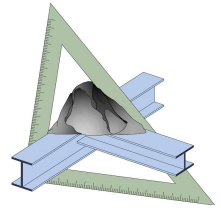


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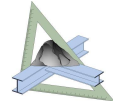
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**Construction of new materials storage plateau at
Gelliargwellt Farm
Construction Environmental Management Plan (CEMP)**

Prepared for:-

Bryn Recycling Ltd



1. INTRODUCTION

Bryn Recycling Ltd have applied for planning permission to extend the operational area of the existing Materials Recycling Facility at Gelliargwellt Farm, Gelligaer Road, Gelligaer.

Gelliargwellt Uchaf Farm is a farm of about 320 ha located in the countryside about 1.5km north east of Nelson and 1km south west of Gelligaer. The site location is shown on Drawing No. BRL-MRFYD-2023-009.

This work is necessary to provide a storage area for soils produced as part of the recycling process, the new surface will be concreted which will be laid to designed falls thus controlling the run-off from the area. The surface water run-off will be collected in a new attenuation pond, prior to being directed to a new series of 3 lagoons to the west at the bottom of a newly formed slope. The lagoons will discharge through a flow limiting control device to the adjacent watercourse. This watercourse itself discharges to the Nelson Bog some 800m to the south. Nelson Bog is a designated SSI.

2. Site description

The area has a roughly trapezoidal shape: on the west and northwest is bounded by an un-named watercourse. To the southern and eastern margins, the area is a formed slope and the operational areas of the various businesses which are located at the farm.

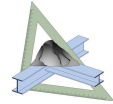
The field has an average gradient from the north-east to south-west of approximately 1 in 8 (v to h), but there are areas where the gradients are both steeper and flatter than this figure. The field is up-gradient of the watercourse.

3. Purpose of CEMP

This CEMP will establish the controls required to protect sensitive receptors from potential pollution arising as a result from the proposed works.

4. Description of the Proposed Works

The final contours have been designed to be 1:3, the area will be planted with trees as described by the Landscape Architectural Team. Once these are established, the quality of any surface water run-off will be generally good. The final working surface of the new plateau will be concrete surfaced, the concrete will be laid to falls with water generally being directed to a newly formed lagoon on the plateau. The lagoon will serve several purposes, firstly to collect any suspended solids which may otherwise enter the watercourse; secondly to attenuate flows and lastly to provide a source of water to assist in the control of fugitive dust emissions from the stockpiles if required. The lagoon will be regularly de-silted with the excavated silts allowed to dry and re-stocked.



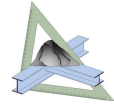
As there will be large areas of open soil-based materials during the construction of the embankment and the screening bund, the potential exists for rainfall events to generate suspended solids from the works themselves, the measures outlined in this document will assist in the potential for effects of water with a high suspended solid load from entering the downstream SSSI.

4.1 Temporary works will comprise but not be limited to

1. Prior to the works commencing a silt fence (see below typical photograph) will be established along the south-western field margin approximately 3m from the existing bank of the watercourse.
2. The lagoons will then be formed by excavating into the existing ground profile. The lagoons will be approximately 2.0m – 2.5 deep and interconnected by a shallow ditch. The ditch will be stone filled to act as a plastics filter, which can be subsequently removed and replaced on a regular basis.
3. The lagoons will have an access track around all sides so that maintenance can be carried out with a tracked excavator.
4. A temporary ditch will be constructed at the toe of the proposed embankment to collect and divert any run-off from the open ground above. The ditch will discharge into the first lagoon of the system.
5. The bases of the lagoon will be lined with gravel so as to partially act as soakaways.
6. Within the working area, any identified groundwater seeps will be directed to the ditch.
7. A pipe from the lagoon will allow the pipe to discharge back to the nearby watercourse.
8. These details are shown on the attached plan ref: BRL-MRFYD-2023-012- 1st Stage Construction.

4.2 Permanent works

9. Once the earthworks to the slope have been completed the area will immediately receive grass seed to enable an early sward development.
10. In the next tree planting season, the area will be planted as outlined by others.
11. Concurrently the lagoon on the completed plateau will be excavated and a pipe laid from the upper lagoon to the 1st lagoon on the western complex.
12. A new manhole with a Hydro-Brake Control device will be installed to the details as shown on drawing BRL-MRFYD-2023-014.
13. Once the system is operating properly and the vegetation has been established the toe ditch may be removed as well as the silt fencing.



5.0 Ongoing Maintenance

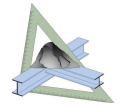
5.1 Regular inspections of the effectiveness of the installed system will be carried out and any required improvements made as and when required, these could include, but not limited to additional silt-fencing or enlargement of the lagoon system.

5.2 The stone filled inter-connecting ditches between the lagoons will be inspected monthly for contamination and effectiveness. The material will be removed and replaced as and when necessary, with materials readily available from the nearby on-site facilities.

5.3 The removed stone can be re-processed at the MRF.

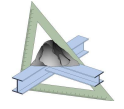
5.4 All lagoons will be de-silted at least bi-annually with the material recovered from the lagoons transferred to the soil storage areas at the MRF.

5.5 Any extraneous detritus will be cleared and moved to the MRF facility.



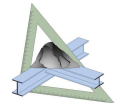
Typical silt Fence





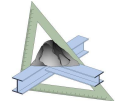
APPENDIX A

Plan ref BRL-MRFYD-2023-009



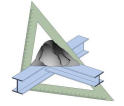
APPENDIX B

Plan ref BRL-MRFYD-2023-010



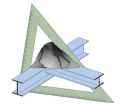
APPENDIX C

Plan ref Plan ref BRL-MRFYD-2023-011



APPENDIX D

Plan ref Plan ref BRL-MRFYD-2023-012



APPENDIX E

Plan ref Plan ref BRL-MRFYD-2023-014