

# **Bord na Móna**

## **Enhanced Decommissioning Rehabilitation and Restoration Scheme (EDRRS)**

**Quarterly Report – Bord Na Mona Q3FY22  
(October 2021 to December 2021)**



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## 1. Summary

At the commencement of this quarter in September 2021, rehabilitation had commenced on sixteen bogs and by the end of the quarter rehabilitation was ongoing on seventeen bogs and completed on one bog.

As set out in the previous Quarterly Report, rehabilitation commenced on these bogs later than was originally planned and this will have an impact on the rehabilitation measures that can be completed in this Bord na Móna financial year (to end of March 2022- FY22).

[REDACTED]

As stated in the previous report, it is envisaged that any shortfall in the FY22 (2021) rehabilitation target will be recovered and will not impact on the overall scheme.

The following table sets out the key metrics for this quarter and compares these with the EDRRS Financial Model.

Table below redacted 'Article 9 (1) (c) commercial or industrial confidentiality, where such confidentiality is provided for in national or Community law to protect a legitimate economic interest.'

Table 1.1: Key metrics (FY22Q3 period - Sept to Dec 2021)

The total area to be rehabilitated in the FY22 (Year 1) bogs is 8,761 hectares. The area rehabilitated at the end of this quarter was 5,196 hectares which is 59% of the total area to be rehabilitated in the nineteen FY22 (Year 1) bogs. The Work Content completed at the end of the quarter was 69.5% of the Work Content for the nineteen FY22 (2021) bogs.

[REDACTED]
[REDACTED]
[REDACTED]

[REDACTED]

Decommissioning of rail line and bog clean-up is progressing in line with expectations.



Table below redacted 'Article 9 (1) (c ) commercial or industrial confidentiality, where such confidentiality is provided for in national or Community law to protect a legitimate economic interest.'

Table 2.1 Rehabilitation to End December 2021 (Q3FY22 refers to period October to December 2021)

Table below redacted 'Article 9 (1) (c ) commercial or industrial confidentiality, where such confidentiality is provided for in national or Community law to protect a legitimate economic interest.'

Table 2.2 Rehabilitation measures completed to date

### 2.1 Areas for Rehabilitation

As set out above, the *Total Area Rehabilitated* consists of areas where specific rehabilitation measures have been carried out and also includes areas where rehabilitation measures are either not possible or not required (designated MLT1 or AW1). There are a number of reasons as to why no rehabilitation measures are proposed for these MLT1 and AW1 areas and these include the following:

- Areas where there are no drains to block;
- Inactive turf-cutting areas where third party turbary rights may exist;
- Narrow strips of lands around the boundaries of the bog that are densely vegetated;
- Area adjacent to drains/streams that need to be retained to provide drainage to third party lands;
- Areas that are vegetated where rehabilitation measures are not considered necessary or beneficial.

A column is included in Table 2.1 (*Total Area Rehabilitated with Specific Measures*) identifying the areas where specific rehabilitation measures have been carried out which excludes the MLT1 and AW1 areas. As set out in the previous Quarterly report, areas identified as *Constrained* or *Other Areas* in the Bog Rehabilitation Maps are excluded from this table and not reported on.


The total area rehabilitated at the end of the quarter (end December 2021) was **5,196 hectares**.

## 2.2 Work Content

As set out in the previous report, while the number of hectares rehabilitated can be considered when assessing the progress of the rehabilitation measures, the intensity of the work carried out varies depending on the rehabilitation method completed in these hectares. In order to take account of this, the *Work Content Completed to Date* column is included in the above table. This takes account of the variation in the intensity of work required for each methodology and it also takes account of additional measures such as berms or drains included in the individual cost estimates.

The percentage of work content completed is therefore a more accurate measure of the progress of the scheme than the hectares rehabilitated.

## 2.3 Sphagnum Inoculation and Fertiliser Application

Some of the rehabilitation measures include a provision for *Sphagnum* inoculation and fertiliser spreading and due to their seasonal nature, it is not possible to carry out these measures within the Bord na Móna financial year when the rehabilitation is being carried out.



## 2.4 Progress to Date

As set out above significant progress has been made during this quarter with **69.5%** of the Work Content for this year (FY22) completed by the end of the quarter. At the start of this quarter 40.7% of this work content had been completed.

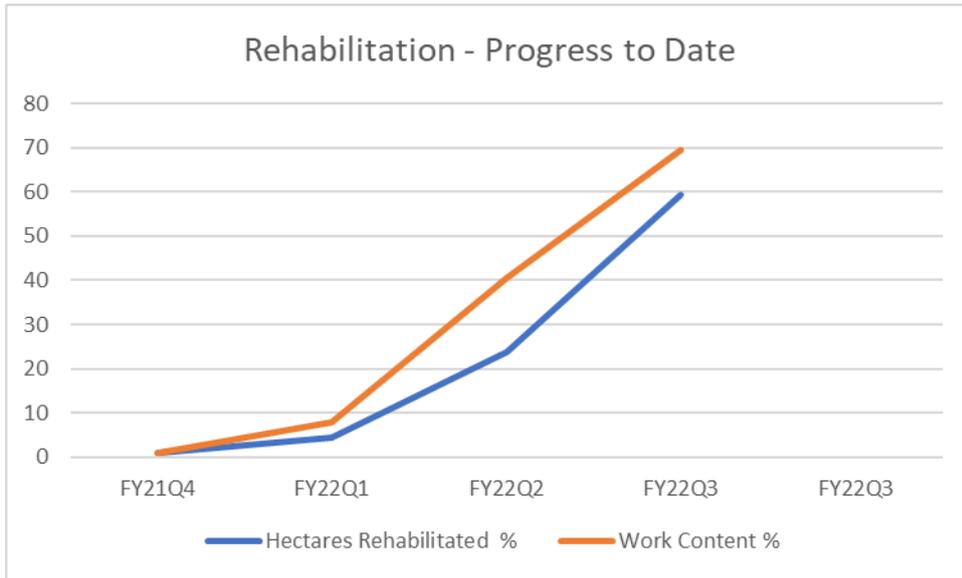


Figure 2.1 Rehabilitation and Work Content to Date

The area rehabilitated at the end of the quarter was **5,196 hectares** which is **59%** of the total area to be rehabilitated in the nineteen FY22 (Year 1) bogs.

[Redacted text block]

[Redacted text block]

As stated in the previous quarterly report, it is considered likely that it will not be possible to complete all of this year's planned rehabilitation in the winter months. This is due to expected limitations on rehabilitation during the winter months resulting from adverse weather conditions, bog ground conditions, higher ground water levels and winter ecological restrictions.

[Redacted text block]

As stated in the previous report, any reduction in the rehabilitation completed in this first year will be recovered over the lifetime of the scheme.

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### 3. Rehabilitation Costs by Bog

[Redacted]

[Redacted]

- [Redacted]
- [Redacted]
- [Redacted]

[Redacted]

[Redacted]

#### 3.1 Costs to Date

[Redacted]

[Redacted]

[Redacted]

[Redacted]

Table below redacted 'Article 9 (1) (c ) commercial or industrial confidentiality, where such confidentiality is provided for in national or Community law to protect a legitimate economic interest.'

Table 3.1 Rehabilitation Costs by Bog

#### 4. Decommissioning by Area

The decommissioning completed in this quarter is set out by percentage in Table 4.1 below.

The percentage completed is calculated as a percentage of the quantity included in the original EDRRS Financial Model across all 82 bogs.

Activity Description	% of Overall Scheme Completed in Q3FY22 (Oct to Dec 2021)	% of Overall Scheme Completed to date
Pump Decomm	0	0
Septic Tank Decomm	0	0
Tea Centre Decomm	0	0
Bog Clean up	4.1%	24.1%
Fuel Decomm	0	0
Yard Decomm	0	0
Building Decomm	0	0
Rail Decomm	0.5%	6.3%
Bridge Decomm	0	0
Underpass Decomm	0	0
Level Crossing Decomm	0	0
Powerline Decomm	0	0

Fencing	0	0
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*Table 4.1 Decommissioning Completed to Date*

Bog Clean Up and Rail Decommissioning commenced in 2020 and has continued through the winter and summer months.

Progress to date is progressing in line with expectations.

## 5. Monitoring and Verification

Table 5.1 below is a summary of the monitoring and verification carried out in Q3 FY22 (Oct to Dec 2021) and is intended to provide an overview of the monitoring and verification that is taking place each quarter. This table sets out the number (Nr) of samples taken and surveys carried out during the quarter and as part of the scheme to date.

Please note the Surface water samples refer to surface water quality monitoring where samples are taken and analysed for the following parameters - pH, suspended solids, total solids, ammonia, total phosphorous, chemical oxygen demand (COD), colour and dissolved organic carbon (DOC)

Detail on the data collected will be provided in a separate Monitoring and Verification report.

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*Table 5.1 Monitoring and Verification Overview*

### 5.1 Carbon Monitoring

The aim of the carbon monitoring and verification program is to quantify the carbon reduction benefit of the EDRRS program. As sites are rewetted, a range of habitats are likely to emerge dependant on peat depth, hydrology, and soil-water chemistry. Each of these habitats are likely to have specific greenhouse gas emission profiles.

To estimate the carbon reduction benefits, emission factors must be developed for these emergent habitats and to achieve this, a monitoring program was developed that utilised Eddy Covariance flux towers, employed the closed chamber method and methods to quantify aquatic carbon losses.

[Redacted content]

[REDACTED]

[REDACTED]

## 5.2 Archaeological Monitoring

An Archaeological Impact Assessment (AIA) will be undertaken for all bogs to be rehabilitated under this scheme. The aim for known archaeology on these bogs is to accomplish preservation in situ and steps are taken to identify and avoid all known archaeology as defined by the AIA. All known archaeology identified in the Archaeological Impact Assessment is incorporated into the rehab design and by defining a buffer zone around these features, which will then be excluded from any ground works in these areas in the final plan. It is anticipated that any archaeology will benefit from the ultimate remit of the rehabilitation, in that water tables across the whole site, including the buffered archaeology zones, will be raised thereby preserving in-situ. There is also an identified procedure for managing reports of stray finds that may arise during rehabilitation works.

Table 5.1 above includes information on the number of Archaeological Impact Assessment surveys carried out during the quarter and to date.

Archaeological monitoring surveys were carried out by a Contractor appointed by the National Monuments Ireland on four bogs undergoing rehabilitation in 2021. It is proposed that further surveys may be carried out this year and these will be noted in this quarterly report. Bord na Móna will continue to assist and facilitate any such surveys.

## 6. Grant Claim

[REDACTED]

[REDACTED]

Table below redacted 'Article 9 (1) (c ) commercial or industrial confidentiality, where such confidentiality is provided for in national or Community law to protect a legitimate economic interest.'

Table 6.1 Grant Claim Update

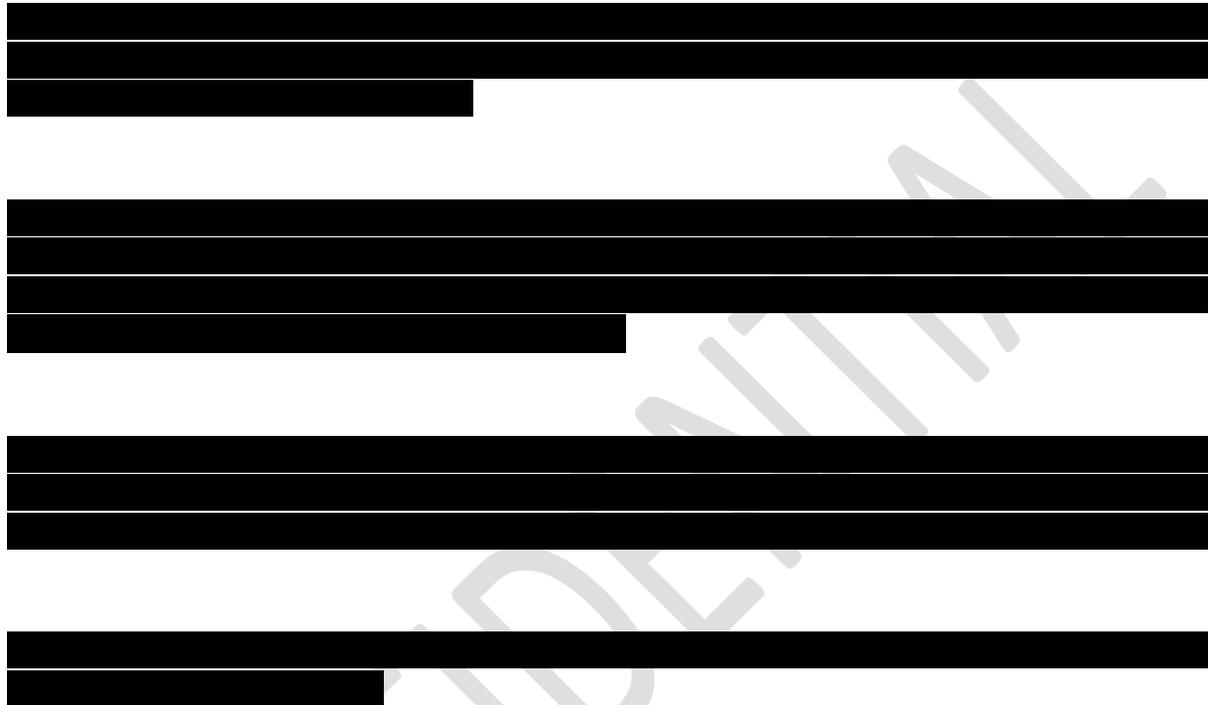


Table below redacted 'Article 9 (1) (c ) commercial or industrial confidentiality, where such confidentiality is provided for in national or Community law to protect a legitimate economic interest.'

Figure 6.1: EDDRS Budget and Grant Claim to Date

## 7. Employment

The following is a summary of the employment for FY22Q3:

Employee Group	Employee Type	Max Number FY22Q3 (Oct to Dec 2021)
[REDACTED]	[REDACTED]	[REDACTED]

[REDACTED]	[REDACTED]	[REDACTED]
<b>Total</b>		<b>221.5</b>

Table 7.1 Grant Claim Update

[REDACTED]

The above table sets out the maximum number of people employed in this quarter on the design and implementation of the EDDRS scheme.

[REDACTED]

## 8. Programme

[REDACTED]

The overall hectares of completed rehabilitation at the end of this quarter Q3FY22 (Oct to Dec 2021) is 5,196 hectares

[REDACTED]





## 10. Remediation Works

No remediation works have been required to the rehabilitation measures to date.

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