

Watercourse Survey

Mynydd Maen Wind Farm

Ref 04412-6373697

Revision History

Issue	Date	Name	Latest changes
01	06.09.2023	Evan Evans	First Created



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1 Overview

1.1 General

This document has been produced following a walkover survey of the watercourses and land drains at Mynydd Maen, Cwmbran. The survey was conducted over a two day period on the 18th and 19th of July 2023. The weather at the time of the survey was dry with intermittent sunshine. Drainage features located within the catchments of the proposed wind turbines and any immediate downstream receptors were surveyed. Features surveyed are as follows -

- Nant Gwyddon watercourse and drains
- Nant Carn watercourse and drains
- Blaen Bran Reservoir
- Cwm Lickey Pond and drains
- Northern watercourse (tributary of Cwm y Glyn)
- Western watercourse (tributary of Cwm y Glyn)

It should be noted that although every effort was made to survey the length of these watercourses, due to on-site constrictions and height of vegetation some areas could not be accessed fully.

RES plan 04412-RES-DRN-DR-SV-001 should be read in conjunction with the following sections for location of the above features.

1.2 Purpose

The purpose of the walkover survey was to establish the baseline condition of the receiving watercourses / water bodies downstream of the site.



2 Walkover survey observations

2.1 Nant Gwyddon

Nant Gwyddon feeder drain no.1	Key observations
	Dry channel at time of survey.
	Evidence of scour.
	Abandoned vehicle within watercourse channel.
2.1.1	
Nant Gwyddon feeder drain no.2	
Nant Owyddon reeder drain no.2	
<image/>	Minimal / no flow, pockets of standing water within channel at time of survey.



Nant Gwyddon feeder drain no.2 cont.	Key observations
<image/> <image/>	Dry channel at time of survey
Nant Gwyddon feeder drain confluence.	
<image/> <image/>	Defined channel approximately 1 m wide with steady flow.



Nant Gwyddon feeder drain no.3	Key observations
<image/> <image/>	Well vegetated, undefined watercourse channel.
Nant Gwyddon feeder drain no.4	
<image/> <image/>	Dry channel at time of survey.



2.2 Nant Carn

Nant Carn feeder drain no.1	Key observations
<image/> <image/>	Dry channel at time of survey.
Nant Carn feeder drain no.2	
<image/> <image/>	Well vegetated, undefined watercourse channel

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2.3 Blaen Bran Reservoir

Blaen Bran Reservoir	Key observations
<image/>	Reservoir noted as disused on ordnance survey maps. Concrete lined manmade reservoir. Inlet channel bypasses reservoir. Water level approximately 1 m deep. Water body appeared to be stagnant and visual evidence of poor quality.
Blaen Bran bypass channel	
<image/> <image/>	Concrete channel on northern edge running west to east, approximately 1 m wide. Channel bypasses reservoir in low flows. Minimal flow at time of survey.



Blaen Bran inlet	Key observations
<image/> <image/>	Minimal / no flow at time of survey.
Blaen Bran outlet	
<image/> <image/>	Concrete structure at confluence of channels downstream of reservoir. Minimal flow within outlet.



2.4 Cwm Lickey Pond

Cwm Lickey Pond and inlet	Key observations
	Inlet channel bypasses pond in low flow. Standing water in inlet channel. Evidence of scour at inlet.
2.4.1 Cwm Lickey Pond feeder drain no.1	
<text><image/><image/></text>	Dry channel at time of survey.



Cwm Lickey Pond feeder drain no.2	Key observations
<image/> <image/>	Dry channel at time of survey.
Cwm Lickey Pond feeder drain no.3	
<image/> <image/>	Dry channel at time of survey.

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2.5 Northern / Cwm y Glyn watercourse

Northern watercourse (tributary of Cwm y Glyn)	Key observations
<image/>	Small vegetated channel approximately 0.5 m wide with minimal flow.
Cwm y Glyn	
<image/> <image/>	Concrete channel, approximately 2 m wide. Culverted below access track. Steady flow from west to east.



2.6 Western watercourse

Western watercourse (tributary to Cwm y Glyn)	Key observations
<image/> <image/>	Dry / poorly defined channel.
Western watercourse (tributary of Cwm y Glyn)Image: tributary of Cwm y GlynImage: tributary of Cwm y Glyn <td< td=""><td>Dry / poorly defined channel.</td></td<>	Dry / poorly defined channel.



Western watercourse (tributary of Cwm y Glyn)	
<image/>	Dry / steep channel.
2.6.3	



Annex 1 Watercourse Survey Locations



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DA	KEY:	
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oy	2.5.4 REFERENCE	
146 500	NOTES:	
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	2. CONTOURS SHOWN AT 10.0m INTERVALS.	
	3. THIS DRAWING SHOULD BE READ IN	
	CONJUNCTION WITH 04412-6144715 WATERCOURSE SURVEY DOCUMENT.	
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