**Waterloggers Migneint Wales**

Dipwell tubes inserted on 5th and autologgers placed on 6th. Note no access was granted to the original NN site however a closer alternative was suggested. Only one logger was placed on the new NN site. A logger was placed on another drain that will be restored in the near future. All other loggers were placed on sites that were used for tea bag burial and core sampling. Two cores were collected from the new NN and DAM site for characterisation.

**Damaged site**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Name of waterlogger | Notes | Depth of dipwell tube above surface/cm | Lip of tube to water | Peat depth/cm | Way  point | Altitude/m |
| Mig\_Dam\_1\_Sam\_920779  (SN) | tea sampling | 5 cm | 8.5 | 153 | 409 | 459 |
| Mig\_Dam\_2\_Sam\_ 922236 | tea sampling | 5 cm | 78 | 142 | 410 | 455 |

**Mig\_Dam\_1\_ Waypoint (N52 58’ 09.5’’, W003 49’ 00.5’’)**

Location notes: Drain 14. Had one side of the tube deeper. 2m from drain

If the loch is on the left downhill the WL1 is N and WL2 is south of the drain.

**Dominated by heather, Erica,**

**Mig\_Dam\_2\_ Waypoint (N52 58’ 09.4’’, W003 49’ 00.6’’)**

Location notes: On the other side of the drain.

Drain is 75 cm deep and 50 cm wide. A lot of water draining from it.

**Restored site (sampling site)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Name of waterlogger | Notes | Depth of dipwell tube above surface/cm | Lip of tube to water  3/08/ 2022/cm | Peat depth/cm | Way  point | Altitude/m |
| Mig\_Res\_1\_Sam\_918681 (SN) | Tea | 5 | 7.5 | 191 | 413 | 456 |
| Mig\_Res\_2\_Sam\_914372 | Tea | 5 | 5 | 198 | 414 | 455 |
| Mig\_Baro\_1\_925338 |  | 41 | 43 | na | 415 | 455 |

**Mig\_Res\_1\_Sam Waypoint 413 (N52 58’ 10.6’’ W003 48’ 57.2’’)**

This is the location of the tea bag burial and the core sampling. Drain 7 on the map. It is clearly very difficult to see the edge of the drain as they are filled with Sphagnum and grass. 2 metres was measured using the pre-located transect points.

Both these cores was very hard to get out as the hole was filled with peat soup!!

**Mig\_Res\_2 Waypoint 414 (N52 58’ 10.6’’ W003 48’ 57.2’’)**

**Mig\_Baro\_1 Waypoint 415 (N52 58’ 10.6’’ W003 48’ 57.1’’)**

WL2

Other study transect

WL1

**Damaged site to be restored**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Name of waterlogger | Notes | Depth of dipwell tube above surface/cm | Lip of tube to water | Peat depth/cm | Way  point | Altitude/m |
| Mig\_Dam\_3\_920511  (SN) | New | 5 cm | 17.5 | 203 D2 | 411 | 453 |
| Depth 1 |  |  |  | 226 D1 | 412 | 452 |

Drain is 50 to 60 cm deep and the width was 40 to 25 cm. Took peat samples.

This logger was placed on near a sampling transect point 28 on the map. The drain did not look as deep as 14. However this drain is going to be restored in the near future so we will follow this progress. It was clear that the transect points were here and then downslope towards the loch. Could not find the other transect up slope. After taking peat depth it was decided to put the logger on the side that did not have a path so on the side with only one wooden post not two.

D1

D2

Toward loch

Depth 1: N52 58 02.7, W003 48 58.9

**Mig\_Dam\_3 Waypoint (N52 58’ 02.6’’ W003 48’ 59.2’’)**

**Near natural site**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Name of waterlogger | Notes | Depth of dipwell tube above surface/cm | Lip of tube to water  3 /08/ 2022 | Peat depth/cm | Way  point | Altitude/m |
| Mig\_NN\_1\_ 923923(SN) | New | 5 | 10.5 | 406 | 416 | 458 |

**Mig\_NN\_1 Waypoint (N52 58’ 15.7’’ W003 49’ 00.8’’)**

This is a NN site recommended by natural resource wales as a nearby site that has never had any historic use such as drainage or fire. The vegetation was clearly devout of heather and grasses dominate with sphagnum underneath. Clear bog asphodel present. Chosen a location in the middle of the site

**Dipwells Damaged/Restored**

There is a serious of dipwells located on this sight which are part of the 2003 Cooper et al paper. The dipwells were measured during this trip. These are sealed tubes but the lids are all broken. This means they are open to the elements they are just holding rain water. Therefore these cannot really be trusted for measuring water table.