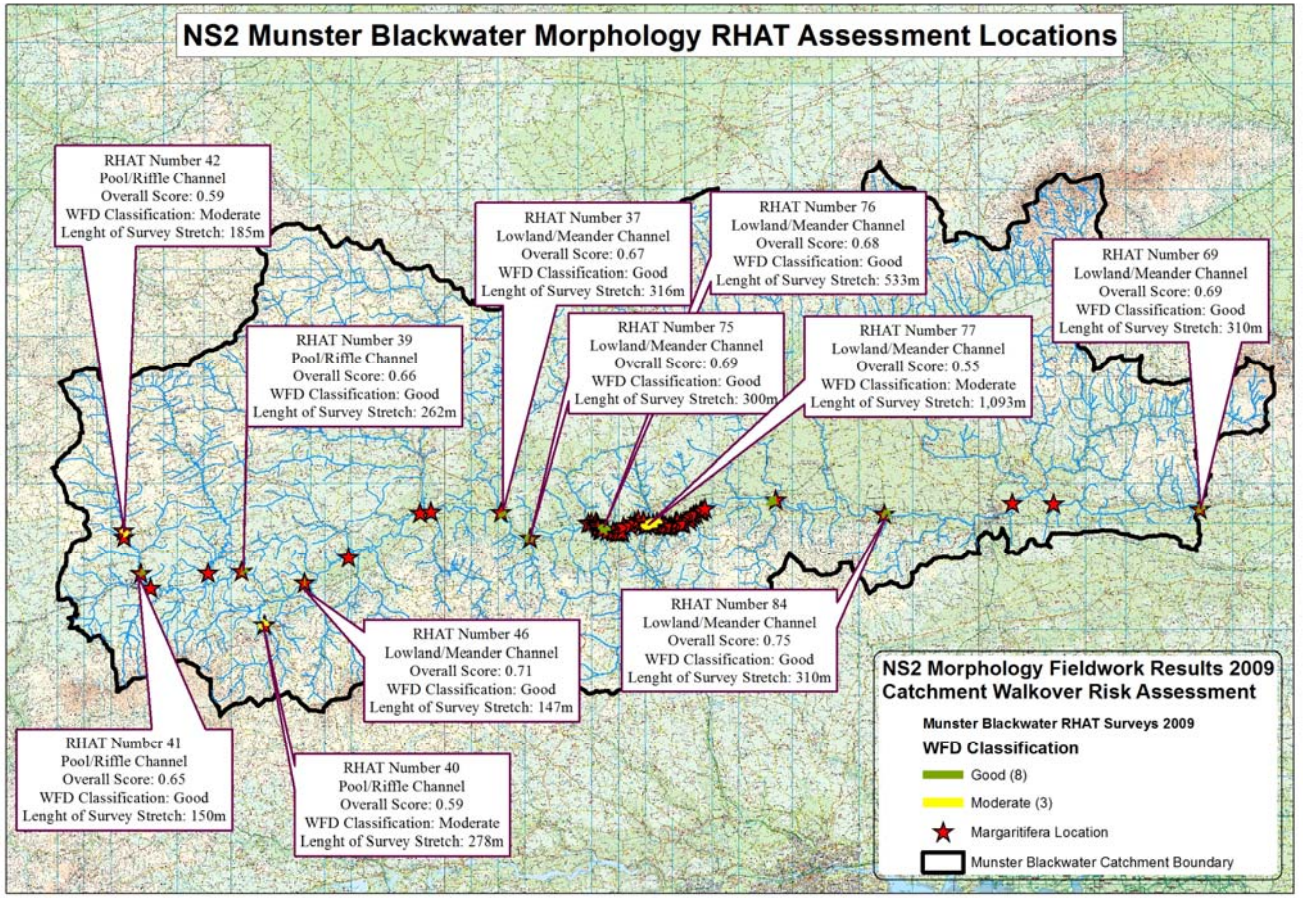



**Figure 1 Morphology RHAT Assessment Locations**

(The RHAT numbering system corresponds to the site code which may mean they are not sequential where a RHAT was not carried out at a particular site)

### 3.1 RHAT Survey Results

Eleven RHAT surveys were carried out throughout the Munster Blackwater catchment. The results of these surveys can be found in the electronic appendix and are also shown in Figure 1 above. Eight were deemed to be at good status. The RHAT surveys were carried out in the vicinity of the pearl mussel populations. The "Good" status sites were found throughout the catchment from Ballyduff to Ballydesmond. The three moderate sites were located in Mallow, Millstreet and Knocknagree to the west of the catchment. Going from West to east across the catchment RHAT number 42 which was surveyed at Farankeal bridge scored 0.59 and was classified as being at moderate status. This stretch contained high banks on both sides downstream of the bridge. Erosion and bare banks with a lack of buffer zone was present. On meeting the landowner he indicated that he is in REPS and has undertaken works in line with the REPS guidelines. New fencing has been erected as a result the conditions downstream may improve in the future as an adequate buffer zone has also been left. High levels of silt were recorded in the channel with the underneath of one bridge arch containing a mound of silt.

RHAT number 41 at Novona bridge scored 0.65 and was classified as "Good" status. The river was in high flow on the day of surveying and was very silty and peat stained. A lot of cattle poaching has and is occurring along this river stretch which has lead to slumping of the river banks and subsequently an increase in silt.

Moving upstream RHAT number 39 at Charles Bridge on the main river Blackwater was also classified as being at "Good" status. The channel vegetation attribute scored low over this stretch as the macrophyte growth was more than would be expected for a river of this typology. The substrate condition was not visible due to the high flows but the excessive *Ranunculus* growth along the survey stretch would indicate a nutrient and/or siltation issue. A v-notch weir and a hydrometric gauging station were also recorded along this stretch. The high banks which were recorded appear to have undergone some disturbance and therefore the bank vegetation was downgraded together with the floodplain connectivity.

RHAT number 40 scored 0.59 and was classified as moderate. This survey was carried out on the Finnow River just outside Millstreet over a 278m stretch. Cattle access and poaching were significant pressures along this stretch. Peat staining, urbanisation associated with Millstreet and vegetated islands were all noted along this stretch and

impacting on the channel. Extensive lengths of the channel contained excessive macrophyte and in particular *Ranunculus* growth. As a result the channel vegetation attribute was downgraded and only scored one out of four. The substrate condition, bank structure, bank vegetation, riparian landcover and floodplain connectivity all scored quite low also due to the impact from the pressures listed above.

Representative photographs from reach:

| | |
|---|---|
| **RHAT 42 Photo 4**<br>  | **RHAT 42 Photo 9**<br>  |
| **RHAT 41 Photo 5**<br>  | **RHAT 41 Photo 10**<br>  |

| | |
|---|---|
| **RHAT 39 Photo 5** | **RHAT 39 Photo 9** |
|  |  |
| **RHAT 40 Photo 6** | **RHAT 40 Photo 10** |
|  |  |

RHAT Number 46 was carried out at Keale bridge and scored 0.71 and was classified as being at "Good" Status. The channel was very heavily stained and carrying suspended solids downstream which were also seen farther upstream in Owentaraglin. It is a lowland meandering channel with all attributes scoring three out of four except the substrate condition which scored two out of four. Although the substrate was not visible at the time of survey, the level of suspended solids and macrophyte growth would indicate its poor condition. A ford or entrance point was noted just upstream of the road bridge. RHAT Number 37 was carried at Roskeen bridge, this is a lowland meandering channel which has been altered in the past. (See RHAT 37 Photo 6) The presence of *Himalayan Balsam* along most of the survey stretch is a clear indication of disturbance and alteration. The landuse along this stretch is quite intensive, with large arable fields downstream of the bridge and improved grassland with cattle grazing upstream of the bridge. The river was in spate on the day in which the survey took place overall this stretch was classified as being at "good" status.

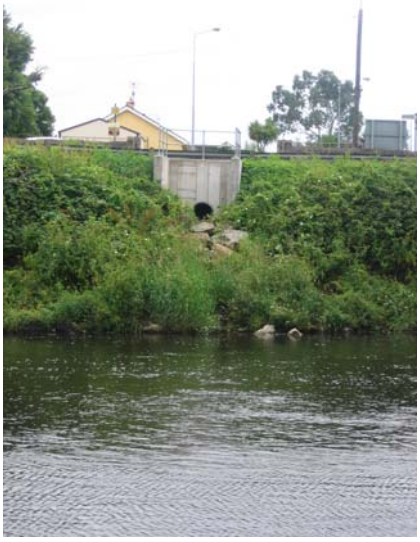
| | |
|---|---|
| **RHAT 46 Photo 1** | **RHAT 46 Photo 7** |
|  |  |
| **RHAT 37 Photo 6** | **RHAT 37 Photo 4** |
|  |  |

RHAT numbers 75, 76 and 77 were all carried out in Lombardstown, Clyda and Mallow respectively. At Lombardstown again *Himalayan Balsam* and *Japanesse Knotweed* were recorded indicating disturbance in the past. The survey commenced on the Blackwater main channel and then continued on the Duvglasha tributary. The substrate was not visible along most of the Munster Blackwater stretch however it was heavily peat stained. One small ford was recorded on the Duvglasha tributary. This stretch scored 0.69 and was classified as being at "Good" status. The second RHAT survey along this stretch was carried out at Longfields Bridge again along the Blackwater Main channel. This stretch is a lowland meandering channel and where the substrate was visible silt and filamentous green algae was excessive. Both the bank structure and the bank vegetation scored 2.5 with the right bank scoring lower than the left bank for both attributes. This was due to the presence of some erosion and exposed tree roots recorded along the survey stretch.

| | |
|---|---|
| **RHAT 75 Photo 1** | **RHAT 75 Photo 6** |
|  |  |
| **RHAT 76 Photo 3** | **RHAT 76 Photo 7** |
|  |  |

The third RHAT survey within this region was in Mallow itself. The survey commenced in Mallow Town at Mallow Bridge and continued upstream for over a kilometre. This stretch has been subject to OPW Drainage works which were been under taken at the time the survey took place. The stretch within the vicinity of Mallow Town has been newly sectioned and widened and an embankment put in place. The channel form and flow types only scored 1 out of four as a result. The tributary entering from the town appears to have very poor water quality. The substrate condition, bank structure & stability, bank vegetation and riparian landcover all scored 2 out of four as along the entire stretch outfalls, slumping, removal of bankside vegetation and reinforced toe line were recorded. A uniform bank vegetation of *Himalayan Balsam* was recorded at the lower end of the survey stretch past the motorway and railway line. This was associated with an intensely farmed arable field indicating disturbance and removal of the bank side vegetation. The floodplain connectivity attribute scored the lowest of all the

attributes – 1.5. This is largely due to the confinement of the channel and 4m high banks in the vicinity of Mallow.

| | |
|---|---|
| **RHAT 77 Photo 3**  | **RHAT 77 Photo 19**  |
| **RHAT 77 Photo 21**  | **RHAT 84 Photo 4**  |

RHAT number 84 commenced on a tributary of the Main Blackwater at Ballyhooly Bridge, this survey continued to the confluence and along the Main Blackwater River. Slurry spreading on improved grassland together with cattle grazing was noted along the banks of the river nearest to Ballyhooley bridge. Overall this stretch of river was classified as being at "Good" status scoring 0.75. All attributes scored three out of four. The final RHAT survey carried out within the Munster Blackwater was RHAT number 69 which was carried out at the most easterly point at Ballyduff. It is a lowland meandering channel with a pearl mussel habitat and records within the vicinity of the survey stretch. The survey stretch covered approximately 310m and overall the stretch

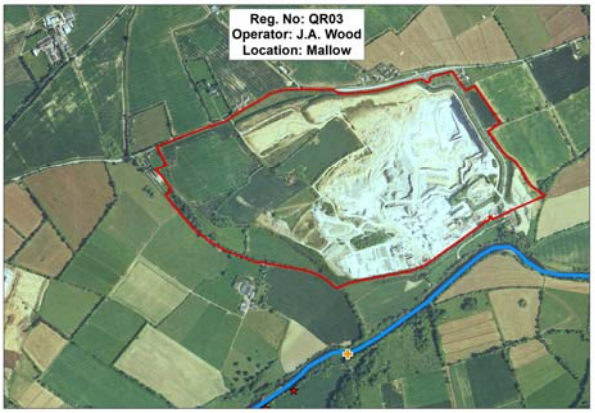
scored 0.69 and was classified as being at “Good Status”. The substrate condition was not visible along this stretch as the channel was too deep. There was evidence of channel alteration form the extensive growth of *Himalayan Balsam* along the banks. Within these areas a very small buffer zone now exists with intensive grassland and cattle grazing behind. The bank vegetation only scored 2.5 as a result of this. All other attributes except for barrier to migration scored 3 out of a possible 4. This is a very wide channel with little evidence of macrophyte growth.

| **RHAT Number 69 Photo 69b photo 3** | **RHAT Number 69 Photo 69b photo 4** |
| --- | --- |
|  |  |

Details in relation to photographs are tabulated in Appendix 2.

### 3.1 Catchment Walkover Risk Assessment Results

A total of 89 sites were surveyed throughout the Munster Blackwater Sub-basin catchment; with a risk assessment carried out at 73 of theses sites (16 stopping points). **Figure 2** outlines the stopping point locations together with the High to Low Risk Assessment from the Catchment Walkover Risk Assessments. Thirty one out of the eighty nine risk assessment sites were considered to be high risk, forty one at medium risk and only 6 at low risk. **Figure 4** outlines the percentage at high and medium risk together with the number of stopping points throughout the catchment. Nineteen quarries were either surveyed or have been recorded through the desk based assessment for the draft sub-basin management plans throughout the Munster Blackwater (See Figure 3.). All have been registered with the details provided below in **Table 1**. Only one of these large quarries is located directly beside a pearl mussel location. This is the J.A. Wood at Lackanamona in Mallow. This is an extremely large quarry which extracts rock. The remaining 18 quarries are spread throughout the catchment and are depicted in **Figure 2** below.

| | |
|---|---|
| **J.A.Woods Quary – Munster Blackwater Lacknamona Mallow**<br>  |  |

| REG_NO | DATEDIGITI | OPERATOR | LOCATION | DATE_ | A_DECISION | EXTRACTED |
|---|---|---|---|---|---|---|
| QR03 | 05/09/2006 | J.A. Wood | Lackanamona, Mallow | 06/12/2006 | Modify & Add Conditions | Rock |
| QR15 | 19/10/2006 | D. OÆMahony | Farrancotter, Buttevant | 23/03/2007 | Impose Conditions | Rock |
| QR16 | 20/03/2006 | WhelanÆs | Copsetown, Mallow | 29/03/2006 | Planning & EIS | Rock |
| QR35 | 25/10/2006 | Teddy Herlihy | Caherbarnagh, Rathmore | | Invalid Application | Sand & Gravel |
| QR42 | 26/10/2006 | Liam Fogarty | Kilphelan, Mitchelstown | | Invalid Application | Rock |
| QR46 | 02/11/2006 | S. T. & E. Kelly | Kingwilliamstown, Ballydesmond | 24/04/2006 | Planning & EIS | Rock |
| QR47 | 02/11/2006 | S. T. & E. Kelly | Foilogohig, Kiskeam | 24/04/2007 | Impose Conditions | Rock |
| QR49 | 02/11/2006 | J. Shine | Commons South, Newmarket | 24/04/2007 | Impose Conditions | Rock |
| QR57 | 06/11/2006 | Con Kelly | Knockaunavarrig, Meelin | 25/04/2007 | Impose Conditions | Rock |
| QR58 | 06/11/2006 | T. OÆFlynn | Scart, Ballyclogh, Mallow | 25/04/2007 | Impose Conditions | Rock |
| QR66 | 08/11/2006 | Roadstone Provinces Ltd | Ballybeg West, Buttevant | 26/04/2006 | Planning & EIS | Rock |
| QR66 | 08/11/2006 | Roadstone Provinces Ltd | Ballybeg West, Buttevant | 26/04/2006 | Planning & EIS | Rock |
| QR67 | 08/11/2006 | Donal Moynihan | Lackdotia, Millstreet | | Invalid Application | Sand & Gravel |
| QR72 | 08/11/2006 | Eurostone Ltd | Subulter, Kanturk | 26/04/2007 | Modify & Add Conditions | Rock |
| QR73 | 08/11/2006 | Eurostone Ltd | Carrigcleena, Bweeng | 26/04/2007 | Modify & Add Conditions | Rock |
| QR80 | 09/11/2006 | James OÆConnor | Knockeragh, Tullylease | | Invalid Application | Sand & Gravel |
| QR80 | 09/11/2006 | James OÆConnor | Knockeragh, Tullylease | | Invalid Application | Sand & Gravel |
| QR80 | 09/11/2006 | James OÆConnor | Knockeragh, Tullylease | | Invalid Application | Sand & Gravel |
| QR86 | 09/11/2006 | Tony OÆBrien | Ballynadrideen, Ballyhea | | Invalid Application | Sand & Gravel |

**Table 1 Details in relation to registered quarries within the Munster Blackwater Sub-Basin**

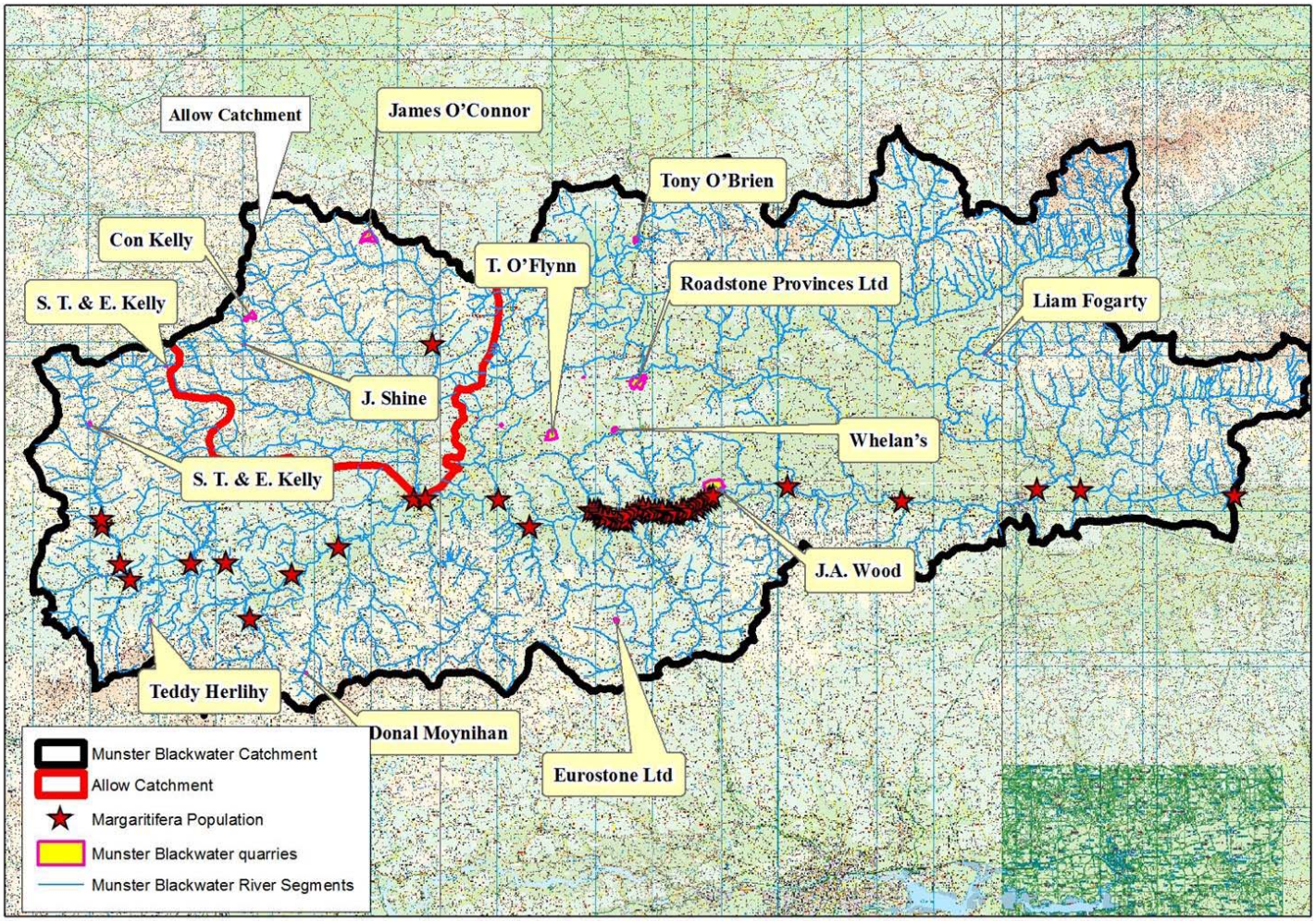



**Figure 2 Location of 19 quarries throughout the Munster Blackwater**

Within the Munster Blackwater and excluding the Allow Sub-Basin six significant Fords were recorded at the following sites:

- Stopping Point 5
- Site 42 Farnankeel Bridge
- Site 45 Owentaraglin
- Site 58 Funshion River
- Site 68 Araglin
- Site 75 Munster Blackwater
- Site 84 Ballyhooley

**Stopping point 5**

**Site 42 Farnankeel bridge**

**Site 45 Owentaraglin**

**Site 58 Funshion River**

**Site 68 Araglin**

**Site 75 Munster Blackwater**

**Site 84 Ballyhooley**

The Current Riparian Zone category of the Catchment Walkover Risk Assessment slightly varies from the seven other categories or pressures. The Current Riparian Zone is not a pressure in itself; however the aspects listed in this category are the interceptors to the pressure and convey the extent or lack of buffer provided by the riparian zone. A high risk riparian zone indicates that the pressures acting on the river are more likely to have significant impact. For example the lack of fencing along a river stretch can lead to excessive trampling and/or poaching which in turn may lead to siltation within a pearl mussel habitat. The various categories and pressures listed in the Catchment Walkover Risk Assessment sheet were designed to assist the project in focussing the measures which will be needed to combat the pressure along its pathway, rather than removing a source which may not always be possible such as intensive agriculture. Recording the Riparian Zone in terms of its current performance as a buffer is important in this regard.

Current Riparian Zone has ten aspects as follows:

- Fencing
- Buffer
- Tree line at bank
- Tree line buffer
- Plantation with no buffer
- Urbanisation
- Flood Protection
- Marshy Land
- Landuse at bank
- Other Sources

Where one or any of these aspects is found to be the cause of significant impact to the riparian zone, or the channel along the stretch then this category may be assigned a high risk score. **Figure 4** outlines the percentage number of sites at High, Medium or Low risk. Locations where pressures were evident in the field which were not highlighted through the desk based assessment were also noted as stopping points. These points

were not selected prior to fieldwork, they were opportunistic as the catchment drive through was taking place.

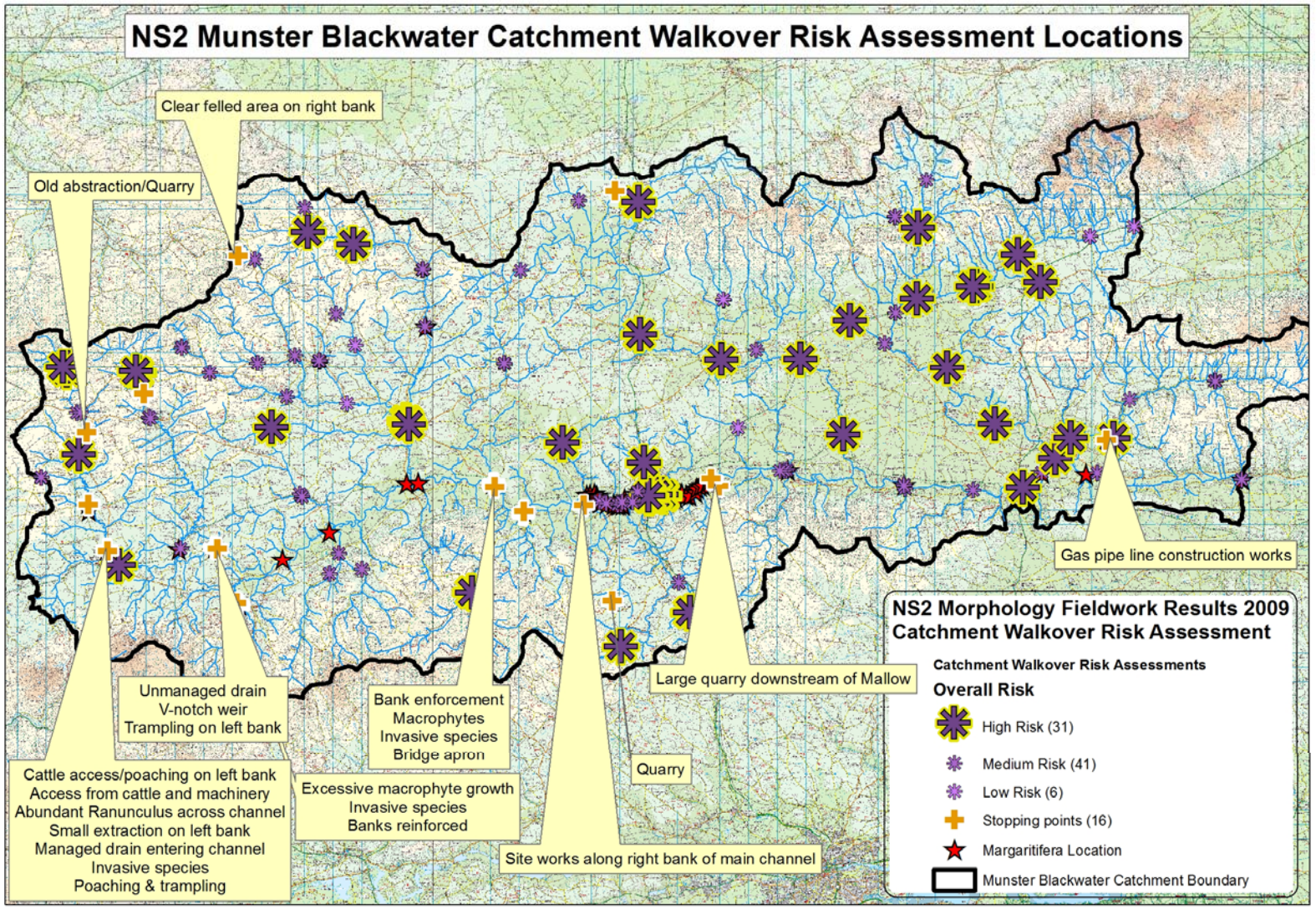
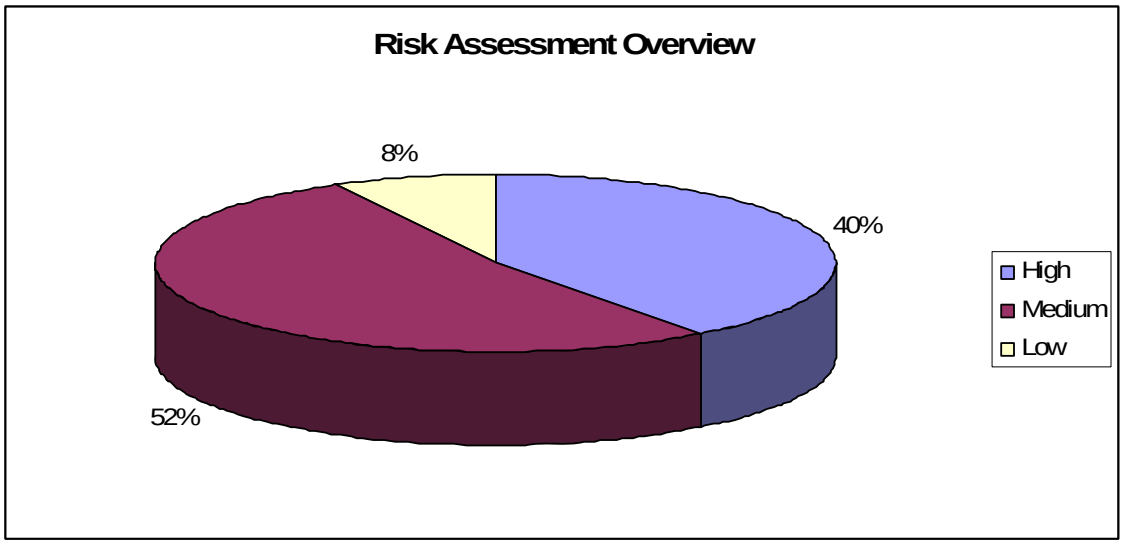


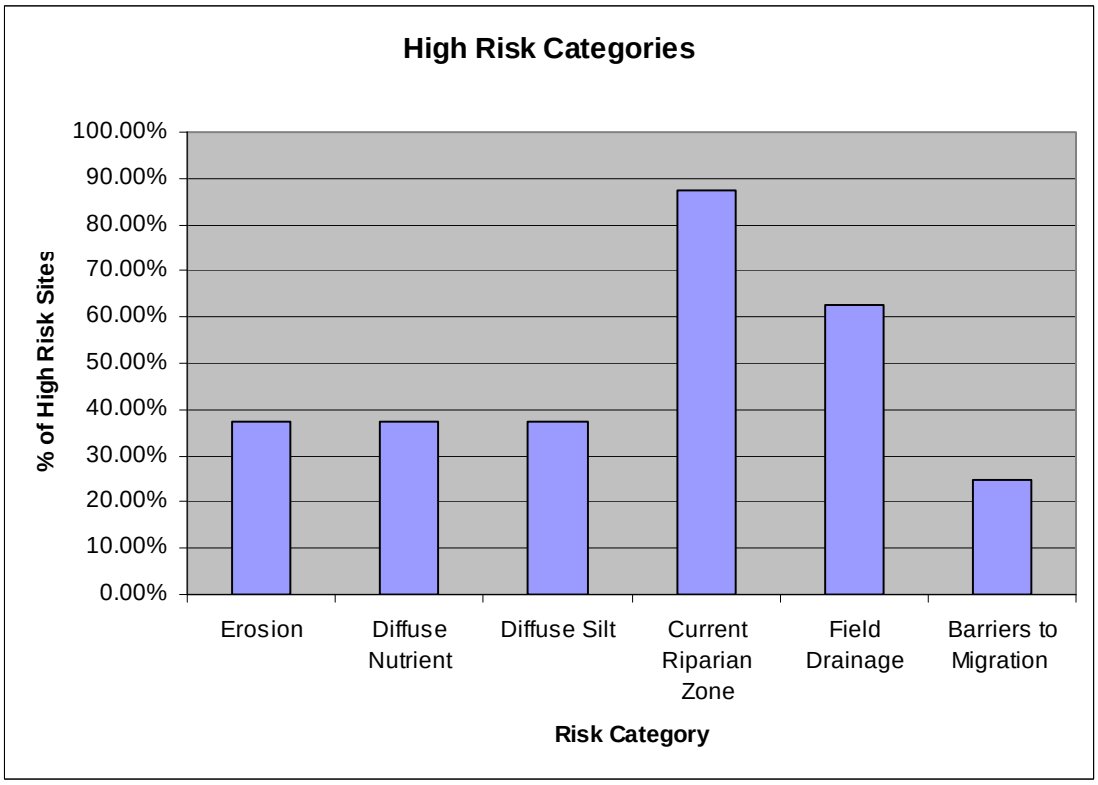

**Figure 3 Location of Stopping points and Catchment Walkover Risk Assessment**

**Figure 4 Risk Assessment Overview**




The break-down of pressure categories identified as high risk are outlined in Figure 5

**Figure 5 Breakdown of High Risk Categories**

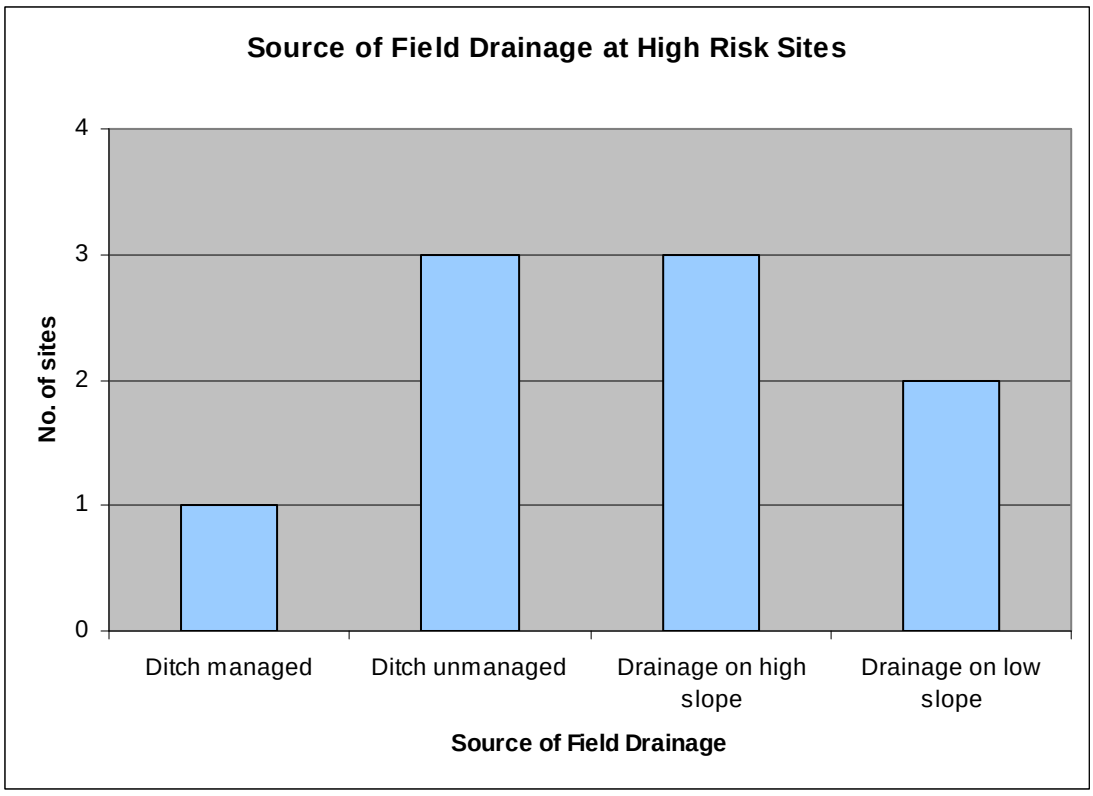


The current riparian zone category is a considerable pressure within this catchment, however this pressure generally relates to how a poor riparian zone can intensify other pressures e.g. animal trampling caused by a lack of fencing or increased diffuse nutrient as a result of an ineffective or poor buffer zone.

As a result quantitative statistics do not adequately convey the pressures that arise through a high risk riparian zone, the main issues identified were:

- A complete lack of fencing or insufficient fencing on agricultural land – within this catchment this has resulted in increased erosion from extensive animal trampling and fords, increased nutrient enrichment from animals being within and near channel, increased silt within channel as trampling causes patches of bare sediment which is washed into the river channel;.
- A lack of adequate buffer or tree line in areas where the channel is within close proximity to forestry or intensive agriculture, this results in an increase in diffuse nutrient as nutrients are washed directly into the channel from agricultural land or forestry, increased levels of silt entering river as there is no buffer during forestry felling or crop harvesting.
- The most common sources of field drainage were unmanaged ditches and drainage on a high slop each creating a high risk pressure at three sites.

**Figure 6 source of field drainage pressure at high risk sites**



## 4.0 CONCLUSIONS

The Munster Blackwater sub-basin catchment appears to be in an over all poor condition from a morphological point of view largely due to the nature of the current riparian zone with high risk sites identified throughout the catchment including the upper reaches of the rivers.

The pressures are many and varied with intensive agriculture or intensively managed lands posing the most significant impacts to the freshwater pearl mussel habitat. Cattle were recorded both within the channel and impacting on the banks where bank side erosion was recorded. Large amounts of matter containing faeces and soil were found in the channel as a result. Intensive arable land was also found to be causing a significant impact where unstable banks have resulted where little to no riparian vegetation was remaining between the arable crop and the river bank.

The significant number of fords, quarries and crossing points are also cause for concern and a major source of silt to the channel and the freshwater pearl mussel habitat.

# APPENDIX A

# RHAT Field Sheet

**Field Health and Safety sheet**

River Name_____ Site Code_____ Date_____

1 = Low risk 5 = High risk

Please circle applicable number

| | | | | | |
|---|---|---|---|---|---|
| PARKING | 1 | 2 | 3 | 4 | 5 |
| FENCES/BARRIERS | 1 | 2 | 3 | 4 | 5 |
| GROUND STABILITY | 1 | 2 | 3 | 4 | 5 |
| DENSE VEGETATION | 1 | 2 | 3 | 4 | 5 |
| BANK STEEPNESS OR STABILITY | 1 | 2 | 3 | 4 | 5 |
| RISK FROM ANIMALS | 1 | 2 | 3 | 4 | 5 |
| PHONE COVERAGE | 1 | 2 | 3 | 4 | 5 |

Previous RHS/RAT/RHAT surveys - year and code _____

Details of access _____

# RHAT (VERSION 2)

TRIBUTARY / MAIN CHANNEL*

**Site Identification**

River Name _____ Site Code _____

Nearest WFD site FF10 _____

Water Body ID _____ Start U / S or D / S*

First IGR _____ Last IGR _____

Bank surveyed from L / R / Both / in-Channel*

| Desk-study notes | | Field Notes |
|---|---|---|
| ACTION TO TAKE PRIOR TO FIELDWORK<br><br>General overall shape of river<br>Check weirs, impoundments etc. on catchment | | River type<br><br>Date |
| Floodplain connectivity and land use<br><br>Expected river type<br><br>Rain last week<br><br>Estimated river width<br><br>Estimated survey length<br><br>Riparian land cover(s)<br><br>River Agency designated?<br><br>Other comments including geology - limestone / siliceous / peat* | | Time<br><br>Surveyors<br><br>Weather conditions now<br><br>Estimated river width (m) (average 3 readings)<br><br>Estimated survey length (m) (40 X wetted width)<br><br>Estimated river depth (m)<br><br>Channel characteristics (e.g. different stream types on the reach) |
| RESULTS | | Pressures |
| Hydromorph score<br><br>WFD class | | *Circle as appropriate |

**Photograph details include IGR or approximate location**

_____

_____

_____

_____

*N.B. The survey length should be 40x the wetted width with a minimal stretch of 160m but not exceeding 1km.*

## NS RHAT

Anthropogenic Impacts

River Name _____ Site Code _____ Date _____

| Feature | | Tick if present, record as E if > 30% | | |
|---|---|---|---|---|
| Resectioning | | None ☐ | Left bank ☐ | Right bank ☐ |
| Reinforcement | | None ☐ | Left bank ☐ | Right bank ☐ |
| Embankments | NO* | LB ☐ | RB ☐ | Set back LB ☐ SB RB ☐ |
| Culverts** | | Y / N / Unknown* | | |
| Over deepening | | Y / N / Unknown* | | |
| Wver widened | | Y / N / Unknown* | | |
| Narrowing | | Y / N / Unknown* | | |
| Fords** | | Y / N* | | |
| | | Major | Intermediate | Minor |
| Bridges** | NO* | | | |
| Weirs** | NO* | | | |
| Fish Pass** | NO* | | | |

**Physical features or resource use if applicable.** *

Deflectors / Jetties / Arterial drainage / Side channels / Mid channel bar / Field Drains / Mill Race

Navigation / Fishing / Recreation / Forestry/ Urban / Industry / HEP

Trashline present (height __ m) above water / Buffer zone (LBm / RBm back from water edge)

**Other observations - Invasives - Trees - Birds - Pollution indicators - Invertebrates***

Rhododendron / Himalayan Balsam / Japanese Knotweed / Giant hogweed / Snowberry / Cherry-Laurel/ Gunnera

Sycamore / Beech / Conifers / Oak / Ash / Alder / Willow / Birch / Hazel / Hawthorn / Blackthorn / Holly

Heron / Sand martin / Grey wagtail / Dippers / Kingfishers /

Sewage fungus / Diatomaceous algae / Oil / Cladophora / Vaucheria / Dumping / Silt on Substrate

Other comments:

_____

** Circle as appropriate E - extensive. ** Tally as appropriate. LB - left bank / RB - right bank*

## RHAT RIVER HYDROMORPHOLOGY ASSESSMENT TECHNIQUE

Field Assessment of Morphological Condition

River Name _____ Site Code _____ Date _____

If river in spate ignore 3 and 4 but deduct individual scores from overall if either feature not visible. Greyed boxes may be scored but note why in Comments/Notes.

| | Bedrock | Cascade / Step-pool | Pool-riffle-glide | Lowland Meandering |
|---|---|---|---|---|
| 1. Channel form and flow types | 4 | 4 | 4 | 4 |
| 2. Channel vegetation | 4 | 4 | 4 | 4 |
| 3. Substrate condition | 4 | 4 | 4 | 4 |
| 4. Barriers to continuity | 4 | 4 | 4 | 4 |
| 5. Bank structure & stability L+R | 4 | 4 | 4 | 4 |
| 6. Bank vegetation L+R | 4 | 4 | 4 | 4 |
| 7. Riparian land cover L+R | 4 | 4 | 4 | 4 |
| 8. Floodplain connectivity L+R | 4 | 4 | 4 | 4 |
| TOTAL | 32 | 32 | 32 | 32 |
| Hydromorph Score * | | | | |
| WFD class ** | | | | |

* Hydromorph score - Assessment score = Maximum Possible score

** WFD Class
> 0.8 = high
>0.6 – 0.8 = good
>0.4 – 0.6 = moderate
>0.2 - 0.4 = poor
< 0.2 = bad.

## SHEET 5

### NOTES

# APPENDIX 2

# PHOTOGRAPHS

Photographs of site locations and catchment pressures on the Munster Blackwater River and tributaries 2009. All field work photographs can be found in the accompanying electronic appendix.

Overall Risk * uses the “one out all out” principle

| Site No. | Catchment Name | Location | X | Y | Photo No. | Bank Erosion | Diffuse Nutrient | Diffuse Silt | Field Drainage | Outfalls | Abstraction | Barriers to Migration | Current Riparian Zone | Overall Risk | Pressure |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Munster Blackwater_ Allow | Kingwillianstown Bridge | 115172 | 103771 | 1 | Low | Low | Low | Medium | Low | Low | Medium | Medium | Medium | Looking upstream from bridge, H.Balsam on left bank |
| 1 | Munster Blackwater_ Allow | Kingwillianstown Bridge | 115172 | 103771 | 2 | Low | Low | Low | Medium | Low | Low | Medium | Medium | Medium | Looking downstream from bridge |
| 1 | Munster Blackwater_ Allow | Kingwillianstown Bridge | 115172 | 103771 | 3 | Low | Low | Low | Medium | Low | Low | Medium | Medium | Medium | Looking downstream on left bank, removal of large tree |
| 1 | Munster Blackwater_ Allow | Kingwillianstown Bridge | 115172 | 103771 | 4 | Low | Low | Low | Medium | Low | Low | Medium | Medium | Medium | Left bank looking upstream from bridge housing development |
| 1 | Munster Blackwater_ Allow | Kingwillianstown Bridge | 115172 | 103771 | 5 | Low | Low | Low | Medium | Low | Low | Medium | Medium | Medium | Left bank fencing from outside development area |
| 1 | Munster Blackwater_ Allow | Kingwillianstown Bridge | 115172 | 103771 | 6 | Low | Low | Low | Medium | Low | Low | Medium | Medium | Medium | Stone weir possible placed by fisheries approx. 20m downstream of bridge |
| 1 | Munster Blackwater_ Allow | Kingwillianstown Bridge | 115456 | 103793 | 7 | Low | Low | Low | Medium | Low | Low | Medium | Medium | Medium | WWTP in village possible on main channel |
| 2 | Munster Blackwater_ Allow | Headwaters of Munster Blackwater | 114484 | 106680 | 1 | High | High | High | High | Low | Low | Medium | Medium | High | Looking upstream from road bridge |
| 2 | Munster Blackwater_ Allow | Headwaters of Munster Blackwater | 114484 | 106680 | 2 | High | High | High | High | Low | Low | Medium | Medium | High | Looking downstream from road bridge |
| 2 | Munster Blackwater_ Allow | Headwaters of Munster Blackwater | 114496 | 106682 | 3 | High | High | High | High | Low | Low | Medium | Medium | High | Ford on left bank upstream of bridge |
| 2 | Munster Blackwater_ Allow | Headwaters of Munster Blackwater | 114484 | 106680 | 4 | High | High | High | High | Low | Low | Medium | Medium | High | Weir/Apron under bridge photo looking downstream of bridge |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | Munster Blackwater_ Allow | Headwaters of Munster Blackwater | 114484 | 106680 | 5 | High | High | High | High | Low | Low | Medium | Medium | High | Weir/Bridge Apron |
| 2 | Munster Blackwater_ Allow | Headwaters of Munster Blackwater | 114484 | 106680 | 6 | High | High | High | High | Low | Low | Medium | Medium | High | Downstream from bridge on right bank unmanaged drain feeding into main channel |
| 2 | Munster Blackwater_ Allow | Headwaters of Munster Blackwater | 114484 | 106680 | 7 | High | High | High | High | Low | Low | Medium | Medium | High | Fencing on right bank downs |
| 2 | Munster Blackwater_ Allow | Headwaters of Munster Blackwater | 114484 | 106680 | 8 | High | High | High | High | Low | Low | Medium | Medium | High | Peat stained colour of river water near ford |
| 2 | Munster Blackwater_ Allow | Headwaters of Munster Blackwater | 114490 | 106685 | 9 | High | High | High | High | Low | Low | Medium | Medium | High | Bridge structure |
| 2 | Munster Blackwater_ Allow | Headwaters of Munster Blackwater | 114484 | 106680 | 10 | High | High | High | High | Low | Low | Medium | Medium | High | Ford exist and entry point |
| 2 | Munster Blackwater_ Allow | Headwaters of Munster Blackwater | 114484 | 106680 | 11 | High | High | High | High | Low | Low | Medium | Medium | High | Forestry coupe upstream |
| 2 | Munster Blackwater_ Allow | Headwaters of Munster Blackwater | 114477 | 106672 | 12 | High | High | High | High | Low | Low | Medium | Medium | High | Poaching on trib flowing into river on right bank downstream of bridge |
| 2 | Munster Blackwater_ Allow | Headwaters of Munster Blackwater | 114500 | 106982 | 13 | High | High | High | High | Low | Low | Medium | Medium | High | Works underway to improve grey road which must be for felling which is due to take place |
| 2 | Munster Blackwater_ Allow | Headwaters of Munster Blackwater | 114194 | 106967 | 14 | High | High | High | High | Low | Low | Medium | Medium | High | Active peat cutting, spread using hopper. |
| 2 | Munster Blackwater_ Allow | Headwaters of Munster Blackwater | 114194 | 106967 | 15 | High | High | High | High | Low | Low | Medium | Medium | High | Active peat cutting, spread using hopper. |
| 2 | Munster Blackwater_ Allow | Headwaters of Munster Blackwater | 114194 | 106967 | 16 | High | High | High | High | Low | Low | Medium | Medium | High | Active peat cutting, spread using hopper. |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | Munster Blackwater_ Allow | Newquarter Bridge - L | 115319 | 100892 | 1 | Low | High | High | Medium | Medium | Medium | Medium | High | High | Looking upstream with Munster Joinery in the background |
| 3 | Munster Blackwater_ Allow | Newquarter Bridge - L | 115319 | 100892 | 2 | Low | High | High | Medium | Medium | Medium | Medium | High | High | Main channel flowing towards crossroads |
| 3 | Munster Blackwater_ Allow | Newquarter Bridge - L | 115319 | 100892 | 3 | Low | High | High | Medium | Medium | Medium | Medium | High | High | Looking upstream from road bridge |
| 3 | Munster Blackwater_ Allow | Newquarter Bridge - L | 115319 | 100892 | 4 | Low | High | High | Medium | Medium | Medium | Medium | High | High | Looking downstream from road bridge |
| 3 | Munster Blackwater_ Allow | Newquarter Bridge - L | 115319 | 100892 | 5 | Low | High | High | Medium | Medium | Medium | Medium | High | High | Bridge apron downstream end of bridge |
| 3 | Munster Blackwater_ Allow | Newquarter Bridge - L | 115319 | 100892 | 6 | Low | High | High | Medium | Medium | Medium | Medium | High | High | Scouring on left bank downstream |
| 3 | Munster Blackwater_ Allow | Newquarter Bridge - L | 115319 | 100892 | 7 | Low | High | High | Medium | Medium | Medium | Medium | High | High | Scouring on right bank downstream |
| 3 | Munster Blackwater_ Allow | Newquarter Bridge - L | 115319 | 100892 | 8 | Low | High | High | Medium | Medium | Medium | Medium | High | High | Munster Joinery in background to river |
| 3 | Munster Blackwater_ Allow | Newquarter Bridge - L | 115319 | 100892 | 9 | Low | High | High | Medium | Medium | Medium | Medium | High | High | Track made down to river bank |
| 3 | Munster Blackwater_ Allow | Newquarter Bridge - L | 115319 | 100892 | 10 | Low | High | High | Medium | Medium | Medium | Medium | High | High | Laid track on left bank downstream from bridge |
| 3 | Munster Blackwater_ Allow | Newquarter Bridge - L | 115319 | 100892 | 11 | Low | High | High | Medium | Medium | Medium | Medium | High | High | Possible abstraction point, water in pipe,road runs to right bankof river |
| 4 | Munster Blackwater_ Allow | Owentaraglin River- K | 120258 | 103414 | 1 | High | Medium | Medium | Medium | Medium | Low | Medium | Medium | Medium | Altered channel looking upstream from bridge |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4 | Munster Blackwater_ Allow | Owentaraglin River- K | 120258 | 103414 | 2 | High | Medium | Medium | Medium | Medium | Low | Medium | Medium | Medium | Looking downstream from bridge - some deposition |
| 4 | Munster Blackwater_ Allow | Owentaraglin River- K | 120258 | 103414 | 3 | High | Medium | Medium | Medium | Medium | Low | Medium | Medium | Medium | Deposition on right bank downstream from bridge |
| 4 | Munster Blackwater_ Allow | Owentaraglin River- K | 120258 | 103414 | 4 | High | Medium | Medium | Medium | Medium | Low | Medium | Medium | Medium | Deposition on left bank upstream from bridge |
| 4 | Munster Blackwater_ Allow | Owentaraglin River- K | 120256 | 103438 | 5 | High | Medium | Medium | Medium | Medium | Low | Medium | Medium | Medium | Storm drain on left bank upstream from bridge |
| 4 | Munster Blackwater_ Allow | Owentaraglin River- K | 120258 | 103414 | 6 | High | Medium | Medium | Medium | Medium | Low | Medium | Medium | Medium | Bridge Structure |
| 4 | Munster Blackwater_ Allow | Owentaraglin River- K | 120234 | 103456 | 7 | High | Medium | Medium | Medium | Medium | Low | Medium | Medium | Medium | Bank reinforcement on right bank upstream of bridge |
| 4 | Munster Blackwater_ Allow | Owentaraglin River- K | 120197 | 103471 | 8 | High | Medium | Medium | Medium | Medium | Low | Medium | Medium | Medium | Small gravel extraction on right bank upstream of bridge |
| 4 | Munster Blackwater_ Allow | Owentaraglin River- K | 120197 | 103471 | 9 | High | Medium | Medium | Medium | Medium | Low | Medium | Medium | Medium | Road on right bank upstream of bridge leading to excavation |
| 4 | Munster Blackwater_ Allow | Owentaraglin River- K | 120334 | 103369 | 10 | High | Medium | Medium | Medium | Medium | Low | Medium | Medium | Medium | Excessive use of Ford for vehicular access |
| 5 | Munster Blackwater_ Allow | Owentaraglin River- C | 119308 | 106681 | 1 | Medium | Medium | Medium | High | Medium | Low | Medium | Medium | High | Perforated drain pipes |
| 5 | Munster Blackwater_ Allow | Owentaraglin River- C | 119308 | 106681 | 2 | Medium | Medium | Medium | High | Medium | Low | Medium | Medium | High | Perforated land drain with silt entering channel |
| 5 | Munster Blackwater_ Allow | Owentaraglin River- C | 119431 | 106606 | 3 | Medium | Medium | Medium | High | Medium | Low | Medium | Medium | High | Looking upstream from bridge, land drain entering channel |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5 | Munster Blackwater_ Allow | Owentaraglin River- C | 119431 | 106606 | 4 | Medium | Medium | Medium | High | Medium | Low | Medium | Medium | High | Looking downstream from bridge |
| 5 | Munster Blackwater_ Allow | Owentaraglin River- C | 119431 | 106606 | 5 | Medium | Medium | Medium | High | Medium | Low | Medium | Medium | High | Perforated land drain entering on left bank upstream of bridge |
| 5 | Munster Blackwater_ Allow | Owentaraglin River- C | 119308 | 106681 | 6 | Medium | Medium | Medium | High | Medium | Low | Medium | Medium | High | Reinformced left bank upstream of bridge |
| 5 | Munster Blackwater_ Allow | Owentaraglin River- C | 119308 | 106681 | 7 | Medium | Medium | Medium | High | Medium | Low | Medium | Medium | High | Ford access upstream of bridge - vehicular |
| 6 | Munster Blackwater_ Allow | Owenkeal River | 122500 | 108340 | 1 | Low | Low | Low | Medium | Low | Low | Low | Medium | Medium | Looking upstream from bridge |
| 6 | Munster Blackwater_ Allow | Owenkeal River | 122505 | 108341 | 2 | Low | Low | Low | Medium | Low | Low | Low | Medium | Medium | Looking downstream from bridge |
| 6 | Munster Blackwater_ Allow | Owenkeal River | 122505 | 108341 | 3 | Low | Low | Low | Medium | Low | Low | Low | Medium | Medium | Pipe crossing river channel at bridge |
| 6 | Munster Blackwater_ Allow | Owenkeal River | 122499 | 108391 | 4 | Low | Low | Low | Medium | Low | Low | Low | Medium | Medium | Eroding bank |
| 6 | Munster Blackwater_ Allow | Owenkeal River | 122505 | 108342 | 5 | Low | Low | Low | Medium | Low | Low | Low | Medium | Medium | New decideous forest on edge of conifer plantation |
| 7 | Munster Blackwater_ Allow | Owenkeal River - Clas | 124447 | 106567 | 1 | Low | Medium | Low | Medium | Low | Low | Low | Medium | Medium | Looking upstream of bridge, silty/sandy substrate |
| 7 | Munster Blackwater_ Allow | Owenkeal River - Clas | 124447 | 106567 | 2 | Low | Medium | Low | Medium | Low | Low | Low | Medium | Medium | Looking downstream of bridge |
| 7 | Munster Blackwater_ Allow | Owenkeal River - Clas | 124447 | 106567 | 3 | Low | Medium | Low | Medium | Low | Low | Low | Medium | Medium | Left bank, downstream, back yard of house facing out onto channel |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7 | Munster Blackwater_ Allow | Owenkeal River - Clas | 124447 | 106567 | 4 | Low | Medium | Low | Medium | Low | Low | Low | Medium | Medium | Small quarry/gravel extraction point 10m from bridge across road on left bank upstream |
| 7 | Munster Blackwater_ Allow | Owenkeal River - Clas | 124447 | 106567 | 5 | Low | Medium | Low | Medium | Low | Low | Low | Medium | Medium | Possible pumping house on left bank upstream |
| 7 | Munster Blackwater_ Allow | Owenkeal River - Clas | 124447 | 106567 | 6 | Low | Medium | Low | Medium | Low | Low | Low | Medium | Medium | Farm shop/co-operative on right bank upstream |
| 8 | Munster Blackwater_ Allow | Rampart Stream | 132142 | 107339 | 1 | Low | Medium | Medium | Medium | Low | Low | Medium | Medium | Medium | Culverted area upstream of road, 3 round culverts |
| 8 | Munster Blackwater_ Allow | Rampart Stream | 132142 | 107339 | 2 | Low | Medium | Medium | Medium | Low | Low | Medium | Medium | Medium | Culverted drain entering on right bank |
| 8 | Munster Blackwater_ Allow | Rampart Stream | 132142 | 107339 | 3 | Low | Medium | Medium | Medium | Low | Low | Medium | Medium | Medium | Looking upstream from left bank |
| 8 | Munster Blackwater_ Allow | Rampart Stream | 132142 | 107339 | 4 | Low | Medium | Medium | Medium | Low | Low | Medium | Medium | Medium | Drain feeding in from back of main channel |
| 8 | Munster Blackwater_ Allow | Rampart Stream | 132142 | 107339 | 5 | Low | Medium | Medium | Medium | Low | Low | Medium | Medium | Medium | Excessive Callitriche growth in main channel |
| 8 | Munster Blackwater_ Allow | Rampart Stream | 132187 | 107382 | 6 | Low | Medium | Medium | Medium | Low | Low | Medium | Medium | Medium | Artificial stone weir |
| 8 | Munster Blackwater_ Allow | Rampart Stream | 132183 | 107376 | 7 | Low | Medium | Medium | Medium | Low | Low | Medium | Medium | Medium | 2nd Artificial Stone weir |
| 8 | Munster Blackwater_ Allow | Rampart Stream | 132186 | 107400 | 8 | Low | Medium | Medium | Medium | Low | Low | Medium | Medium | Medium | 3rd Artificial stone weir |
| 8 | Munster Blackwater_ Allow | Rampart Stream | 132108 | 107425 | 9 | Low | Medium | Medium | Medium | Low | Low | Medium | Medium | Medium | Culvert & outfall at back of factory- foul smell |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8 | Munster Blackwater_ Allow | Rampart Stream | 132099 | 107442 | 10 | Low | Medium | Medium | Medium | Low | Low | Medium | Medium | Medium | Aeration tanks from fertiliser plant |
| 9 | Munster Blackwater_ Allow | Dalua River, Aldworth | 130403 | 107778 | 1 | Medium | Medium | Medium | Medium | Low | Low | Medium | Medium | Medium | Looking downstream from bridge, excessive ranunculus growth |
| 9 | Munster Blackwater_ Allow | Dalua River, Aldworth | 130403 | 107778 | 2 | Medium | Medium | Medium | Medium | Low | Low | Medium | Medium | Medium | Looking upstream from bridge excessive macrophyte growth |
| 9 | Munster Blackwater_ Allow | Dalua River, Aldworth | 130403 | 107778 | 3 | Medium | Medium | Medium | Medium | Low | Low | Medium | Medium | Medium | Reinforced toe |
| 9 | Munster Blackwater_ Allow | Dalua River, Aldworth | 130403 | 107778 | 4 | Medium | Medium | Medium | Medium | Low | Low | Medium | Medium | Medium | Trampling on bank |
| 10 | Munster Blackwater_ Allow | Glenlara River | 127789 | 107244 | 1 | Low | Medium | Medium | Medium | Low | Low | Medium | Medium | Medium | Looking upstream from bridge, some macrophyte growth |
| 10 | Munster Blackwater_ Allow | Glenlara River | 127789 | 107244 | 2 | Low | Medium | Medium | Medium | Low | Low | Medium | Medium | Medium | Forestry approx. 1 km upstream |
| 10 | Munster Blackwater_ Allow | Glenlara River | 127789 | 107244 | 3 | Low | Medium | Medium | Medium | Low | Low | Medium | Medium | Medium | View looking downstream from bridge |
| 10 | Munster Blackwater_ Allow | Glenlara River | 127789 | 107244 | 4 | Low | Medium | Medium | Medium | Low | Low | Medium | Medium | Medium | View looking downstream from bridge |
| 10 | Munster Blackwater_ Allow | Glenlara River | 127765 | 107248 | 5 | Low | Medium | Medium | Medium | Low | Low | Medium | Medium | Medium | Possible pumping station on right bank |
| 10 | Munster Blackwater_ Allow | Glenlara River | 127789 | 107244 | 6 | Low | Medium | Medium | Medium | Low | Low | Medium | Medium | Medium | Land clearance approx 150m from left bank for house |
| 11 | Munster Blackwater_ Allow | Tributary of Dalua - | 127612 | 114488 | 1 | High | Low | Medium | Medium | Low | Low | Medium | Medium | Medium | Looking upstream with some bankside trampling |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11 | Munster Blackwater_ Allow | Tributary of Dalua - | 127612 | 114488 | 2 | High | Low | Medium | Medium | Low | Low | Medium | Medium | Medium | Tracks leading into channel |
| 11 | Munster Blackwater_ Allow | Tributary of Dalua - | 127612 | 114488 | 3 | High | Low | Medium | Medium | Low | Low | Medium | Medium | Medium | Tracks right up to and into channel |
| 11 | Munster Blackwater_ Allow | Tributary of Dalua - | 127612 | 114488 | 4 | High | Low | Medium | Medium | Low | Low | Medium | Medium | Medium | View downstream |
| 11 | Munster Blackwater_ Allow | Tributary of Dalua - | 127612 | 114488 | 5 | High | Low | Medium | Medium | Low | Low | Medium | Medium | Medium | Build up of silt on left bank |
| 11 | Munster Blackwater_ Allow | Tributary of Dalua - | 127612 | 114488 | 6 | High | Low | Medium | Medium | Low | Low | Medium | Medium | Medium | Overview of felled area at stopping point 3 |
| 12 | Munster Blackwater_ Allow | Allow Headwaters | 131305 | 116423 | 1 | Low | High | Medium | Medium | Low | Low | Medium | Medium | High | View downstream from bridge |
| 12 | Munster Blackwater_ Allow | Allow Headwaters | 131305 | 116423 | 2 | Low | High | Medium | Medium | Low | Low | Medium | Medium | High | View upstream from bridge |
| 12 | Munster Blackwater_ Allow | Allow Headwaters | 131305 | 116423 | 3 | Low | High | Medium | Medium | Low | Low | Medium | Medium | High | Slurry spreading upstream |
| 12 | Munster Blackwater_ Allow | Allow Headwaters | 131305 | 116423 | 4 | Low | High | Medium | Medium | Low | Low | Medium | Medium | High | Slurry spreading upstream |
| 12 | Munster Blackwater_ Allow | Allow Headwaters | 131305 | 116423 | 5 | Low | High | Medium | Medium | Low | Low | Medium | Medium | High | Joining trib upstream |
| 13 | Munster Blackwater_ Allow | Glashwee Bridge | 131088 | 118098 | 1 | Low | Medium | Medium | Medium | Low | Low | Medium | Medium | Medium | View downstream from bridge |
| 13 | Munster Blackwater_ Allow | Glashwee Bridge | 131088 | 118098 | 2 | Low | Medium | Medium | Medium | Low | Low | Medium | Medium | Medium | Drain on left bank downstream with FGA growth |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 13 | Munster Blackwater_ Allow | Glashwee Bridge | 131088 | 118098 | 3 | Low | Medium | Medium | Medium | Low | Low | Medium | Medium | Medium | View upstream |
| 13 | Munster Blackwater_ Allow | Glashwee Bridge | 131088 | 118098 | 4 | Low | Medium | Medium | Medium | Low | Low | Medium | Medium | Medium | Trampling on left bank upstream |
| 14 | Munster Blackwater_ Allow | Kanturk | 138101 | 103237 | 1 | High | Medium | Medium | High | Low | High | High | Medium | High | View upstream from survey point |
| 14 | Munster Blackwater_ Allow | Kanturk | 138101 | 103237 | 2 | High | Medium | Medium | High | Low | High | High | Medium | High | Downstream from point |
| 14 | Munster Blackwater_ Allow | Kanturk | 138101 | 103237 | 3 | High | Medium | Medium | High | Low | High | High | Medium | High | H.Balsam on right bank |
| 14 | Munster Blackwater_ Allow | Kanturk | 138101 | 103237 | 4 | High | Medium | Medium | High | Low | High | High | Medium | High | Bridge structure |
| 14 | Munster Blackwater_ Allow | Kanturk | 138152 | 103174 | 5 | High | Medium | Medium | High | Low | High | High | Medium | High | Significant bridge apron |
| 14 | Munster Blackwater_ Allow | Kanturk | 138152 | 103174 | 6 | High | Medium | Medium | High | Low | High | High | Medium | High | Significant bridge apron |
| 14 | Munster Blackwater_ Allow | Kanturk | 138152 | 103174 | 7 | High | Medium | Medium | High | Low | High | High | Medium | High | View downstream from bridge, concrete wall on right bank |
| 14 | Munster Blackwater_ Allow | Kanturk | 138225 | 103182 | 8 | High | Medium | Medium | High | Low | High | High | Medium | High | Creamery on right bank downstream |
| 14 | Munster Blackwater_ Allow | Kanturk | 138225 | 103182 | 9 | High | Medium | Medium | High | Low | High | High | Medium | High | View upstream from second bridge |
| 14 | Munster Blackwater_ Allow | Kanturk | 138225 | 103182 | 10 | High | Medium | Medium | High | Low | High | High | Medium | High | View upstream from second bridge on right bank |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 14 | Munster Blackwater_ Allow | Kanturk | 138225 | 103182 | 11 | High | Medium | Medium | High | Low | High | High | Medium | High | View upstream from econd bridge on left bank |
| 14 | Munster Blackwater_ Allow | Kanturk | 138225 | 103182 | 12 | High | Medium | Medium | High | Low | High | High | Medium | High | View downstream from bridge, macrophyte growth across channel |
| 14 | Munster Blackwater_ Allow | Kanturk | 138241 | 103169 | 13 | High | Medium | Medium | High | Low | High | High | Medium | High | Raw sewage outfall on left bank, FGA growth on wall and substrate |
| 14 | Munster Blackwater_ Allow | Kanturk | 138241 | 103169 | 14 | High | Medium | Medium | High | Low | High | High | Medium | High | Raw sewage outfall on left bank, FGA growth on wall and substrate |
| 14 | Munster Blackwater_ Allow | Kanturk | 138302 | 103029 | 15 | High | Medium | Medium | High | Low | High | High | Medium | High | Placed stone weir in line with creamery |
| 14 | Munster Blackwater_ Allow | Kanturk | 138302 | 103029 | 16 | High | Medium | Medium | High | Low | High | High | Medium | High | Leaking tank and outfalls from creamery |
| 14 | Munster Blackwater_ Allow | Kanturk | 138302 | 103029 | 17 | High | Medium | Medium | High | Low | High | High | Medium | High | Overview of creamery |
| 14 | Munster Blackwater_ Allow | Kanturk | 138340 | 102944 | 18 | High | Medium | Medium | High | Low | High | High | Medium | High | Second placed stone weir |
| 15 | Munster Blackwater_ Allow | Allow Bridge | 139307 | 113770 | 1 | Medium | Medium | Medium | Low | High | Low | Low | Medium | Medium | Looking downstream from Bridge |
| 15 | Munster Blackwater_ Allow | Allow Bridge | 139307 | 113770 | 2 | Medium | Medium | Medium | Low | High | Low | Low | Medium | Medium | Freemount WWTP |
| 15 | Munster Blackwater_ Allow | Allow Bridge | 139307 | 113770 | 3 | Medium | Medium | Medium | Low | High | Low | Low | Medium | Medium | Looking upstream from bridge |
| 15 | Munster Blackwater_ Allow | Allow Bridge | 139307 | 113770 | 4 | Medium | Medium | Medium | Low | High | Low | Low | Medium | Medium | Forestry upstream on right bank |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 15 | Munster Blackwater_ Allow | Allow Bridge | 139294 | 113772 | 5 | Medium | Medium | Medium | Low | High | Low | Low | Medium | Medium | Possible abstraction pipe |
| 15 | Munster Blackwater_ Allow | Allow Bridge | 139362 | 113820 | 6 | Medium | Medium | Medium | Low | High | Low | Low | Medium | Medium | Possible WWTP |
| 15 | Munster Blackwater_ Allow | Allow Bridge | 139307 | 113770 | 7 | Medium | Medium | Medium | Low | High | Low | Low | Medium | Medium | Local School adjacent to channel |
| 15 | Munster Blackwater_ Allow | Allow Bridge | 139310 | 113814 | 8 | Medium | Medium | Medium | Low | High | Low | Low | Medium | Medium | Septic tank inspection chamber |
| 15 | Munster Blackwater_ Allow | Allow Bridge | 139347 | 113825 | 9 | Medium | Medium | Medium | Low | High | Low | Low | Medium | Medium | School pipes |
| 15 | Munster Blackwater_ Allow | Allow Bridge | 139350 | 113816 | 10 | Medium | Medium | Medium | Low | High | Low | Low | Medium | Medium | Freemount WWTP signage |
| 16 | Munster Blackwater_ Allow | Ballynaguilla Bridge | 134428 | 115536 | 1 | High | High | High | High | Low | Low | Low | High | High | Slumping on the left bank |
| 16 | Munster Blackwater_ Allow | Ballynaguilla Bridge | 134428 | 115536 | 2 | High | High | High | High | Low | Low | Low | High | High | Upstream right bank trampling, cattle acessing the river |
| 16 | Munster Blackwater_ Allow | Ballynaguilla Bridge | 134428 | 115536 | 3 | High | High | High | High | Low | Low | Low | High | High | Left bank cattle trampling |
| 16 | Munster Blackwater_ Allow | Ballynaguilla Bridge | 134428 | 115536 | 4 | High | High | High | High | Low | Low | Low | High | High | Looking downstream from bridge, deposition |
| 16 | Munster Blackwater_ Allow | Ballynaguilla Bridge | 134428 | 115536 | 5 | High | High | High | High | Low | Low | Low | High | High | Forestry downstream on the left bank |
| 16 | Munster Blackwater_ Allow | Ballynaguilla Bridge | 134455 | 115561 | 6 | High | High | High | High | Low | Low | Low | High | High | Drainage ditch |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | Munster Blackwater_ Allow | Ballynaguilla Bridge | 134480 | 115577 | 7 | High | High | High | High | Low | Low | Low | High | High | Drainage ditch |
| 16 | Munster Blackwater_ Allow | Ballynaguilla Bridge | 134480 | 115577 | 8 | High | High | High | High | Low | Low | Low | High | High | Drainage ditch |
| 16 | Munster Blackwater_ Allow | Ballynaguilla Bridge | 134488 | 115583 | 9 | High | High | High | High | Low | Low | Low | High | High | House - See Allow photo observation 4 from November surveys.Drain dug to allow run-off from site development to |
| 17 | Munster Blackwater_ Allow | Barleyhill Bridge | 133294 | 110721 | 1 | Medium | Medium | Medium | Low | Low | Low | Low | Medium | Medium | Macrophyte growth in channel |
| 17 | Munster Blackwater_ Allow | Barleyhill Bridge | 133294 | 110721 | 2 | Medium | Medium | Medium | Low | Low | Low | Low | Medium | Medium | Looking upstream from bridge |
| 17 | Munster Blackwater_ Allow | Barleyhill Bridge | 133294 | 110721 | 3 | Medium | Medium | Medium | Low | Low | Low | Low | Medium | Medium | Trampling on left bank |
| 18 | Munster Blackwater_ Allow | Priory Bridge | 134608 | 108520 | 1 | Low | Low | Low | Low | Low | Low | Low | Low | Low | Looking upstream from bridge |
| 18 | Munster Blackwater_ Allow | Priory Bridge | 134608 | 108520 | 2 | Low | Low | Low | Low | Low | Low | Low | Low | Low | Dumping in channel |
| 18 | Munster Blackwater_ Allow | Priory Bridge | 134608 | 108520 | 3 | Low | Low | Low | Low | Low | Low | Low | Low | Low | Unmamaged drain entering on right bank |
| 18 | Munster Blackwater_ Allow | Priory Bridge | 134608 | 108520 | 4 | Low | Low | Low | Low | Low | Low | Low | Low | Low | Just downstream from bridge |
| 19 | Munster Blackwater_ Allow | Long Bridge | 129819 | 104871 | 1 | Low | Medium | High | Low | Low | Low | Low | Medium | Medium | Stained channel |
| 19 | Munster Blackwater_ Allow | Long Bridge | 129819 | 104871 | 2 | Low | Medium | High | Low | Low | Low | Low | Medium | Medium | Overhanging vegetation |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 19 | Munster Blackwater_ Allow | Long Bridge | 129819 | 104871 | 3 | Low | Medium | High | Low | Low | Low | Low | Medium | Medium | Forestry downstream on left bank |
| 19 | Munster Blackwater_ Allow | Long Bridge | 129819 | 104871 | 4 | Low | Medium | High | Low | Low | Low | Low | Medium | Medium | Forestry downstream on left bank |
| 20 | Munster Blackwater_ Allow | Brogeen Bridge | 128767 | 102754 | 1 | Medium | High | High | High | Low | Low | Low | High | High | Cattle drinking access in channel |
| 20 | Munster Blackwater_ Allow | Brogeen Bridge | 128767 | 102754 | 2 | Medium | High | High | High | Low | Low | Low | High | High | Tree line plantation |
| 20 | Munster Blackwater_ Allow | Brogeen Bridge | 128767 | 102754 | 3 | Medium | High | High | High | Low | Low | Low | High | High | Poaching on left bank |
| 20 | Munster Blackwater_ Allow | Brogeen Bridge | 128767 | 102754 | 4 | Medium | High | High | High | Low | Low | Low | High | High | Unmanaged ditch entering on right bank |
| 20 | Munster Blackwater_ Allow | Brogeen Bridge | 128767 | 102754 | 5 | Medium | High | High | High | Low | Low | Low | High | High | Eroding banks |
| 20 | Munster Blackwater_ Allow | Brogeen Bridge | 128767 | 102754 | 6 | Medium | High | High | High | Low | Low | Low | High | High | New conifer tree line downstream from bridge on left bank |
| 20 | Munster Blackwater_ Allow | Brogeen Bridge | 128767 | 102754 | 7 | Medium | High | High | High | Low | Low | Low | High | High | Unmanaged drainage ditch flowing along field into left bank |
| 20 | Munster Blackwater_ Allow | Brogeen Bridge | 128767 | 102754 | 8 | Medium | High | High | High | Low | Low | Low | High | High | Unmanaged drain flowing along field entering on left bank |
| 20 | Munster Blackwater_ Allow | Brogeen Bridge | 128767 | 102754 | 9 | Medium | High | High | High | Low | Low | Low | High | High | Green Belt Ltd Signage |
| 0 | Munster Blackwater_ Allow | Allen's Bridge | 134039 | 104432 | 1 | Low | Low | Low | Low | Low | Low | Low | Low | Low | View looking upstream from bridge |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | Munster Blackwater_ Allow | Allen's Bridge | 134039 | 104432 | 2 | Low | Low | Low | Low | Low | Low | Low | Low | Low | View looking downstream from bridge |
| 87 | Munster Blackwater_ Allow | John's Bridge | 139478 | 109804 | 1 | Medium | Medium | Medium | Medium | Medium | Low | Low | Medium | Medium | Looking downstream from bridge |
| 87 | Munster Blackwater_ Allow | John's Bridge | 139478 | 109804 | 2 | Medium | Medium | Medium | Medium | Medium | Low | Low | Medium | Medium | Looking upstream from bridge, excessive macrophyte growth |
| 87 | Munster Blackwater_ Allow | John's Bridge | 139478 | 109804 | 3 | Medium | Medium | Medium | Medium | Medium | Low | Low | Medium | Medium | Excessive Ranunculus growth upstream of bridge |
| 87 | Munster Blackwater_ Allow | John's Bridge | 139478 | 109804 | 4 | Medium | Medium | Medium | Medium | Medium | Low | Low | Medium | Medium | Bridge structure |
| 87 | Munster Blackwater_ Allow | John's Bridge | 139478 | 109804 | 5 | Medium | Medium | Medium | Medium | Medium | Low | Low | Medium | Medium | Dead mussel in channel |
| 87 | Munster Blackwater_ Allow | John's Bridge | 139478 | 109804 | 6 | Medium | Medium | Medium | Medium | Medium | Low | Low | Medium | Medium | Dead mussel in channel |
| 87 | Munster Blackwater_ Allow | John's Bridge | 139478 | 109804 | 7 | Medium | Medium | Medium | Medium | Medium | Low | Low | Medium | Medium | Dead mussel in channel |
| 87 | Munster Blackwater_ Allow | John's Bridge | 139478 | 109804 | 8 | Medium | Medium | Medium | Medium | Medium | Low | Low | Medium | Medium | Approx. 10 live mussels and a recent dead mussel at this point |
| 87 | Munster Blackwater_ Allow | John's Bridge | 139478 | 109804 | 9 | Medium | Medium | Medium | Medium | Medium | Low | Low | Medium | Medium | Approx. 10 live mussels and a recent dead mussel at this point |
| 87 | Munster Blackwater_ Allow | John's Bridge | 139478 | 109804 | 10 | Medium | Medium | Medium | Medium | Medium | Low | Low | Medium | Medium | Approx. 10 live mussels and a recent dead mussel at this point |
| 87 | Munster Blackwater_ Allow | John's Bridge | 139478 | 109804 | 11 | Medium | Medium | Medium | Medium | Medium | Low | Low | Medium | Medium | Approx. 10 live mussels and a recent dead mussel at this point |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 87 | Munster Blackwater_ Allow | John's Bridge | 139478 | 109804 | 12 | Medium | Medium | Medium | Medium | Medium | Low | Low | Medium | Medium | Algae on right bank |
| 87 | Munster Blackwater_ Allow | John's Bridge | 139478 | 109804 | 13 | Medium | Medium | Medium | Medium | Medium | Low | Low | Medium | Medium | Algae on right bank |
| 87 | Munster Blackwater_ Allow | John's Bridge | 139478 | 109804 | 14 | Medium | Medium | Medium | Medium | Medium | Low | Low | Medium | Medium | Storm drain on right bank. Ranunculus growth in channel at this point. |
| 87 | Munster Blackwater_ Allow | John's Bridge | 139478 | 109804 | 15 | Medium | Medium | Medium | Medium | Medium | Low | Low | Medium | Medium | Significant cattle poaching on left bank |
| 87 | Munster Blackwater_ Allow | John's Bridge | 139478 | 109804 | 16 | Medium | Medium | Medium | Medium | Medium | Low | Low | Medium | Medium | End point of survey looking upstream |
| 87 | Munster Blackwater_ Allow | John's Bridge | 139478 | 109804 | 17 | Medium | Medium | Medium | Medium | Medium | Low | Low | Medium | Medium | End point of survey looking downstream |
| 21 | Munster Blackwater | Ballyclough | 149088 | 101688 | 1 | High | Medium | Low | High | High | Low | Low | Medium | High | Downstream from left bank at bridge |
| 21 | Munster Blackwater | Ballyclough | 149088 | 101688 | 2 | High | Medium | Low | High | High | Low | Low | Medium | High | Bridge structure |
| 21 | Munster Blackwater | Ballyclough | 149088 | 101688 | 3 | High | Medium | Low | High | High | Low | Low | Medium | High | Dry concrete small culvert |
| 21 | Munster Blackwater | Ballyclough | 149088 | 101688 | 4 | High | Medium | Low | High | High | Low | Low | Medium | High | Small rocks placed in channel as barrier |
| 21 | Munster Blackwater | Ballyclough | 149088 | 101688 | 5 | High | Medium | Low | High | High | Low | Low | Medium | High | Upstream from bridge |
| 21 | Munster Blackwater | Ballyclough | 149088 | 101688 | 6 | High | Medium | Low | High | High | Low | Low | Medium | High | wet drain from right bank at road |
| 21 | Munster Blackwater | Ballyclough | 149088 | 101688 | 7 | High | Medium | Low | High | High | Low | Low | Medium | High | Dry drain from left bank |
| 21 | Munster Blackwater | Ballyclough | 149075 | 101674 | 8 | High | Medium | Low | High | High | Low | Low | Medium | High | Culvert |
| 21 | Munster Blackwater | Ballyclough | 149088 | 101688 | 9 | High | Medium | Low | High | High | Low | Low | Medium | High | Small site excavation works |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 22 | Munster Blackwater | An Abba Bheag | 145007 | 107252 | 1 | Low | Medium | Medium | Medium | High | Low | Medium | Medium | Medium | EPS Pumping & treatment systems |
| 22 | Munster Blackwater | An Abba Bheag | 145017 | 107256 | 2 | Low | Medium | Medium | Medium | High | Low | Medium | Medium | Medium | EPS Pumping & treatment systems |
| 22 | Munster Blackwater | An Abba Bheag | 145017 | 107256 | 3 | Low | Medium | Medium | Medium | High | Low | Medium | Medium | Medium | Upstream from bridge, pipe discharging |
| 22 | Munster Blackwater | An Abba Bheag | 145017 | 107256 | 4 | Low | Medium | Medium | Medium | High | Low | Medium | Medium | Medium | Drainage pipe, just upstream of bridge on right bank |
| 22 | Munster Blackwater | An Abba Bheag | 145017 | 107256 | 5 | Low | Medium | Medium | Medium | High | Low | Medium | Medium | Medium | Looking downstream from bridge |
| 22 | Munster Blackwater | An Abba Bheag | 145020 | 107243 | 6 | Low | Medium | Medium | Medium | High | Low | Medium | Medium | Medium | Twin culvert drain |
| 22 | Munster Blackwater | An Abba Bheag | 145031 | 107249 | 7 | Low | Medium | Medium | Medium | High | Low | Medium | Medium | Medium | Other side of culvery |
| 22 | Munster Blackwater | An Abba Bheag | 145032 | 107172 | 8 | Low | Medium | Medium | Medium | High | Low | Medium | Medium | Medium | Bank side vegetation removed to build perimeter wall |
| 22 | Munster Blackwater | An Abba Bheag | 145032 | 107172 | 9 | Low | Medium | Medium | Medium | High | Low | Medium | Medium | Medium | Bank side vegetation removed to build perimeter wall |
| 22 | Munster Blackwater | An Abba Bheag | 145017 | 107256 | 10 | Low | Medium | Medium | Medium | High | Low | Medium | Medium | Medium | Bridge structure and fencing |
| 23 | Munster Blackwater | Awbeg River | 146158 | 113715 | 1 | Medium | Low | Medium | Medium | Low | Low | Low | Low | Medium | Bridge structure |
| 23 | Munster Blackwater | Awbeg River | 146158 | 113715 | 2 | Medium | Low | Medium | Medium | Low | Low | Low | Low | Medium | Downstream from road bridge |
| 23 | Munster Blackwater | Awbeg River | 146158 | 113715 | 3 | Medium | Low | Medium | Medium | Low | Low | Low | Low | Medium | Upstream from road bridge |
| 24 | Munster Blackwater | Cooliney Bridge | 150220 | 118608 | 1 | Medium | Medium | Medium | Medium | Low | Low | Low | Medium | Medium | Downstream from bridge cattle allowed access for drinking water |
| 24 | Munster Blackwater | Cooliney Bridge | 150220 | 118608 | 2 | Medium | Medium | Medium | Medium | Low | Low | Low | Medium | Medium | Cattle trampling caused by drinking water access |
| 24 | Munster Blackwater | Cooliney Bridge | 150220 | 118608 | 3 | Medium | Medium | Medium | Medium | Low | Low | Low | Medium | Medium | Unmanaged inflowing land drain together with trampled bankside |
| 24 | Munster Blackwater | Cooliney Bridge | 150220 | 118608 | 4 | Medium | Medium | Medium | Medium | Low | Low | Low | Medium | Medium | Flow upstream from bridge |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 24 | Munster Blackwater | Cooliney Bridge | 150220 | 118608 | 5 | Medium | Medium | Medium | Medium | Low | Low | Low | Medium | Medium | Trampling upstream on right bank |
| 0 | Munster Blackwater | | 152754 | 119247 | 1 | | | | | | | | | | Gate to large silo associated with Charleville Foods |
| 0 | Munster Blackwater | | 152754 | 119247 | 2 | | | | | | | | | | Gate to large silo associated with Charleville Foods |
| 0 | Munster Blackwater | | 152754 | 119247 | 3 | | | | | | | | | | SW1 & SW2 |
| 0 | Munster Blackwater | | 152754 | 119247 | 4 | | | | | | | | | | SW 3 |
| 0 | Munster Blackwater | | 152754 | 119247 | 5 | | | | | | | | | | SW 4 |
| 0 | Munster Blackwater | | 152754 | 119247 | 6 | | | | | | | | | | Pipe from silo culverted under road and entering stream |
| 25 | Munster Blackwater | Farran Bridge | 154321 | 118444 | 1 | High | High | Medium | High | High | Medium | Low | Medium | High | Downstream from bridge one excessive Ranunculus growth |
| 25 | Munster Blackwater | Farran Bridge | 154321 | 118444 | 2 | High | High | Medium | High | High | Medium | Low | Medium | High | Upstream from bridge one excessive macrophyte growth |
| 25 | Munster Blackwater | Farran Bridge | 154321 | 118444 | 3 | High | High | Medium | High | High | Medium | Low | Medium | High | Downstream from bridge two excessive macrophyte growth |
| 25 | Munster Blackwater | Farran Bridge | 154351 | 118492 | 4 | High | High | Medium | High | High | Medium | Low | Medium | High | Upstream from bridge two excessive macrophyte growth |
| 25 | Munster Blackwater | Farran Bridge | 154351 | 118492 | 5 | High | High | Medium | High | High | Medium | Low | Medium | High | Abstraction pipe upstream on bridge two |
| 25 | Munster Blackwater | Farran Bridge | 154351 | 118492 | 6 | High | High | Medium | High | High | Medium | Low | Medium | High | Abstraction pipe upstream on bridge two |
| 25 | Munster Blackwater | Farran Bridge | 154351 | 118492 | 7 | High | High | Medium | High | High | Medium | Low | Medium | High | Abstraction pipe upstream on bridge two |
| 25 | Munster Blackwater | Farran Bridge | 154355 | 118516 | 8 | High | High | Medium | High | High | Medium | Low | Medium | High | Outfall with FGA growth surrounding discharge point |
| 25 | Munster Blackwater | Farran Bridge | 154355 | 118516 | 9 | High | High | Medium | High | High | Medium | Low | Medium | High | Small conifer plantation upstream on right bank |
| 26 | Munster Blackwater | Buttevant Bridge | 154415 | 109302 | 1 | Medium | High | High | Medium | High | Low | Low | Medium | High | Looking upstream from bridge, excessive macrophyte growth |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 26 | Munster Blackwater | Buttevant Bridge | 154415 | 109302 | 2 | Medium | High | High | Medium | High | Low | Low | Medium | High | Outfall on right bank |
| 26 | Munster Blackwater | Buttevant Bridge | 154415 | 109302 | 3 | Medium | High | High | Medium | High | Low | Low | Medium | High | Excessive macorpohye growth downstream from bridge |
| 26 | Munster Blackwater | Buttevant Bridge | 154415 | 109302 | 4 | Medium | High | High | Medium | High | Low | Low | Medium | High | Outfall on right bank, downstream of bridge |
| 26 | Munster Blackwater | Buttevant Bridge | 154415 | 109302 | 5 | Medium | High | High | Medium | High | Low | Low | Medium | High | Taps on abstraction pipe |
| 26 | Munster Blackwater | Buttevant Bridge | 154415 | 109302 | 6 | Medium | High | High | Medium | High | Low | Low | Medium | High | Bridge structure showing pipes and macrophyte growth |
| 26 | Munster Blackwater | Buttevant Bridge | 154415 | 109302 | 7 | Medium | High | High | Medium | High | Low | Low | Medium | High | Fertiliser stored on right bank upstream of bridge |
| 26 | Munster Blackwater | Buttevant Bridge | 154415 | 109302 | 8 | Medium | High | High | Medium | High | Low | Low | Medium | High | Buttevant WWTP application for discharge licence |
| 26 | Munster Blackwater | Buttevant Bridge | 154487 | 109299 | 9 | Medium | High | High | Medium | High | Low | Low | Medium | High | Buttevant WWTP |
| 27 | Munster Blackwater | Doneraile | 160140 | 107539 | 1 | Medium | High | Medium | Low | High | Low | Low | Medium | High | Bridge structure, excessive macrophyte growth |
| 27 | Munster Blackwater | Doneraile | 160140 | 107539 | 2 | Medium | High | Medium | Low | High | Low | Low | Medium | High | Dry road, overgrown on left bank |
| 27 | Munster Blackwater | Doneraile | 160140 | 107539 | 3 | Medium | High | Medium | Low | High | Low | Low | Medium | High | Excessive macrophyte growth across channel |
| 27 | Munster Blackwater | Doneraile | 160140 | 107539 | 4 | Medium | High | Medium | Low | High | Low | Low | Medium | High | Umbellifreae, Ranunculus and Sparganium growth in channel |
| 27 | Munster Blackwater | Doneraile | 160140 | 107539 | 5 | Medium | High | Medium | Low | High | Low | Low | Medium | High | Clearance of right bank downstream from bridge at WWTP |
| 27 | Munster Blackwater | Doneraile | 160140 | 107539 | 6 | Medium | High | Medium | Low | High | Low | Low | Medium | High | Doneraile WWTP application for discharge licence |
| 27 | Munster Blackwater | Doneraile | 160140 | 107539 | 7 | Medium | High | Medium | Low | High | Low | Low | Medium | High | Doneraile WWTP |
| 28 | Munster Blackwater | Streamhill bridge | 160339 | 111678 | 1 | Low | Low | Low | Low | Low | Low | Low | Low | Low | View upstream from under bridge |
| 28 | Munster Blackwater | Streamhill bridge | 160339 | 111678 | 2 | Low | Low | Low | Low | Low | Low | Low | Low | Low | Bridge structure |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 28 | Munster Blackwater | Streamhill bridge | 160339 | 111678 | 3 | Low | Low | Low | Low | Low | Low | Low | Low | Low | Fallen tree, view downstream from bridge |
| 28 | Munster Blackwater | Streamhill bridge | 160301 | 111683 | 4 | Low | Low | Low | Low | Low | Low | Low | Low | Low | Gunnera in adjacent garden |
| 29 | Munster Blackwater | Labbavacun Bridge | 162602 | 108157 | 1 | Medium | Medium | Low | Low | Low | Low | Low | Low | Medium | View downstream from under bridge, fenced to prevent further cattle access |
| 29 | Munster Blackwater | Labbavacun Bridge | 162602 | 108157 | 2 | Medium | Medium | Low | Low | Low | Low | Low | Low | Medium | Upstream, bank erosion |
| 29 | Munster Blackwater | Labbavacun Bridge | 162602 | 108157 | 3 | Medium | Medium | Low | Low | Low | Low | Low | Low | Medium | Reinforced wall on left bank |
| 29 | Munster Blackwater | Labbavacun Bridge | 162602 | 108157 | 4 | Medium | Medium | Low | Low | Low | Low | Low | Low | Medium | Drain under bridge |
| 30 | Munster Blackwater | Ballynamona Bridge | 169126 | 110249 | 1 | High | Medium | Medium | Medium | Low | Low | Medium | Low | High | View upstream from bridge - Ranunculus growth |
| 30 | Munster Blackwater | Ballynamona Bridge | 169126 | 110249 | 2 | High | Medium | Medium | Medium | Low | Low | Medium | Low | High | Reinforced bank with numerous outfalls visible on right bank |
| 30 | Munster Blackwater | Ballynamona Bridge | 169126 | 110249 | 3 | High | Medium | Medium | Medium | Low | Low | Medium | Low | High | View downstream from bridge, macrophyte growth |
| 30 | Munster Blackwater | Ballynamona Bridge | 165663 | 107554 | 4 | High | Medium | Medium | Medium | Low | Low | Medium | Low | High | Measuring station with solar panels |
| 30 | Munster Blackwater | Ballynamona Bridge | 165663 | 107554 | 5 | High | Medium | Medium | Medium | Low | Low | Medium | Low | High | Measuring station with solar panels |
| 30 | Munster Blackwater | Ballynamona Bridge | 165663 | 107554 | 6 | High | Medium | Medium | Medium | Low | Low | Medium | Low | High | Measuring station with solar panels |
| 31 | Munster Blackwater | Farahy River | 169126 | 110249 | 1 | High | High | Medium | Medium | High | Low | Low | Medium | High | Excessive macrophyte growth across channel, highly coloured channel, very poor riparian zone |
| 31 | Munster Blackwater | Farahy River | 169126 | 110249 | 2 | High | High | Medium | Medium | High | Low | Low | Medium | High | Reinforced right for house,numerous drain pipes |
| 31 | Munster Blackwater | Farahy River | 169126 | 110249 | 3 | High | High | Medium | Medium | High | Low | Low | Medium | High | Downstream from foot bridge, highly coloured, macrophyte growth |
| 31 | Munster Blackwater | Farahy River | 169126 | 110249 | 4 | High | High | Medium | Medium | High | Low | Low | Medium | High | Grass clipping s dumped on bank, encroachment of garden plants |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 31 | Munster Blackwater | Farahy River | 169126 | 110249 | 5 | High | High | Medium | Medium | High | Low | Low | Medium | High | Encroachment of garden plants and reinforced bank |
| 31 | Munster Blackwater | Farahy River | 169126 | 110249 | 6 | High | High | Medium | Medium | High | Low | Low | Medium | High | Drainage ditch |
| 32 | Munster Blackwater | Keale River | 172296 | 117495 | 1 | Low | Medium | Low | High | Low | Low | Low | Medium | Medium | View upstream,overhanging trees,macrophyte growth |
| 32 | Munster Blackwater | Keale River | 172296 | 117495 | 2 | Low | Medium | Low | High | Low | Low | Low | Medium | Medium | View upstream,overhanging trees,macrophyte growth |
| 32 | Munster Blackwater | Keale River | 172273 | 117474 | 3 | Low | Medium | Low | High | Low | Low | Low | Medium | Medium | Trib from footbridge |
| 32 | Munster Blackwater | Keale River | 172273 | 117474 | 4 | Low | Medium | Low | High | Low | Low | Low | Medium | Medium | Drain from footbridge |
| 32 | Munster Blackwater | Keale River | 172245 | 117461 | 5 | Low | Medium | Low | High | Low | Low | Low | Medium | Medium | Field drainage upstream on right bank |
| 32 | Munster Blackwater | Keale River | 172245 | 117461 | 6 | Low | Medium | Low | High | Low | Low | Low | Medium | Medium | Macrophyte growth and poor riaparian cover |
| 32 | Munster Blackwater | Keale River | 172287 | 117498 | 7 | Low | Medium | Low | High | Low | Low | Low | Medium | Medium | Road drain |
| 33 | Munster Blackwater | Glenavucdig Bridge | 172316 | 110789 | 1 | Low | Medium | Medium | Low | Low | Medium | Medium | Medium | Medium | Macrophyte growth and coloured channel |
| 33 | Munster Blackwater | Glenavucdig Bridge | 172316 | 110789 | 2 | Low | Medium | Medium | Low | Low | Medium | Medium | Medium | Medium | Excessive macrophyte growth and poor riparian zone |
| 33 | Munster Blackwater | Glenavucdig Bridge | 172330 | 110776 | 3 | Low | Medium | Medium | Low | Low | Medium | Medium | Medium | Medium | Flow measurement station |
| 33 | Munster Blackwater | Glenavucdig Bridge | 172330 | 110776 | 4 | Low | Medium | Medium | Low | Low | Medium | Medium | Medium | Medium | Solar panel associated with flow station |
| 33 | Munster Blackwater | Glenavucdig Bridge | 172330 | 110776 | 5 | Low | Medium | Medium | Low | Low | Medium | Medium | Medium | Medium | Staff gauge |
| 34 | Munster Blackwater | Meanstown Bridge | 171564 | 108649 | 1 | Medium | Medium | Medium | Low | Low | Low | Low | Medium | Medium | Looking upstream from bridge |
| 34 | Munster Blackwater | Meanstown Bridge | 171564 | 108649 | 2 | Medium | Medium | Medium | Low | Low | Low | Low | Medium | Medium | Right bank under bridge |
| 34 | Munster Blackwater | Meanstown Bridge | 171564 | 108649 | 3 | Medium | Medium | Medium | Low | Low | Low | Low | Medium | Medium | Heavily shaded downstream on right bank |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 35 | Munster Blackwater | Awbeg Castletownroche | 168649 | 102272 | 1 | High | Medium | Medium | Low | Medium | Low | High | Medium | High | Culvert downstream on left bank |
| 35 | Munster Blackwater | Awbeg Castletownroche | 168649 | 102272 | 2 | High | Medium | Medium | Low | Medium | Low | High | Medium | High | Upstream from culvert heavy macrophyte growth |
| 35 | Munster Blackwater | Awbeg Castletownroche | 168649 | 102272 | 3 | High | Medium | Medium | Low | Medium | Low | High | Medium | High | View upstream of footbridge |
| 35 | Munster Blackwater | Awbeg Castletownroche | 168649 | 102272 | 4 | High | Medium | Medium | Low | Medium | Low | High | Medium | High | View downstream from footbridge |
| 35 | Munster Blackwater | Awbeg Castletownroche | 168649 | 102272 | 5 | High | Medium | Medium | Low | Medium | Low | High | Medium | High | Culverted channel |
| 35 | Munster Blackwater | Awbeg Castletownroche | 168649 | 102272 | 6 | High | Medium | Medium | Low | Medium | Low | High | Medium | High | Bridge structure |
| 35 | Munster Blackwater | Awbeg Castletownroche | 168649 | 102272 | 7 | High | Medium | Medium | Low | Medium | Low | High | Medium | High | Upstream of bridge |
| 35 | Munster Blackwater | Awbeg Castletownroche | 168649 | 102272 | 8 | High | Medium | Medium | Low | Medium | Low | High | Medium | High | Downstream from bridge |
| 35 | Munster Blackwater | Awbeg Castletownroche | 168649 | 102272 | 9 | High | Medium | Medium | Low | Medium | Low | High | Medium | High | Weir and macrophyte growth |
| 36 | Munster Blackwater | Annakisha | 161330 | 102742 | 1 | Low | Low | Low | Low | Low | Low | Low | Low | Low | Some macrophyte growth at bridge |
| 36 | Munster Blackwater | Annakisha | 161330 | 102742 | 2 | Low | Low | Low | Low | Low | Low | Low | Low | Low | Poor bank side vegetation |
| 36 | Munster Blackwater | Annakisha | 161330 | 102742 | 3 | Low | Low | Low | Low | Low | Low | Low | Low | Low | Overhanging vegetation |
| 37 | Munster Blackwater | | 144263 | 98865 | 1 | | | | | | | | | | Looking upstream from bridge |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 37 | Munster Blackwater | | 144263 | 98865 | 2 | | | | | | | | | | Looking downstream from bridge |
| 37 | Munster Blackwater | | 144263 | 98865 | 3 | | | | | | | | | | Bridge apron underneath bridge |
| 37 | Munster Blackwater | | 144263 | 98865 | 4 | | | | | | | | | | Right bank reinforced with cattle grazing in background |
| 37 | Munster Blackwater | | 144263 | 98865 | 5 | | | | | | | | | | Arable/tillage on right bank just downstream of bridge |
| 37 | Munster Blackwater | | 144247 | 98835 | 6 | | | | | | | | | | H.Balsam continues along right bank |
| 37 | Munster Blackwater | | 144263 | 98865 | 7 | | | | | | | | | | Bridge Structure |
| 37 | Munster Blackwater | | 144288 | 98773 | 8 | | | | | | | | | | Side bearm with very small pockets of ranunculus |
| 37 | Munster Blackwater | | 144317 | 98705 | 9 | | | | | | | | | | Left bank looks slightly embanked & raised in comparison to right bank |
| 37 | Munster Blackwater | | 144353 | 98639 | 10 | | | | | | | | | | Possible fisheries weir at this point |
| 37 | Munster Blackwater | | 144353 | 98639 | 11 | | | | | | | | | | Very high banks on right & left, deflectors on right bank to enphasise pools for fisheries |
| 37 | Munster Blackwater | | 144353 | 98639 | 12 | | | | | | | | | | Close up of deflectors |
| 37 | Munster Blackwater | | 144348 | 98589 | 13 | | | | | | | | | | Field on right bank has flooding at same level as river channel.H.Balsam surrounds the whole field |
| 38 | Munster Blackwater | Scarradarragh River | 130767 | 98126 | 1 | Medium | Medium | Medium | Medium | Medium | Low | Low | Medium | Medium | Looking downstream from road bridge |
| 38 | Munster Blackwater | Scarradarragh River | 130767 | 98126 | 2 | Medium | Medium | Medium | Medium | Medium | Low | Low | Medium | Medium | Looking upstream from road bridge |
| 38 | Munster Blackwater | Scarradarragh River | 130764 | 98115 | 3 | Medium | Medium | Medium | Medium | Medium | Low | Low | Medium | Medium | Infilling/disturbance on right bank |
| 38 | Munster Blackwater | Scarradarragh River | 130888 | 97963 | 4 | Medium | Medium | Medium | Medium | Medium | Low | Low | Medium | Medium | Heavy shading looking upstream |
| 38 | Munster Blackwater | Scarradarragh River | 130888 | 97963 | 5 | Medium | Medium | Medium | Medium | Medium | Low | Low | Medium | Medium | Calitriche growth upstream |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 38 | Munster Blackwater | Scarradarragh River | 130888 | 97956 | 6 | Medium | Medium | Medium | Medium | Medium | Low | Low | Medium | Medium | Dredged channel, historical possible by landowner, now fenced off with regrowth of nettles and poorer plant spec |
| 38 | Munster Blackwater | Scarradarragh River | 130888 | 97956 | 7 | Medium | Medium | Medium | Medium | Medium | Low | Low | Medium | Medium | Substrate condition with some ranunculus growth |
| 38 | Munster Blackwater | Scarradarragh River | 130888 | 97956 | 8 | Medium | Medium | Medium | Medium | Medium | Low | Low | Medium | Medium | Closer view of excavated channel with poor bank side vegetation |
| 39 | Munster Blackwater | | 124812 | 94401 | 1 | | | | | | | | | | Looking upstream from road bridge, ranunculus growth across the channel |
| 39 | Munster Blackwater | | 124812 | 94401 | 2 | | | | | | | | | | Looking downstream from road bridge, very small amounts of ranunculus |
| 39 | Munster Blackwater | | 124812 | 94401 | 3 | | | | | | | | | | Scouring on left bank at bridge, macrophyte growth at this point loss of pearl mussel habitat |
| 39 | Munster Blackwater | | 124831 | 94374 | 4 | | | | | | | | | | Bridge Structure with in channel piers |
| 39 | Munster Blackwater | | 124857 | 94384 | 5 | | | | | | | | | | Exessive ranunculus growth at riffle most likely due to deposition of silt |
| 39 | Munster Blackwater | | 124938 | 94369 | 6 | | | | | | | | | | Possible OPW station |
| 39 | Munster Blackwater | | 124938 | 94369 | 7 | | | | | | | | | | Possible OPW station |
| 39 | Munster Blackwater | | 124950 | 94368 | 8 | | | | | | | | | | Trampling on left bank |
| 39 | Munster Blackwater | | 125001 | 94321 | 9 | | | | | | | | | | V-notch weir |
| 39 | Munster Blackwater | | 125013 | 94290 | 10 | | | | | | | | | | Unmanaged drain entering on RB |
| 40 | Munster Blackwater | | 126505 | 90301 | 1 | | | | | | | | | | Looking downstream from bridge |
| 40 | Munster Blackwater | | 126505 | 90301 | 2 | | | | | | | | | | Gunnera on left bank at bridge |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 40 | Munster Blackwater | | 126505 | 90301 | 3 | | | | | | | | | | Reinforced on right bank |
| 40 | Munster Blackwater | | 126505 | 90301 | 4 | | | | | | | | | | Macrophyte growth on right side of channel not excessive |
| 40 | Munster Blackwater | | 126506 | 90310 | 5 | | | | | | | | | | Side bearm on left bank, meander just after bridge |
| 40 | Munster Blackwater | | 126421 | 90352 | 6 | | | | | | | | | | Looking upstream, slighlty choked section for approx. 35m with heavy macrophyte growth |
| 40 | Munster Blackwater | | 126421 | 90352 | 7 | | | | | | | | | | Looking downstream macrophyte growth on left bank |
| 40 | Munster Blackwater | | 126421 | 90352 | 8 | | | | | | | | | | Scouring on outside of meander where cattle may have had access |
| 40 | Munster Blackwater | | 126385 | 90430 | 9 | | | | | | | | | | Ranunculus across channel |
| 40 | Munster Blackwater | | 126350 | 90449 | 10 | | | | | | | | | | Poaching where cattle have access on left bank |
| 40 | Munster Blackwater | | 126350 | 90449 | 11 | | | | | | | | | | Trampling on left bank |
| 40 | Munster Blackwater | | 126350 | 90449 | 12 | | | | | | | | | | Trampling/Poaching on bank and into water |
| 40 | Munster Blackwater | | 126350 | 90449 | 13 | | | | | | | | | | Area where cattle are fenced in to provide drinking water |
| 40 | Munster Blackwater | | 126335 | 90455 | 14 | | | | | | | | | | Dumped rubble on left bank |
| 40 | Munster Blackwater | | 126335 | 90455 | 15 | | | | | | | | | | Silt plume at cattle drinking access point |
| 40 | Munster Blackwater | | 126335 | 90455 | 16 | | | | | | | | | | Silt plume at cattle drinking access point |
| 41 | Munster Blackwater | Nohoval Bridge | 117281 | 94270 | 1 | | | | | | | | | | Looking upstream from road bridge |
| 41 | Munster Blackwater | Nohoval Bridge | 117281 | 94270 | 2 | | | | | | | | | | Cattle access/poaching on left bank downstream of bridge |
| 41 | Munster Blackwater | Nohoval Bridge | 117281 | 94270 | 3 | | | | | | | | | | Scouring from bridge structure on right bank |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | just downstream of bridge |
| 41 | Munster Blackwater | Nohoval Bridge | 117281 | 94276 | 4 | | | | | | | | | | Access/tractor/machinery from left bank upstream of bridge |
| 41 | Munster Blackwater | Nohoval Bridge | 117281 | 94276 | 5 | | | | | | | | | | Ranunculus across channel looking upstream from bridge |
| 41 | Munster Blackwater | Nohoval Bridge | 117311 | 94298 | 6 | | | | | | | | | | Small extraction on left bank approx 200m back from bank |
| 41 | Munster Blackwater | Nohoval Bridge | 117312 | 94298 | 7 | | | | | | | | | | Managed drain feeding in on left bank |
| 41 | Munster Blackwater | Nohoval Bridge | 117305 | 94222 | 8 | | | | | | | | | | Peat stained, high flows, lots of ranunculus in channel |
| 41 | Munster Blackwater | Nohoval Bridge | 117305 | 94222 | 9 | | | | | | | | | | H.Balsam on right bank |
| 41 | Munster Blackwater | Nohoval Bridge | 117329 | 94167 | 10 | | | | | | | | | | Excessive poaching & trampling which has destroyed the left bank and left many slumps |
| 41 | Munster Blackwater | Nohoval Bridge | 117329 | 94167 | 11 | | | | | | | | | | Excessive poaching & trampling which has destroyed the left bank and left many slumps |
| 41 | Munster Blackwater | Nohoval Bridge | 117329 | 94167 | 12 | | | | | | | | | | Trash line approx. 1.5m high |
| 41 | Munster Blackwater | Nohoval Bridge | 117329 | 94167 | 13 | | | | | | | | | | Unmanaged land drain |
| 41 | Munster Blackwater | Nohoval Bridge | 117335 | 94158 | 14 | | | | | | | | | | Set back forestry on left bank |
| 42 | Munster Blackwater | Farnankeel bridge | 116010 | 97460 | 1 | | | | | | | | | | Ford with machinery/tractor tyre marks on right bank |
| 42 | Munster Blackwater | Farnankeel bridge | 116010 | 97460 | 2 | | | | | | | | | | Deposition of silt under 4th arch of bridge |
| 42 | Munster Blackwater | Farnankeel bridge | 116010 | 97460 | 3 | | | | | | | | | | Looking upstream from start point very heavily silted,stained brown |
| 42 | Munster Blackwater | Farnankeel bridge | 116015 | 97458 | 4 | | | | | | | | | | View of river in flood looking upstream from bridge |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 42 | Munster Blackwater | Farnankeel bridge | 116016 | 97453 | 5 | | | | | | | | | | Looking downstream from bridge, scouring on left & right bank at bridge, some ranunculus growth also |
| 42 | Munster Blackwater | Farnankeel bridge | 115980 | 97454 | 6 | | | | | | | | | | Drainage ditch dug out in field on adjacent right bank |
| 42 | Munster Blackwater | Farnankeel bridge | 116020 | 97400 | 7 | | | | | | | | | | Land cleared in the past to give rise to embankment on right bank, recently cleared & fenced using digger |
| 42 | Munster Blackwater | Farnankeel bridge | 115984 | 97353 | 8 | | | | | | | | | | Side channel |
| 42 | Munster Blackwater | Farnankeel bridge | 115984 | 97348 | 9 | | | | | | | | | | Eroding banks both left & right looking downstream |
| 42 | Munster Blackwater | Farnankeel bridge | 115984 | 97348 | 10 | | | | | | | | | | Eroding banks both left & right looking downstream - large riffle area |
| 42 | Munster Blackwater | Farnankeel bridge | 115987 | 97357 | 11 | | | | | | | | | | Very erodable high banks which may be a source of silt.Marshy land on LB, forestry downstream |
| 43 | Munster Blackwater | Duncannon Bridge | 118096 | 93155 | 1 | High | Medium | Low | Medium | Medium | Low | Low | High | High | Cattle in channel |
| 43 | Munster Blackwater | Duncannon Bridge | 118096 | 93155 | 2 | High | Medium | Low | Medium | Medium | Low | Low | High | High | Cattle exiting channel |
| 43 | Munster Blackwater | Duncannon Bridge | 118096 | 93155 | 3 | High | Medium | Low | Medium | Medium | Low | Low | High | High | Cattle drinking mid channel |
| 43 | Munster Blackwater | Duncannon Bridge | 118096 | 93155 | 4 | High | Medium | Low | Medium | Medium | Low | Low | High | High | Cattle crossing under bridge |
| 43 | Munster Blackwater | Duncannon Bridge | 118096 | 93155 | 5 | High | Medium | Low | Medium | Medium | Low | Low | High | High | Cattle exiting channel |
| 43 | Munster Blackwater | Duncannon Bridge | 118096 | 93155 | 6 | High | Medium | Low | Medium | Medium | Low | Low | High | High | Silt plume created and going downstream from cattle disturbance |
| 43 | Munster Blackwater | Duncannon Bridge | 118096 | 93155 | 7 | High | Medium | Low | Medium | Medium | Low | Low | High | High | Cattle accessing from left bank downstream of bridge |
| 43 | Munster Blackwater | Duncannon Bridge | 118096 | 93155 | 8 | High | Medium | Low | Medium | Medium | Low | Low | High | High | Reinforced left bank downstream of bridge, together with silt plume |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 43 | Munster Blackwater | Duncannon Bridge | 118096 | 93155 | 9 | High | Medium | Low | Medium | Medium | Low | Low | High | High | Cattle access point with silt plume |
| 43 | Munster Blackwater | Duncannon Bridge | 118096 | 93155 | 10 | High | Medium | Low | Medium | Medium | Low | Low | High | High | Looking downstream from bridge |
| 43 | Munster Blackwater | Duncannon Bridge | 118096 | 93155 | 11 | High | Medium | Low | Medium | Medium | Low | Low | High | High | Looking upstream from bridge |
| 43 | Munster Blackwater | Duncannon Bridge | 118096 | 93155 | 12 | High | Medium | Low | Medium | Medium | Low | Low | High | High | Cadbury's plant downstream on right bank |
| 43 | Munster Blackwater | Duncannon Bridge | 118096 | 93155 | 13 | High | Medium | Low | Medium | Medium | Low | Low | High | High | Landowner has fenced sections of improved grassland off from cattle |
| 43 | Munster Blackwater | Duncannon Bridge | 118096 | 93155 | 14 | High | Medium | Low | Medium | Medium | Low | Low | High | High | Landowner has fenced sections of improved grassland off from cattle |
| 44 | Munster Blackwater | Owentarraghglin | 122417 | 94341 | 1 | Medium | Low | Low | Medium | Low | Low | Low | Medium | Medium | Looking downstream from left bank, Ranunculus in channel not excessive |
| 44 | Munster Blackwater | Owentarraghglin | 122417 | 94341 | 2 | Medium | Low | Low | Medium | Low | Low | Low | Medium | Medium | Looking upstream from road bridge |
| 44 | Munster Blackwater | Owentarraghglin | 122417 | 94341 | 3 | Medium | Low | Low | Medium | Low | Low | Low | Medium | Medium | Cattle access poaching upstream on right bank fenced also up & down stream |
| 45 | Munster Blackwater | Owentarraghglin | 112690 | 99298 | 1 | Medium | Medium | Medium | Medium | Medium | Low | Medium | Medium | Medium | View downstream, stained channel |
| 45 | Munster Blackwater | Owentarraghglin | 112690 | 99298 | 2 | Medium | Medium | Medium | Medium | Medium | Low | Medium | Medium | Medium | Reinforced on left bank at bridge |
| 45 | Munster Blackwater | Owentarraghglin | 112690 | 99298 | 3 | Medium | Medium | Medium | Medium | Medium | Low | Medium | Medium | Medium | View upstream on main channel |
| 45 | Munster Blackwater | Owentarraghglin | 112690 | 99298 | 4 | Medium | Medium | Medium | Medium | Medium | Low | Medium | Medium | Medium | Trib entering channel on right bank just upstream of bridge |
| 45 | Munster Blackwater | Owentarraghglin | 112690 | 99298 | 5 | Medium | Medium | Medium | Medium | Medium | Low | Medium | Medium | Medium | Trib entering channel |
| 45 | Munster Blackwater | Owentarraghglin | 112690 | 99298 | 6 | Medium | Medium | Medium | Medium | Medium | Low | Medium | Medium | Medium | Field ditch entering trib. View upstream going under bridge |
| 45 | Munster Blackwater | Owentarraghglin | 112690 | 99298 | 7 | Medium | Medium | Medium | Medium | Medium | Low | Medium | Medium | Medium | Ford - at bridge on main channel |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 45 | Munster Blackwater | Owentarraghglin | 112690 | 99298 | 8 | Medium | Medium | Medium | Medium | Medium | Low | Medium | Medium | Medium | Diesel oil in Ford |
| 45 | Munster Blackwater | Owentarraghglin | 112690 | 99298 | 9 | Medium | Medium | Medium | Medium | Medium | Low | Medium | Medium | Medium | Bridge structure |
| 47 | Munster Blackwater | Owenbaun river | 132814 | 92541 | 1 | Low | Medium | Medium | Low | Low | Low | Low | Medium | Medium | Storm outfall |
| 47 | Munster Blackwater | Owenbaun river | 132814 | 92541 | 2 | Low | Medium | Medium | Low | Low | Low | Low | Medium | Medium | |
| 47 | Munster Blackwater | Owenbaun river | 132814 | 92541 | 3 | Low | Medium | Medium | Low | Low | Low | Low | Medium | Medium | |
| 47 | Munster Blackwater | Owenbaun river | 132814 | 92541 | 4 | Low | Medium | Medium | Low | Low | Low | Low | Medium | Medium | |
| 47 | Munster Blackwater | Owenbaun river | 132814 | 92541 | 5 | Low | Medium | Medium | Low | Low | Low | Low | Medium | Medium | |
| 47 | Munster Blackwater | Owenbaun river | 132814 | 92541 | 6 | Low | Medium | Medium | Low | Low | Low | Low | Medium | Medium | |
| 47 | Munster Blackwater | Owenbaun river | 132814 | 92541 | 7 | Low | Medium | Medium | Low | Low | Low | Low | Medium | Medium | |
| 47 | Munster Blackwater | Owenbaun river | 132814 | 92541 | 8 | Low | Medium | Medium | Low | Low | Low | Low | Medium | Medium | |
| 48 | Munster Blackwater | Curraraigue River | 135084 | 92829 | 1 | Medium | Low | Low | Medium | Low | Low | Medium | Low | Medium | |
| 48 | Munster Blackwater | Curraraigue River | 135084 | 92829 | 2 | Medium | Low | Low | Medium | Low | Low | Medium | Low | Medium | |
| 48 | Munster Blackwater | Curraraigue River | 135084 | 92829 | 3 | Medium | Low | Low | Medium | Low | Low | Medium | Low | Medium | |
| 48 | Munster Blackwater | Curraraigue River | 135084 | 92829 | 4 | Medium | Low | Low | Medium | Low | Low | Medium | Low | Medium | |
| 49 | Munster Blackwater | Confluence of Rathcoo | 133468 | 93980 | 1 | Low | Medium | Medium | Medium | Low | Low | Medium | Medium | Medium | |
| 49 | Munster Blackwater | Confluence of Rathcoo | 133468 | 93980 | 2 | Low | Medium | Medium | Medium | Low | Low | Medium | Medium | Medium | |
| 49 | Munster Blackwater | Confluence of Rathcoo | 133468 | 93980 | 3 | Low | Medium | Medium | Medium | Low | Low | Medium | Medium | Medium | |
| 49 | Munster Blackwater | Confluence of Rathcoo | 133468 | 93980 | 4 | Low | Medium | Medium | Medium | Low | Low | Medium | Medium | Medium | |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 49 | Munster Blackwater | Confluence of Rathcoo | 133468 | 93980 | 5 | Low | Medium | Medium | Medium | Low | Low | Medium | Medium | Medium | |
| 49 | Munster Blackwater | Confluence of Rathcoo | 133468 | 93980 | 6 | Low | Medium | Medium | Medium | Low | Low | Medium | Medium | Medium | |
| 49 | Munster Blackwater | Confluence of Rathcoo | 133468 | 93980 | 7 | Low | Medium | Medium | Medium | Low | Low | Medium | Medium | Medium | |
| 51 | Munster Blackwater | Confluence of Funshio | 173789 | 111763 | 1 | High | High | Medium | Low | Low | Low | Low | High | High | |
| 51 | Munster Blackwater | Confluence of Funshio | 173789 | 111763 | 2 | High | High | Medium | Low | Low | Low | Low | High | High | |
| 51 | Munster Blackwater | Confluence of Funshio | 173789 | 111763 | 3 | High | High | Medium | Low | Low | Low | Low | High | High | |
| 51 | Munster Blackwater | Confluence of Funshio | 173789 | 111763 | 4 | High | High | Medium | Low | Low | Low | Low | High | High | |
| 51 | Munster Blackwater | Confluence of Funshio | 173789 | 111763 | 5 | High | High | Medium | Low | Low | Low | Low | High | High | |
| 51 | Munster Blackwater | Confluence of Funshio | 173789 | 111763 | 6 | High | High | Medium | Low | Low | Low | Low | High | High | |
| 51 | Munster Blackwater | Confluence of Funshio | 173789 | 111763 | 7 | High | High | Medium | Low | Low | Low | Low | High | High | |
| 52 | Munster Blackwater | Ahaphuca Bridge | 173881 | 116701 | 1 | Medium | High | High | Low | Low | Low | Low | High | High | |
| 52 | Munster Blackwater | Ahaphuca Bridge | 173881 | 116701 | 2 | Medium | High | High | Low | Low | Low | Low | High | High | |
| 52 | Munster Blackwater | Ahaphuca Bridge | 173881 | 116701 | 3 | Medium | High | High | Low | Low | Low | Low | High | High | |
| 52 | Munster Blackwater | Ahaphuca Bridge | 173881 | 116701 | 4 | Medium | High | High | Low | Low | Low | Low | High | High | |
| 52 | Munster Blackwater | Ahaphuca Bridge | 173881 | 116701 | 5 | Medium | High | High | Low | Low | Low | Low | High | High | |
| 52 | Munster Blackwater | Ahaphuca Bridge | 173881 | 116701 | 6 | Medium | High | High | Low | Low | Low | Low | High | High | |
| 53 | Munster Blackwater | Ahaphuca River | 174476 | 120069 | 1 | Medium | Medium | Medium | Low | Low | Low | Low | Medium | Medium | |
| 53 | Munster Blackwater | Ahaphuca River | 174476 | 120069 | 2 | Medium | Medium | Medium | Low | Low | Low | Low | Medium | Medium | |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 53 | Munster Blackwater | Ahaphuca River | 174476 | 120069 | 3 | Medium | Medium | Medium | Low | Low | Low | Low | Medium | Medium | |
| 53 | Munster Blackwater | Ahaphuca River | 174476 | 120069 | 4 | Medium | Medium | Medium | Low | Low | Low | Low | Medium | Medium | |
| 54 | Munster Blackwater | Funshion River | 180862 | 114858 | 1 | High | High | High | Low | Low | Low | Low | High | High | |
| 54 | Munster Blackwater | Funshion River | 180862 | 114858 | 2 | High | High | High | Low | Low | Low | Low | High | High | |
| 54 | Munster Blackwater | Funshion River | 180862 | 114858 | 3 | High | High | High | Low | Low | Low | Low | High | High | |
| 54 | Munster Blackwater | Funshion River | 180862 | 114858 | 4 | High | High | High | Low | Low | Low | Low | High | High | |
| 54 | Munster Blackwater | Funshion River | 180862 | 114858 | 5 | High | High | High | Low | Low | Low | Low | High | High | |
| 54 | Munster Blackwater | Funshion River | 180862 | 114858 | 6 | High | High | High | Low | Low | Low | Low | High | High | |
| 55 | Munster Blackwater | Funshion River | 185895 | 116124 | 1 | Low | Low | Low | Low | Low | Low | Low | Low | Low | |
| 55 | Munster Blackwater | Funshion River | 185895 | 116124 | 2 | Low | Low | Low | Low | Low | Low | Low | Low | Low | |
| 55 | Munster Blackwater | Funshion River | 185895 | 116124 | 3 | Low | Low | Low | Low | Low | Low | Low | Low | Low | |
| 55 | Munster Blackwater | Funshion River | 185895 | 116124 | 4 | Low | Low | Low | Low | Low | Low | Low | Low | Low | |
| 55 | Munster Blackwater | Funshion River | 185895 | 116124 | 5 | Low | Low | Low | Low | Low | Low | Low | Low | Low | |
| 55 | Munster Blackwater | Funshion River | 185895 | 116124 | 6 | Low | Low | Low | Low | Low | Low | Low | Low | Low | |
| 55 | Munster Blackwater | Funshion River | 185895 | 116124 | 7 | Low | Low | Low | Low | Low | Low | Low | Low | Low | |
| 56 | Munster Blackwater | Funshion River | 188975 | 116801 | 1 | Low | Medium | Medium | Low | Low | Low | Low | Medium | Low | |
| 56 | Munster Blackwater | Funshion River | 188975 | 116801 | 2 | Low | Medium | Medium | Low | Low | Low | Low | Medium | Low | |
| 56 | Munster Blackwater | Funshion River | 188975 | 116801 | 3 | Low | Medium | Medium | Low | Low | Low | Low | Medium | Low | |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 56 | Munster Blackwater | Funshion River | 188975 | 116801 | 4 | Low | Medium | Medium | Low | Low | Low | Low | Medium | Low | |
| 57 | Munster Blackwater | Funshion River | 182430 | 112939 | 1 | Low | Medium | Medium | Low | Low | Low | Low | Medium | Low | |
| 57 | Munster Blackwater | Funshion River | 182430 | 112939 | 2 | High | High | High | Low | Low | Low | Low | High | High | |
| 57 | Munster Blackwater | Funshion River | 182430 | 112939 | 3 | High | High | High | Low | Low | Low | Low | High | High | |
| 57 | Munster Blackwater | Funshion River | 182430 | 112939 | 4 | High | High | High | Low | Low | Low | Low | High | High | |
| 57 | Munster Blackwater | Funshion River | 182430 | 112939 | 5 | High | High | High | Low | Low | Low | Low | High | High | |
| 57 | Munster Blackwater | Funshion River | 182430 | 112939 | 6 | High | High | High | Low | Low | Low | Low | High | High | |
| 57 | Munster Blackwater | Funshion River | 182430 | 112939 | 7 | High | High | High | Low | Low | Low | Low | High | High | |
| 58 | Munster Blackwater | Funshion River | 177913 | 112604 | 1 | High | High | High | Low | Low | Low | Low | High | High | |
| 58 | Munster Blackwater | Funshion River | 177913 | 112604 | 2 | High | High | High | Low | Low | Low | Low | High | High | |
| 58 | Munster Blackwater | Funshion River | 177913 | 112604 | 3 | High | High | High | Low | Low | Low | Low | High | High | |
| 58 | Munster Blackwater | Funshion River | 177913 | 112604 | 4 | High | High | High | Low | Low | Low | Low | High | High | |
| 58 | Munster Blackwater | Funshion River | 177913 | 112604 | 5 | High | High | High | Low | Low | Low | Low | High | High | |
| 58 | Munster Blackwater | Funshion River | 177913 | 112604 | 6 | High | High | High | Low | Low | Low | Low | High | High | |
| 58 | Munster Blackwater | Funshion River | 177913 | 112604 | 7 | High | High | High | Low | Low | Low | Low | High | High | |
| 58 | Munster Blackwater | Funshion River | 177913 | 112604 | 8 | High | High | High | Low | Low | Low | Low | High | High | |
| 59 | Munster Blackwater | Trib of the Funshion | 177699 | 112630 | 1 | High | High | High | Low | Low | Low | Low | High | High | |
| 59 | Munster Blackwater | Trib of the Funshion | 177699 | 112630 | 2 | High | High | High | Low | Low | Low | Low | High | High | |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 59 | Munster Blackwater | Trib of the Funshion | 177699 | 112630 | 3 | High | High | High | Low | Low | Low | Low | High | High | |
| 59 | Munster Blackwater | Trib of the Funshion | 177699 | 112630 | 4 | High | High | High | Low | Low | Low | Low | High | High | |
| 60 | Munster Blackwater | Funshion River | 175891 | 106930 | 1 | High | High | High | Low | Low | Low | Low | High | High | |
| 60 | Munster Blackwater | Funshion River | 175891 | 106930 | 2 | High | High | High | Low | Low | Low | Low | High | High | |
| 60 | Munster Blackwater | Funshion River | 175891 | 106930 | 3 | High | High | High | Low | Low | Low | Low | High | High | |
| 61 | Munster Blackwater | | 179244 | 102993 | 1 | High | High | High | Low | Low | Low | Low | Medium | High | |
| 61 | Munster Blackwater | | 179244 | 102993 | 2 | High | High | High | Low | Low | Low | Low | Medium | High | |
| 62 | Munster Blackwater | Fermoy Towm | 181194 | 98576 | 1 | High | Medium | Medium | Low | High | Low | High | High | High | |
| 62 | Munster Blackwater | Fermoy Towm | 181194 | 98576 | 2 | High | Medium | Medium | Low | High | Low | High | High | High | |
| 62 | Munster Blackwater | Fermoy Towm | 181194 | 98576 | 3 | High | Medium | Medium | Low | High | Low | High | High | High | |
| 62 | Munster Blackwater | Fermoy Towm | 181194 | 98576 | 4 | High | Medium | Medium | Low | High | Low | High | High | High | |
| 62 | Munster Blackwater | Fermoy Towm | 181194 | 98576 | 5 | High | Medium | Medium | Low | High | Low | High | High | High | |
| 62 | Munster Blackwater | Fermoy Towm | 181194 | 98576 | 6 | High | Medium | Medium | Low | High | Low | High | High | High | |
| 62 | Munster Blackwater | Fermoy Towm | 181194 | 98576 | 7 | High | Medium | Medium | Low | High | Low | High | High | High | |
| 62 | Munster Blackwater | Fermoy Towm | 181194 | 98576 | 8 | High | Medium | Medium | Low | High | Low | High | High | High | |
| 63 | Munster Blackwater | Blackwater just outsi | 182526 | 99640 | 1 | Medium | Low | Low | Low | Low | Low | Low | Low | Medium | |
| 63 | Munster Blackwater | Blackwater just outsi | 182526 | 99640 | 2 | Medium | Low | Low | Low | Low | Low | Low | Low | Medium | |
| 63 | Munster Blackwater | Blackwater just outsi | 182526 | 99640 | 3 | Medium | Low | Low | Low | Low | Low | Low | Low | Medium | |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 64 | Munster Blackwater | Funshion River | 183462 | 100608 | 1 | Medium | High | High | Low | Low | Low | Low | Medium | High | |
| 64 | Munster Blackwater | Funshion River | 183462 | 100608 | 2 | Medium | High | High | Low | Low | Low | Low | Medium | High | |
| 64 | Munster Blackwater | Funshion River | 183462 | 100608 | 3 | Medium | High | High | Low | Low | Low | Low | Medium | High | |
| 64 | Munster Blackwater | Funshion River | 183462 | 100608 | 4 | Medium | High | High | Low | Low | Low | Low | Medium | High | |
| 65 | Munster Blackwater | Doughlas Bridge | 184746 | 102139 | 1 | Low | Medium | Low | Low | Low | Low | Low | Low | Medium | |
| 65 | Munster Blackwater | Doughlas Bridge | 184746 | 102139 | 2 | Low | Medium | Low | Low | Low | Low | Low | Low | Medium | |
| 65 | Munster Blackwater | Doughlas Bridge | 184746 | 102139 | 3 | Low | Medium | Low | Low | Low | Low | Low | Low | Medium | |
| 66 | Munster Blackwater | Coolmoohan Bridge | 188676 | 104674 | 1 | Medium | Medium | Low | Low | Low | Low | Low | Low | Medium | |
| 67 | Munster Blackwater | Araglin River | 194618 | 105977 | 1 | Medium | Medium | Medium | Low | Low | Low | Low | Medium | Medium | Looking upstream from bridge - slightly peaty stained |
| 67 | Munster Blackwater | Araglin River | 194618 | 105977 | 2 | Medium | Medium | Medium | Low | Low | Low | Low | Medium | Medium | Looking downstream from bridge |
| 67 | Munster Blackwater | Araglin River | 194618 | 105977 | 3 | Medium | Medium | Medium | Low | Low | Low | Low | Medium | Medium | Trampling of right bank, downstream |
| 67 | Munster Blackwater | Araglin River | 194662 | 105976 | 6 | Medium | Medium | Medium | Low | Low | Low | Low | Medium | Medium | Road drain |
| 67 | Munster Blackwater | Araglin River | 194633 | 105966 | 5 | Medium | Medium | Medium | Low | Low | Low | Low | Medium | Medium | Conifer plantation |
| 67 | Munster Blackwater | Araglin River | 194633 | 105966 | 6 | Medium | Medium | Medium | Low | Low | Low | Low | Medium | Medium | Conifer plantation |
| 68 | Munster Blackwater | Araglin River | 184525 | 102045 | 1 | High | High | High | Low | Low | Low | Low | High | High | Ford crossing under bridge looking upstream |
| 68 | Munster Blackwater | Araglin River | 184525 | 102045 | 2 | High | High | High | Low | Low | Low | Low | High | High | Ford crossing under bridge looking downstream |
| 68 | Munster Blackwater | Araglin River | 184525 | 102045 | 3 | High | High | High | Low | Low | Low | Low | High | High | Upstream under bridge |
| 68 | Munster Blackwater | Araglin River | 184525 | 102045 | 4 | High | High | High | Low | Low | Low | Low | High | High | Downstream under bridge |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 68 | Munster Blackwater | Araglin River | 184525 | 102045 | 5 | High | High | High | Low | Low | Low | Low | High | High | Vehicular tracks into main channel on left bank |
| 68 | Munster Blackwater | Araglin River | 184525 | 102045 | 6 | High | High | High | Low | Low | Low | Low | High | High | Vehicular tracks into main channel on right bank |
| 68 | Munster Blackwater | Araglin River | 187512 | 102012 | 7 | High | High | High | Low | Low | Low | Low | High | High | Construction upstream on right bank of trib |
| 68 | Munster Blackwater | Araglin River | 184525 | 102045 | 8 | High | High | High | Low | Low | Low | Low | High | High | Forestry on right bank of main channel |
| 0 | Munster Blackwater | | 187060 | 101849 | 1 | | | | | | | | | | Gas Pipeline construction works |
| 0 | Munster Blackwater | | 187060 | 101849 | 2 | | | | | | | | | | Gas Pipeline construction works |
| 0 | Munster Blackwater | | 187060 | 101849 | 3 | | | | | | | | | | Gas Pipeline construction works |
| 69 | Munster Blackwater | Blackwater - Ballyduf | 196484 | 99126 | 1 | Medium | Low | Medium | Low | Low | Low | Low | Medium | Medium | View upstream from bridge |
| 69 | Munster Blackwater | Blackwater - Ballyduf | 196484 | 99126 | 2 | Medium | Low | Medium | Low | Low | Low | Low | Medium | Medium | View downstream from bridge |
| 69 | Munster Blackwater | Blackwater - Ballyduf | 196485 | 99106 | 3 | Medium | Low | Medium | Low | Low | Low | Low | Medium | Medium | Gauging station downstream on right bank |
| 69 | Munster Blackwater | Blackwater - Ballyduf | 196469 | 99113 | 4 | Medium | Low | Medium | Low | Low | Low | Low | Medium | Medium | Bridge structure |
| 74 | Munster Blackwater | Nad River | 142683 | 91270 | 1 | Medium | High | Medium | Medium | Low | Low | Low | Medium | High | Looking upstream from bridge |
| 74 | Munster Blackwater | Nad River | 142683 | 91270 | 2 | Medium | High | Medium | Medium | Low | Low | Low | Medium | High | Looking downstream from bridge |
| 74 | Munster Blackwater | Nad River | 142683 | 91270 | 3 | Medium | High | Medium | Medium | Low | Low | Low | Medium | High | Unmanaged land drain on left bank just downstream of bridge |
| 74 | Munster Blackwater | Nad River | 142683 | 91270 | 4 | Medium | High | Medium | Medium | Low | Low | Low | Medium | High | Car park on right bank at bridge just downstream |
| 74 | Munster Blackwater | Nad River | 142683 | 91270 | 5 | Medium | High | Medium | Medium | Low | Low | Low | Medium | High | Looking downstream from 2nd bridge |
| 74 | Munster Blackwater | Nad River | 142774 | 91221 | 6 | Medium | High | Medium | Medium | Low | Low | Low | Medium | High | Looking upstream from 2nd bridge |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 74 | Munster Blackwater | Nad River | 142733 | 91300 | 7 | Medium | High | Medium | Medium | Low | Low | Low | Medium | High | Back of river confluence |
| 74 | Munster Blackwater | Nad River | 142733 | 91300 | 8 | Medium | High | Medium | Medium | Low | Low | Low | Medium | High | Looking downstream from confluence |
| 74 | Munster Blackwater | Nad River | 142733 | 91300 | 9 | Medium | High | Medium | Medium | Low | Low | Low | Medium | High | Black perforated pipe discharging |
| 74 | Munster Blackwater | Nad River | 142749 | 91324 | 10 | Medium | High | Medium | Medium | Low | Low | Low | Medium | High | Mid Western Treatment Plant on right bank of Nad River |
| 74 | Munster Blackwater | Nad River | 142749 | 91324 | 11 | Medium | High | Medium | Medium | Low | Low | Low | Medium | High | Mid Western Treatment Plant on right bank of Nad River |
| 74 | Munster Blackwater | Nad River | 142749 | 91324 | 12 | Medium | High | Medium | Medium | Low | Low | Low | Medium | High | Mid Western Treatment Plant on right bank of Nad River |
| 74 | Munster Blackwater | Nad River | 142732 | 91215 | 13 | Medium | High | Medium | Medium | Low | Low | Low | Medium | High | Storage yard for farm machinery & old cars piled up on left bank |
| 75 | Munster Blackwater | | 146407 | 96960 | 1 | | | | | | | | | | Looking upstream from road bridge |
| 75 | Munster Blackwater | | 146407 | 96960 | 2 | | | | | | | | | | Significant bridge apron underneath bridge |
| 75 | Munster Blackwater | | 146407 | 96960 | 3 | | | | | | | | | | Looking downstream from road bridge |
| 75 | Munster Blackwater | | 146407 | 96960 | 4 | | | | | | | | | | H.Balsam & J.Knotweed on right bank just upstream of bridge |
| 75 | Munster Blackwater | | 146407 | 96960 | 5 | | | | | | | | | | Scouring on both left & right bank due to bridge structure leading to loss of habitat |
| 75 | Munster Blackwater | | 146369 | 96713 | 6 | | | | | | | | | | Ford/cattle access |
| 75 | Munster Blackwater | | 146324 | 96868 | 7 | | | | | | | | | | Point where trib and main channel meet. H.Balsam on right bank |
| 75 | Munster Blackwater | | 146406 | 96921 | 8 | | | | | | | | | | Bridge Structure |
| 0 | Munster Blackwater | Irish Sugar Lands | 150558 | 97340 | 1 | | | | | | | | | | Significant site works along by right bank of main channel |
| 0 | Munster Blackwater | Irish Sugar Lands | 150558 | 97340 | 2 | | | | | | | | | | Significant site works along by right bank of main channel |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | Munster Blackwater | Irish Sugar Lands | 150558 | 97340 | 3 | | | | | | | | | | Significant site works along by right bank of main channel |
| 0 | Munster Blackwater | Irish Sugar Lands | 150558 | 97340 | 4 | | | | | | | | | | Lagoons being filled in, turning land back to greenfield site for farmland. Sugar factory also being dismantled. |
| 76 | Munster Blackwater | Lombardstown bridge | 151685 | 97593 | 1 | Low | Medium | Medium | Medium | Low | Low | Medium | Medium | Medium | Flood level at 1980 on bridge |
| 76 | Munster Blackwater | Lombardstown bridge | 151685 | 97593 | 2 | Low | Medium | Medium | Medium | Low | Low | Medium | Medium | Medium | Bridge structure showing significant apron underneath |
| 76 | Munster Blackwater | Lombardstown bridge | 151692 | 97598 | 3 | Low | Medium | Medium | Medium | Low | Low | Medium | Medium | Medium | Bank erosion on both left & right bank just downstream of bridge, exposed tree roots |
| 76 | Munster Blackwater | Lombardstown bridge | 151692 | 97598 | 4 | Low | Medium | Medium | Medium | Low | Low | Medium | Medium | Medium | Bank erosion on both left & right bank just downstream of bridge, exposed tree roots |
| 76 | Munster Blackwater | Lombardstown bridge | 151685 | 97593 | 5 | Low | Medium | Medium | Medium | Low | Low | Medium | Medium | Medium | Fencing on right bank where behind it appears to be where flood rises to |
| 76 | Munster Blackwater | Lombardstown bridge | 151763 | 97609 | 6 | Low | Medium | Medium | Medium | Low | Low | Medium | Medium | Medium | Mid channel bar - Salix sp. & H.Balsam on top |
| 76 | Munster Blackwater | Lombardstown bridge | 151685 | 97593 | 7 | Low | Medium | Medium | Medium | Low | Low | Medium | Medium | Medium | Silt plume - a lot of suspended solids |
| 76 | Munster Blackwater | Lombardstown bridge | 152152 | 97480 | 8 | Low | Medium | Medium | Medium | Low | Low | Medium | Medium | Medium | Incoming tributary at end point joining on right bank |
| 76 | Munster Blackwater | Lombardstown bridge | 151685 | 97593 | 9 | Low | Medium | Medium | Medium | Low | Low | Medium | Medium | Medium | Heavy siltation and depositing of load at confluence of main channel & trib |
| 76 | Munster Blackwater | Lombardstown bridge | 152148 | 97480 | 10 | Low | Medium | Medium | Medium | Low | Low | Medium | Medium | Medium | Ranunculus growth on right bank not excessive |
| 77 | Munster Blackwater | Mallow - centre of to | 156140 | 98009 | 1 | High | Medium | Medium | Medium | Medium | Low | Medium | Medium | High | Munster Blackwater Mallow North Drainage Scheme |
| 77 | Munster Blackwater | Mallow - centre of to | 156140 | 98009 | 2 | High | Medium | Medium | Medium | Medium | Low | Medium | Medium | High | OPW Drainage Scheme, widened channel |
| 77 | Munster Blackwater | Mallow - centre of to | 156140 | 98009 | 3 | High | Medium | Medium | Medium | Medium | Low | Medium | Medium | High | Embanked on left bank at bridge upstream & downstream |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 77 | Munster Blackwater | Mallow - centre of to | 156140 | 98009 | 4 | High | Medium | Medium | Medium | Medium | Low | Medium | Medium | High | Ranunculus growth on left bank upstream of bridge |
| 77 | Munster Blackwater | Mallow - centre of to | 156140 | 98009 | 5 | High | Medium | Medium | Medium | Medium | Low | Medium | Medium | High | Mid Channel Island view from bridge indicates deposition |
| 77 | Munster Blackwater | Mallow - centre of to | 156140 | 98009 | 6 | High | Medium | Medium | Medium | Medium | Low | Medium | Medium | High | OPW bank works on left bank upstream of bridge |
| 77 | Munster Blackwater | Mallow - centre of to | 156138 | 98067 | 7 | High | Medium | Medium | Medium | Medium | Low | Medium | Medium | High | Geotextile used to stabilise new embankment |
| 77 | Munster Blackwater | Mallow - centre of to | 155961 | 98088 | 8 | High | Medium | Medium | Medium | Medium | Low | Medium | Medium | High | Newly sectioned left bank with fencing |
| 77 | Munster Blackwater | Mallow - centre of to | 155961 | 98088 | 9 | High | Medium | Medium | Medium | Medium | Low | Medium | Medium | High | Newly sectioned left bank with fencing |
| 77 | Munster Blackwater | Mallow - centre of to | 155961 | 98088 | 10 | High | Medium | Medium | Medium | Medium | Low | Medium | Medium | High | Newly sectioned left bank with fencing |
| 77 | Munster Blackwater | Mallow - centre of to | 155665 | 98091 | 11 | High | Medium | Medium | Medium | Medium | Low | Medium | Medium | High | End of fencing & resectioning |
| 77 | Munster Blackwater | Mallow - centre of to | 155605 | 98133 | 12 | High | Medium | Medium | Medium | Medium | Low | Medium | Medium | High | Looking upstream from left bank, high banks |
| 77 | Munster Blackwater | Mallow - centre of to | 155605 | 98133 | 13 | High | Medium | Medium | Medium | Medium | Low | Medium | Medium | High | Looking upstream on trib which enters main channel on left bank |
| 77 | Munster Blackwater | Mallow - centre of to | 155568 | 98074 | 14 | High | Medium | Medium | Medium | Medium | Low | Medium | Medium | High | Looking downstream on trib which enters main channel on left bank |
| 77 | Munster Blackwater | Mallow - centre of to | 155568 | 98074 | 15 | High | Medium | Medium | Medium | Medium | Low | Medium | Medium | High | Significant discharge on left bank |
| 77 | Munster Blackwater | Mallow - centre of to | 155566 | 98074 | 16 | High | Medium | Medium | Medium | Medium | Low | Medium | Medium | High | Storm drain on right bank |
| 77 | Munster Blackwater | Mallow - centre of to | 155566 | 98074 | 17 | High | Medium | Medium | Medium | Medium | Low | Medium | Medium | High | Slumping & erosion on right bank |
| 77 | Munster Blackwater | Mallow - centre of to | 155216 | 97934 | 18 | High | Medium | Medium | Medium | Medium | Low | Medium | Medium | High | Rinforced tow on right bank |
| 77 | Munster Blackwater | Mallow - centre of to | 155162 | 97912 | 19 | High | Medium | Medium | Medium | Medium | Low | Medium | Medium | High | Discharge on right bank just at bridge |
| 77 | Munster Blackwater | Mallow - centre of to | 155089 | 97908 | 20 | High | Medium | Medium | Medium | Medium | Low | Medium | Medium | High | Railway piers reinforced due to erodability of river |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 77 | Munster Blackwater | Mallow - centre of to | 155035 | 98001 | 21 | High | Medium | Medium | Medium | Medium | Low | Medium | Medium | High | View from left bank. H.Baslsam on right bank - arable land behind |
| 78 | Munster Blackwater | Around Mallow racecou | 154305 | 98268 | 1 | Medium | Medium | Medium | Low | Low | Low | Low | Medium | Medium | View across river from crop field |
| 78 | Munster Blackwater | Around Mallow racecou | 154305 | 98268 | 2 | Medium | Medium | Medium | Low | Low | Low | Low | Medium | Medium | Arable crop on left bank |
| 78 | Munster Blackwater | Around Mallow racecou | 154305 | 98268 | 3 | Medium | Medium | Medium | Low | Low | Low | Low | Medium | Medium | View upstream |
| 78 | Munster Blackwater | Around Mallow racecou | 152946 | 97373 | 4 | Medium | Medium | Medium | Low | Low | Low | Low | Medium | Medium | Along back of racecourse grass clippings dumped on left bank. No buffer with race course, possible source of nut |
| 78 | Munster Blackwater | Around Mallow racecou | 153190 | 97396 | 5 | Medium | Medium | Medium | Low | Low | Low | Low | Medium | Medium | Small scale abstraction for watering racecourse prior to meetings maintained by EPS |
| 78 | Munster Blackwater | Around Mallow racecou | 153266 | 97556 | 6 | Medium | Medium | Medium | Low | Low | Low | Low | Medium | Medium | Left bank has been infilled along stretch of Clyda area |
| 78 | Munster Blackwater | Around Mallow racecou | 153980 | 97589 | 7 | Medium | Medium | Medium | Low | Low | Low | Low | Medium | Medium | Clyda bridge looking upstream from road bridge |
| 78 | Munster Blackwater | Around Mallow racecou | 153266 | 97556 | 8 | Medium | Medium | Medium | Low | Low | Low | Low | Medium | Medium | Improved grassland on right bank upstream of bridge |
| 78 | Munster Blackwater | Around Mallow racecou | 153266 | 97556 | 9 | Medium | Medium | Medium | Low | Low | Low | Low | Medium | Medium | Looking downstream from Clyda bridge |
| 78 | Munster Blackwater | Around Mallow racecou | 153266 | 97556 | 10 | Medium | Medium | Medium | Low | Low | Low | Low | Medium | Medium | View of bridge from road on right bank |
| 78 | Munster Blackwater | Around Mallow racecou | 153974 | 97543 | 11 | Medium | Medium | Medium | Low | Low | Low | Low | Medium | Medium | High left bank, high wall on right bank |
| 79 | Munster Blackwater | Kilavullen Bridge | 164776 | 99756 | 1 | Low | Medium | Medium | Medium | Low | Low | Medium | Medium | Medium | Looking upstream from road bridge |
| 79 | Munster Blackwater | Kilavullen Bridge | 164776 | 99756 | 2 | Low | Medium | Medium | Medium | Low | Low | Medium | Medium | Medium | Reinforced right bank downstream of bridge |
| 79 | Munster Blackwater | Kilavullen Bridge | 164776 | 99756 | 3 | Low | Medium | Medium | Medium | Low | Low | Medium | Medium | Medium | Looking downstream of bridge |
| 79 | Munster Blackwater | Kilavullen Bridge | 164776 | 99756 | 4 | Low | Medium | Medium | Medium | Low | Low | Medium | Medium | Medium | Flood level at 1980 on bridge |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 79 | Munster Blackwater | Kilavullen Bridge | 164746 | 99776 | 5 | Low | Medium | Medium | Medium | Low | Low | Medium | Medium | Medium | Staff gauges x 2 on left bank at bridge |
| 79 | Munster Blackwater | Kilavullen Bridge | 164746 | 99776 | 6 | Low | Medium | Medium | Medium | Low | Low | Medium | Medium | Medium | Reinforced piers |
| 79 | Munster Blackwater | Kilavullen Bridge | 164746 | 99776 | 7 | Low | Medium | Medium | Medium | Low | Low | Medium | Medium | Medium | Large rock outcrop on right bank |
| 0 | | | 164715 | 99748 | 8 | Low | Medium | Medium | Medium | Low | Low | Medium | Medium | Medium | Looking upstream from left bank |
| 0 | | | 164715 | 99748 | 9 | Low | Medium | Medium | Medium | Low | Low | Medium | Medium | Medium | Rock outcrop on right bank |
| 79 | Munster Blackwater | Kilavullen Bridge | 164715 | 99748 | 10 | Low | Medium | Medium | Medium | Low | Low | Medium | Medium | Medium | Bridge structure |
| 79 | Munster Blackwater | Kilavullen Bridge | 164545 | 99739 | 11 | Low | Medium | Medium | Medium | Low | Low | Medium | Medium | Medium | Reinforced on left bank |
| 79 | Munster Blackwater | Kilavullen Bridge | 164545 | 99739 | 12 | Low | Medium | Medium | Medium | Low | Low | Medium | Medium | Medium | Mid Channel Island |
| 79 | Munster Blackwater | Kilavullen Bridge | 164545 | 99756 | 13 | Low | Medium | Medium | Medium | Low | Low | Medium | Medium | Medium | Fallen trees on right bank |
| 79 | Munster Blackwater | Kilavullen Bridge | 164249 | 99729 | 14 | Low | Medium | Medium | Medium | Low | Low | Medium | Medium | Medium | Looking downstream at end point of survey |
| 0 | Munster Blackwater | | 159988 | 98669 | 1 | | | | | | | | | | Major Quarry downstream of Mallow |
| 0 | Munster Blackwater | | 159988 | 98669 | 2 | | | | | | | | | | Major Quarry downstream of Mallow |
| 0 | Munster Blackwater | | 159988 | 98669 | 3 | | | | | | | | | | Major Quarry downstream of Mallow |
| 0 | Munster Blackwater | | 159988 | 98669 | 4 | | | | | | | | | | Major Quarry downstream of Mallow |
| 0 | Munster Blackwater | | 159473 | 99149 | 1 | | | | | | | | | | Very steep banks along stretch |
| 0 | Munster Blackwater | | 159473 | 99149 | 2 | | | | | | | | | | Clear evidence of disturbance on both banks. |
| 0 | Munster Blackwater | | 159473 | 99149 | 3 | | | | | | | | | | H.Balsam on both banks, with trampling from fishermen possible |
| 80 | Munster Blackwater | Ashgrove | 154754 | 100330 | 1 | High | High | High | Low | High | Low | Low | High | High | Downstream from bridge |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 80 | Munster Blackwater | Ashgrove | 154754 | 100330 | 2 | High | High | High | Low | High | Low | Low | High | High | Upstream from bridge, large stands of Gunnera & reinforced bank |
| 80 | Munster Blackwater | Ashgrove | 154754 | 100330 | 3 | High | High | High | Low | High | Low | Low | High | High | Pipe culvert upstream on right bank |
| 80 | Munster Blackwater | Ashgrove | 154754 | 100330 | 4 | High | High | High | Low | High | Low | Low | High | High | Trampling across channel |
| 80 | Munster Blackwater | Ashgrove | 154754 | 100330 | 5 | High | High | High | Low | High | Low | Low | High | High | Bridge structure |
| 80 | Munster Blackwater | Ashgrove | 154754 | 100330 | 6 | High | High | High | Low | High | Low | Low | High | High | Inflowing perforated pipe |
| 81 | Munster Blackwater | Clyda River, Jordan's | 157196 | 91910 | 1 | Low | Medium | Medium | Low | Medium | Low | Low | Medium | Medium | Dry road drain, upstream on right bank |
| 81 | Munster Blackwater | Clyda River, Jordan's | 157196 | 91910 | 2 | Low | Medium | Medium | Low | Medium | Low | Low | Medium | Medium | Looking upstream from bridge |
| 81 | Munster Blackwater | Clyda River, Jordan's | 157196 | 91910 | 3 | Low | Medium | Medium | Low | Medium | Low | Low | Medium | Medium | Looking downstream from bridge |
| 81 | Munster Blackwater | Clyda River, Jordan's | 157196 | 91910 | 4 | Low | Medium | Medium | Low | Medium | Low | Low | Medium | Medium | Gauging Station |
| 81 | Munster Blackwater | Clyda River, Jordan's | 157196 | 91910 | 5 | Low | Medium | Medium | Low | Medium | Low | Low | Medium | Medium | Forestry on the opposite side of the road on right bank |
| 82 | Munster Blackwater | Ballyknockanel Bridge | 158005 | 89875 | 1 | Low | High | Medium | Medium | Low | Low | Low | Medium | High | View upstream from bridge |
| 82 | Munster Blackwater | Ballyknockanel Bridge | 158005 | 89875 | 2 | Low | High | Medium | Medium | Low | Low | Low | Medium | High | Farm upstream on left bank, silo tank & topped conifer trees in background |
| 82 | Munster Blackwater | Ballyknockanel Bridge | 158005 | 89875 | 3 | Low | High | Medium | Medium | Low | Low | Low | Medium | High | Downstream from ridge, overhanging vegetation |
| 82 | Munster Blackwater | Ballyknockanel Bridge | 157879 | 89869 | 4 | Low | High | Medium | Medium | Low | Low | Low | Medium | High | Appears to be a slurry tank abstraction pipe in tributary on left bank |
| 82 | Munster Blackwater | Ballyknockanel Bridge | 157979 | 89869 | 5 | Low | High | Medium | Medium | Low | Low | Low | Medium | High | Appears to be a slurry tank abstraction pipe in tributary on left bank |
| 83 | Munster Blackwater | Machanna Bridge | 153126 | 87462 | 1 | High | High | Medium | Low | Medium | Low | Low | Medium | High | Upstream from bridge showing gate on right bank |
| 83 | Munster Blackwater | Machanna Bridge | 153126 | 87462 | 2 | High | High | Medium | Low | Medium | Low | Low | Medium | High | Downstream from bridge |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 83 | Munster Blackwater | Machanna Bridge | 153126 | 87462 | 3 | High | High | Medium | Low | Medium | Low | Low | Medium | High | Storm drain on right bank |
| 83 | Munster Blackwater | Machanna Bridge | 153126 | 87462 | 4 | High | High | Medium | Low | Medium | Low | Low | Medium | High | Storm drain on left bank |
| 0 | Munster Blackwater | | 152552 | 90605 | 1 | | | | | | | | | | Quarry photographs |
| 0 | | | 152552 | 90605 | 2 | | | | | | | | | | Quarry photographs |
| 0 | | | 152552 | 90605 | 3 | | | | | | | | | | Quarry photographs |
| 0 | | | 152552 | 90605 | 4 | | | | | | | | | | Quarry photographs |
| 0 | | | 152552 | 90605 | 5 | | | | | | | | | | Quarry photographs |
| 0 | Munster Blackwater | | 159655 | 1190 | 1 | | | | | | | | | | Entrance to John Woods Quarry in Mallow |
| 84 | Munster Blackwater | Ballyhooley - Blackwa | 172898 | 98721 | 1 | Medium | Medium | Medium | Medium | Medium | Low | Medium | Medium | Medium | Looking downstream from road bridge |
| 84 | Munster Blackwater | Ballyhooley - Blackwa | 172898 | 98721 | 2 | Medium | Medium | Medium | Medium | Medium | Low | Medium | Medium | Medium | Significant bridge apron underneath bridge |
| 84 | Munster Blackwater | Ballyhooley - Blackwa | 172898 | 98721 | 3 | Medium | Medium | Medium | Medium | Medium | Low | Medium | Medium | Medium | Reinforcement for bridge on right bank just downstream of bridge |
| 84 | Munster Blackwater | Ballyhooley - Blackwa | 172898 | 98721 | 4 | Medium | Medium | Medium | Medium | Medium | Low | Medium | Medium | Medium | Gabion baskets on left bank at bridge |
| 84 | Munster Blackwater | Ballyhooley - Blackwa | 172898 | 98721 | 5 | Medium | Medium | Medium | Medium | Medium | Low | Medium | Medium | Medium | Looking upstream from bridge |
| 84 | Munster Blackwater | Ballyhooley - Blackwa | 172898 | 98721 | 6 | Medium | Medium | Medium | Medium | Medium | Low | Medium | Medium | Medium | Scouring at left bank at bridge just downstream |
| 84 | Munster Blackwater | Ballyhooley - Blackwa | 172898 | 98721 | 7 | Medium | Medium | Medium | Medium | Medium | Low | Medium | Medium | Medium | Improved Grassland landuse |
| 84 | Munster Blackwater | Ballyhooley - Blackwa | 172898 | 98721 | 8 | Medium | Medium | Medium | Medium | Medium | Low | Medium | Medium | Medium | Reinforced right bank approx. 20m downstream from bridge |
| 84 | Munster Blackwater | Ballyhooley - Blackwa | 172928 | 98766 | 9 | Medium | Medium | Medium | Medium | Medium | Low | Medium | Medium | Medium | Tide flex valve on left bank at bridge |
| 84 | Munster Blackwater | Ballyhooley - Blackwa | 172998 | 98532 | 10 | Medium | Medium | Medium | Medium | Medium | Low | Medium | Medium | Medium | Ford crossing |
| 84 | Munster Blackwater | Ballyhooley - Blackwa | 172998 | 98532 | 11 | Medium | Medium | Medium | Medium | Medium | Low | Medium | Medium | Medium | Ford crossing |
| 84 | Munster Blackwater | Ballyhooley - Blackwa | 172998 | 98532 | 12 | Medium | Medium | Medium | Medium | Medium | Low | Medium | Medium | Medium | Downstream from Ford |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 84 | Munster Blackwater | Ballyhooley - Blackwa | 172998 | 98532 | 13 | Medium | Medium | Medium | Medium | Medium | Low | Medium | Medium | Medium | Upstream from Ford |
| 84 | Munster Blackwater | Ballyhooley - Blackwa | 172898 | 98721 | 14 | Medium | Medium | Medium | Medium | Medium | Low | Medium | Medium | Medium | Slurry spreading on right bank in field set back approx. 20m from bank |
| 85 | Munster Blackwater | | 177743 | 98416 | 1 | Medium | Medium | Medium | Medium | Low | Low | Low | Medium | Medium | View upstream from start point |
| 85 | Munster Blackwater | | 177743 | 98416 | 2 | Medium | Medium | Medium | Medium | Low | Low | Low | Medium | Medium | Vew downstream |
| 85 | Munster Blackwater | | 177743 | 98416 | 3 | Medium | Medium | Medium | Medium | Low | Low | Low | Medium | Medium | View across river to opposite bank |
| 85 | Munster Blackwater | | 177743 | 98416 | 4 | Medium | Medium | Medium | Medium | Low | Low | Low | Medium | Medium | Small are of cattle poaching |
| 86 | Munster Blackwater | | 186417 | 99572 | 1 | Low | Medium | Medium | Medium | Low | Low | Low | Medium | Medium | Significant poaching, trampling on drainage channel which runs parallel to main channel of Munster Blackwater |
| 86 | Munster Blackwater | | 186417 | 99572 | 2 | Low | Medium | Medium | Medium | Low | Low | Low | Medium | Medium | Gas Pipeline construction works |
| 86 | Munster Blackwater | | 186417 | 99572 | 3 | Low | Medium | Medium | Medium | Low | Low | Low | Medium | Medium | Concrete settlement ponds |
| 86 | Munster Blackwater | | 186417 | 99572 | 4 | Low | Medium | Medium | Medium | Low | Low | Low | Medium | Medium | Pipeline construction on other side of river |
| 86 | Munster Blackwater | | 186417 | 99572 | 5 | Low | Medium | Medium | Medium | Low | Low | Low | Medium | Medium | Signage for building site |
| 86 | Munster Blackwater | | 186417 | 99572 | 6 | Low | Medium | Medium | Medium | Low | Low | Low | Medium | Medium | View downstream from pipeline access point |
| 86 | Munster Blackwater | | 186417 | 99572 | 7 | Low | Medium | Medium | Medium | Low | Low | Low | Medium | Medium | View upstream from pipeline access point |
| 86 | Munster Blackwater | | 186417 | 99572 | 8 | Low | Medium | Medium | Medium | Low | Low | Low | Medium | Medium | Concrete settlement pond overflow |
| 86 | Munster Blackwater | | 186417 | 99572 | 9 | Low | Medium | Medium | Medium | Low | Low | Low | Medium | Medium | Bord Gaid Signage R666 |
| 0 | Munster Blackwater | | 115881 | 102385 | 1 | | | | | | | | | | Old abstraction pressure/Quarry |
| 0 | Munster Blackwater | | 119875 | 105077 | 1 | | | | | | | | | | Looking upstream from road bridge,very erodable, lowland |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | meandering river |
| 0 | Munster Blackwater | | 119875 | 105077 | 2 | | | | | | | | | | Outside of meander on right bank are extensively undercut with slumps evident |
| 0 | Munster Blackwater | | 119875 | 105077 | 6 | | | | | | | | | | Erosion & deposition on left & right bank respecitively |
| 0 | Munster Blackwater | | 119875 | 105077 | 4 | | | | | | | | | | Erosion & deposition on left & right bank respecitively |
| 0 | Munster Blackwater | | 119875 | 105077 | 5 | | | | | | | | | | Erosion & deposition on left & right bank respecitively |
| 0 | Munster Blackwater | | 126444 | 114710 | 1 | | | | | | | | | | Clear felled area on right bank |
| 0 | | | 0 | 0 | 2 | | | | | | | | | | Clear felled right up to bank |
| 0 | | | 0 | 0 | 3 | | | | | | | | | | Channel with excessive trampling on left bank upstream of bridge |
| 0 | | | 0 | 0 | 4 | | | | | | | | | | Overview of clear felled area upstream on right bank |

## Appendix 3 – Catchment Walkover Risk Assessment Survey Sheet

| Sheet 1: Catchment Walkovers | Version 1. 07/04/2009 |
|---|---|
| Tributary/Main Channel* | |
| **Site Identification** | |
| River Name | Site Code |
| Water Body ID | Start U/S or D/S* |
| First site IGR | Last site IGR |
| Bank surveyed from L/R/In-channel* | |
| **Photograph details include IGR or approximate location.** | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |

* Select as appropriate

| | Present? | | | | | |
|---|---|---|---|---|---|---|
| | Yes | No | | Grid Reference of specific pressure | No.of Photographs | Comments |
| Source of Erosion | | | | | | |
| Bank erosion | | | | | | |
| Land clearance | | | | | | |
| In river clearance | | | | | | |
| Arable ploughing | | | | | | |
| Animal trampling | | | | | | |
| Fords | | | | | | |
| Channel manipulation | | | | | | |
| Hard bank protection measures | | | | | | |
| Other sources | | | | | | |
| | | | | | | |
| | | | | | | |
| Overall Risk | High | Medium | Low | | | |
| | | | | | | |
| | | | | | | |
| Diffuse Nutrient | | | | | | |
| Arable | | | | | | |
| Grazing | | | | | | |
| Improved grassland | | | | | | |
| Silage | | | | | | |
| Forestry | | | | | | |
| Housing | | | | | | |
| Industry and associated works | | | | | | |
| Other sources | | | | | | |
| | | | | | | |
| Overall Risk | High | Medium | Low | | | |
| | | | | | | |
| Diffuse Silt | | | | | | |
| Arable | | | | | | |
| Grazing | | | | | | |
| Over-grazing | | | | | | |
| Improved grassland (Re-seeding) | | | | | | |
| Forest | | | | | | |
| Silage | | | | | | |
| Industry | | | | | | |
| Construction stages | | | | | | |
| Housing | | | | | | |
| Infilling | | | | | | |
| Peat cutting | | | | | | |
| Quarries | | | | | | |
| Other sources | | | | | | |
| | | | | | | |
| Overall Risk | High | Medium | Low | | | |
| | | | | | | |

| | Present? | | | | | |
|---|---|---|---|---|---|---|
| | Yes | No | | Grid Reference of specific pressure | No.of Photographs | Comments |
| Current Riparian Zone | | | | | | |
| Fencing | | | | | | |
| Buffer | | | | | | |
| Tree line at bank | | | | | | |
| Tree line buffer | | | | | | |
| Plantation with no buffer | | | | | | |
| Urbanisation | | | | | | |
| Flood protection | | | | | | |
| Marshy land | | | | | | |
| Landuse at bank | | | | | | |
| Other sources | | | | | | |
| | | | | | | |
| Overall Risk | High | Medium | Low | | | |
| | | | | | | |
| Field Drainage | | | | | | |
| Ditch managed | | | | | | |
| Ditch unmanaged | | | | | | |
| Drainage on high slope | | | | | | |
| Drainage on low slope | | | | | | |
| Land drainage (perforated pipes) | | | | | | |
| Other sources | | | | | | |
| | | | | | | |
| Overall Risk | High | Medium | Low | | | |
| | | | | | | |
| Outfalls | | | | | | |
| Industrial discharges | | | | | | |
| Storm drains | | | | | | |
| Culvert outfalls | | | | | | |
| Other sources | | | | | | |
| | | | | | | |
| Overall Risk | High | Medium | Low | | | |
| | | | | | | |
| Abstractions | | | | | | |
| Small | | | | | | |
| Large | | | | | | |
| | | | | | | |
| Overall Risk | High | Medium | Low | | | |
| | | | | | | |
| Barriers to migration | | | | | | |
| Culverts | | | | | | |
| Bridge aprons | | | | | | |
| Weirs | | | | | | |
| Stone weirs | | | | | | |
| Other sources | | | | | | |
| | | | | | | |
| | | | | | | |
| Overall Risk | High | Medium | Low | | | |
| | | | | | | |