



Location: 1
National Grid Reference: SO 09705 08180
Photograph Date: 19/12/2023
Description: Photograph taken facing north. The field (indicated by the red box) is known by the farmer as the 'wet field'. Surface water run off from the top of the hill. No visible streams or flows, just very saturated land.



Location: 2
National Grid Reference: SO 09710 08082
Photograph Date: 19/12/2023
Description: Spring which appears to be coming from bedrock coal measures.
Smooth flow towards south, following the topography.



Location: 3
National Grid Reference: SO 09837 08072
Photograph Date: 19/12/2023
Description: Coal mining spoil tip. Evidence of coal industry legacy.



Location: 4
National Grid Reference: SO 09856 08051
Photograph Date: 19/12/2023
Description: Ponded water. No flow



Location: 5
National Grid Reference: SO 09946 08061
Photograph Date: 19/12/2023
Description: Ponded water. No flow.



Location: 6
National Grid Reference: SO 10030 08219
Photograph Date: 19/12/2023
Description: Ponded water. Rubbish, lots of tyres present.



Location: 7
National Grid Reference: SO 10177 07864
Photograph Date: 19/12/2023
Description: Photograph taken upstream.
Right and left bank: Bedrock Boulder Cobble Earth (crumbly)
Channel width: 0.5m
Flow: Freefall / smooth. Flowing east. Appears to be pooling slightly further downstream. Cannot see source.



Location: 8

National Grid Reference: SO 10229 07936

Photograph Date: 19/12/2023

Description: Drainage ditch which was dry for the most part. Some areas of ponded water but no visible flow. Topography and plastic pipe suggests easterly flow direction.



Location: 9
National Grid Reference: SO 10384 08008
Photograph Date: 19/12/2023
Description: Borehole. Installed with 50mm pvc pipe. Unable to take a dip to water or dip to base measurement.



Location: 10
National Grid Reference: SO 10429 08007
Photograph Date: 19/12/2023
Description: Whole area saturated. Unable to tell the extent.

downstream



upstream



Location: 11
National Grid Reference: SO 10524 08057
Photograph Date: 19/12/2023
Description: Right and left bank material: Concrete and artificial
Right and left bank height: 0.7m
Channel width: 1m
Flow: Smooth. Flowing south.
Some vegetation in the drain.



Location: 12
National Grid Reference: SO 10468 08209
Photograph Date: 19/12/2023
Description: Evidence of historic coal mining.



Location: 13
National Grid Reference: SO 10472 08259
Photograph Date: 19/12/2023
Description: Photograph taken facing south.
Surface water run off flowing north into Location 14.



Location: 14
National Grid Reference: SO 10473 08277
Photograph Date: 19/12/2023
Description: Surface water run off flowing north (Location 13) into stream which flows south east.
Channel width: 1m
Channel material: Earth (crumbly) / Bedrock
Water culverted by a metal pipe under track.



Location: 15
National Grid Reference: SO 10480 08297
Photograph Date: 19/12/2023
Description: Ponded water. Surface water run off flowing east into pond.



Location: 16
National Grid Reference: SO 10480 08310
Photograph Date: 19/12/2023
Description: Poned water, appears to be part of most northerly, mapped on Site watercourse. Has vegetation / moss on top.



Location: 17
National Grid Reference: SO 10501 08336
Photograph Date: 19/12/2023
Description: Photograph taken looking upstream.
Channel material: Earth (crumbly) / Boulders
Channel width: 1m
Bank height: 2m
Concrete culvert
Flow: smooth. Flowing easterly.
Vegetation in channel



Location: 18
National Grid Reference: SO 10503 08356
Photograph Date: 19/12/2023
Description: Lots of surface water in topographic depression.



Location: 19
National Grid Reference: SO 10504 08468
Photograph Date: 19/12/2023
Description: Industrial park next to site. Photograph taken facing east.



Location: 20
National Grid Reference: SO 10521 08485
Photograph Date: 19/12/2023
Description: On site drainage ditch / field drain. Slightly blocked by vegetation.
Flow: smooth, flowing north into Location 21.
Channel material: Earth (crumbly)
Channel width: 1m
Channel height: 0.5m
Water depth: 0.1m



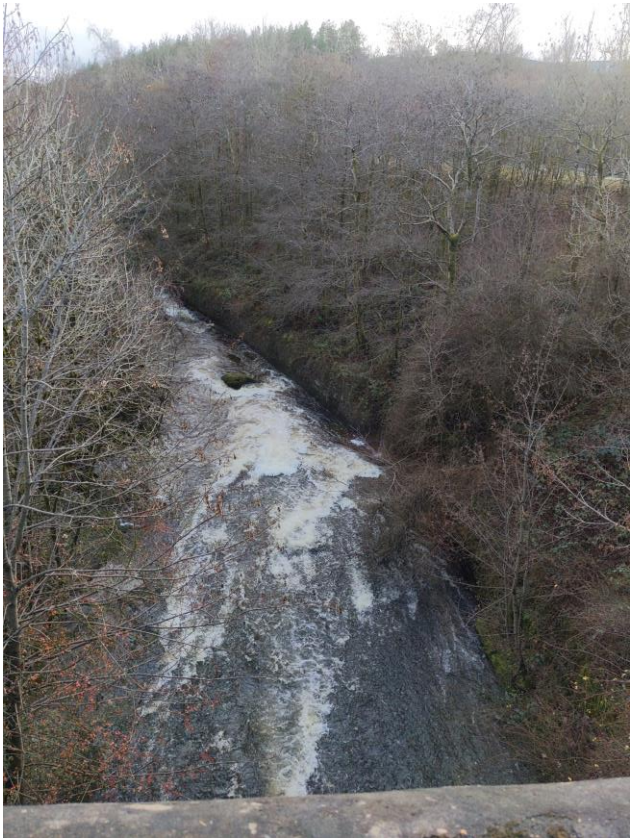
Location: 21
National Grid Reference: SO 10513 08518
Photograph Date: 19/12/2023
Description: On site drainage ditch / field drain. Slightly blocked by vegetation. Concrete culvert where water flows into concrete drainage ditch which flows towards River Rhymney.
Flow: smooth, flowing east into culvert. Bottom photo is Location 20 entering Location 21.
Channel material: Earth (crumbly)
Channel width: 0.5m
Channel height: 0.25m
Water depth: 0.1m



Location: 22
National Grid Reference: SO 10502 08699
Photograph Date: 19/12/2023
Description: Nant Carno.
Photograph taken upstream from a bridge, river is culverted under the road.
Flow: Smooth with some areas chaotic
Channel material: Boulder / Bedrock / Earth (crumbly)
Channel width: 7m



upstream



downstream

Location: 23
National Grid Reference: SO 10756 08491
Photograph Date: 19/12/2023
Description: Photograph taken from bridge. Left photograph shows the confluence of Nant Carno (left) and the River Rhymney (right).
Flow: Southerly direction, chaotic and very fast flow.
Channel material: Brick / manmade / concrete
Channel width: 10m
Bank height: 15m
Some boulders in the middle of the river.
Some inflows from banks at the sides.



Location: 24
National Grid Reference: SO 10293 09264
Photograph Date: 19/12/2023
Description: Small reservoir next to Butetown reservoir, associated with Lakeside Farm. Purpose not known. Photograph taken over brick wall.



Location: 25
National Grid Reference: SO 10272 09210
Photograph Date: 19/12/2023
Description: Butetown reservoir. No visible flow. Used for fishing.



Location: 26
National Grid Reference: SO 10201 09190
Photograph Date: 19/12/2023
Description: Smooth inflow into Butetown reservoir. Flowing south.
Channel width: 0.75m.
Channel material: Earth (crumbly).



Location: 27
National Grid Reference: SO 10107 09208
Photograph Date: 19/12/2023
Description: Acid drainage in field drain next to Butetown reservoir.



upstream



downstream

Location: 28
National Grid Reference: SO 09982 09139
Photograph Date: 19/12/2023
Description: Inflow into Butetown reservoir.
Flow: chaotic and fast, south into reservoir. Artificially redirected.
Channel material: Artificial / Earth (crumbly) / Boulder
Channel width: 0.8m
Channel height: 0.5m
Water had a yellow tinge.



Location: 29
National Grid Reference: SO 09851 08913
Photograph Date: 19/12/2023
Description: Butetown reservoir outflow / weir.
Flow: smooth, east into Nant Carno.
Manmade / brick / concrete / laid stone.
Channel width: 4m
Water depth: approximately 0.5m
Channel artificially diverted.