

Backstop Improvement Condition Extension Report

This document has been submitted to explain and evidence the need for an extension to the 12-month Backstop Improvement Condition, which has been issued to Dŵr Cymru as part of the Review of Permits process, and the subsequent investment programme of works.

| | |
|---|--|
| WwTW Name | GLASBURY STW |
| Permit Number | AW1002101 |
| Catchment | Upper Wye |
| Water Body | Wye - Scithwen Bk to Bredwardine Br (Wales) |
| Can the site meet the total Phosphorus backstop limits now | No |
| Explanation | <ul style="list-style-type: none"> No phosphorus removal processes installed on site currently. Current mean average long-term performance 5.2 mg/l |
| Can the site meet the total Phosphorus in 12 months | No |
| Explanation | <ul style="list-style-type: none"> Current on-site assets cannot be optimised further. Design and installation of additional assets required. Currently no footprint on site to host the required additional assets. Substantial investment and increased footprint required to meet the backstop limit. |
| Primary Extension Category | Land Purchase Risk |
| Secondary Extension Category | NBS (reedbed) |
| Headline category of solution | Hybrid: Ferric dosing with new reedbed |
| Details of proposed solution | <ul style="list-style-type: none"> Upgrades to PST Chemical Dosing (Ferric / Alkalinity) Non aerated reedbed |
| Land purchase required | Yes |
| Planning required | Yes |
| Protected Area surveys & Ecology approvals | Yes |
| NBS Candidate | Yes (hybrid) |
| Partnership / Multi sector scheme candidate | No |
| Extension Requested | 24 months |
| Date requested on extended permit Improvement Condition | 26 th January 2027 |
| Date submitted to NRW | 24 th of May 2024 |

DCWW senior Signature

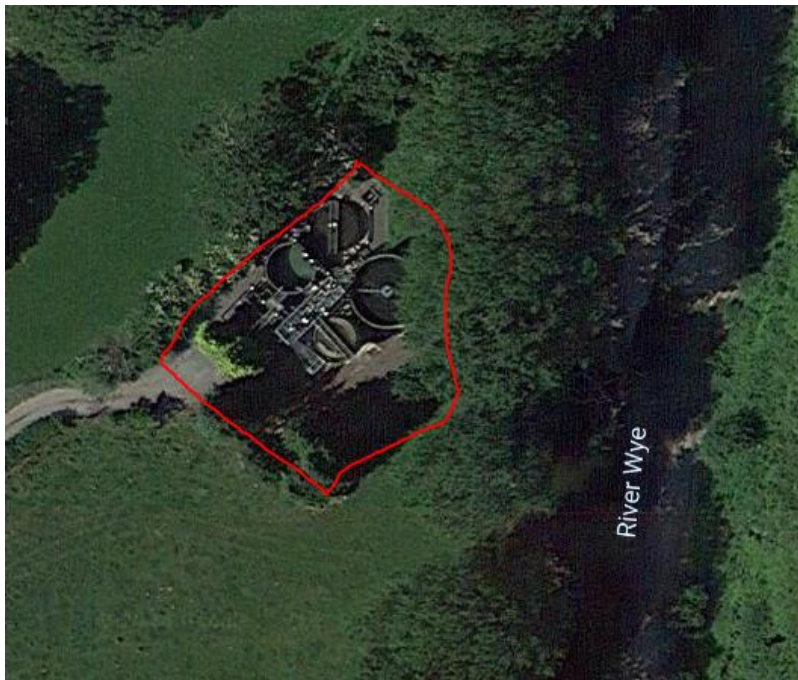
K. Hamill

NRW Senior Signature

Appendix

Appendix 1

GIS and Aerial image of WwTW, with 'redline boundary' of DCWW's existing landholding. Demonstrating there is no further room to expand without further land purchase.



Appendix 2 Raw Sample Data

| Date | BOD ATU | Ammoniacal Nitrogen | Suspended solids | Ortho phosphate | Total Phosphorus |
|-----------------|---------|---------------------|------------------|-----------------|------------------|
| 06/Feb/23 11:38 | 8 | 0.77 | 18 | 5.22 | 5.84 |
| 22/Mar/23 09:45 | | | | 1.05 | 1.43 |
| 06/Apr/23 09:57 | | | | 1.08 | 1.39 |
| 05/May/23 11:23 | | | | 7.26 | 7.8 |
| 01/Jun/23 11:42 | 14 | 4.94 | 24 | 7.8 | 8.49 |
| 22/Jun/23 09:45 | 19 | 0.4 | 40 | 8.35 | 8.82 |
| 04/Jul/23 10:37 | 16 | 1.21 | 40 | 8.06 | 8.81 |
| 07/Jul/23 10:33 | | | | 7.76 | 10 |
| 15/Jul/23 10:22 | | | | 6.67 | 7.2 |
| 31/Jul/23 12:29 | 16 | 0.94 | 18 | 7 | 7.82 |
| 05/Aug/23 08:52 | | | | 6.6 | 7.1 |
| 11/Sep/23 10:21 | 8 | 0.4 | 24 | 9.08 | 9.34 |
| 25/Sep/23 09:58 | 8 | 0.4 | 14 | 2.59 | 2.98 |
| 06/Oct/23 10:16 | | | | 3.24 | 3.45 |
| 16/Oct/23 09:47 | 6 | 0.4 | 8 | 0.57 | 0.8 |
| 23/Oct/23 09:17 | | 0.4 | 10 | 0.31 | 0.61 |
| 26/Oct/23 09:32 | 8 | 0.4 | 5 | 1.3 | 1.49 |
| 01/Nov/23 09:44 | | | | 0.31 | 0.6 |
| 07/Dec/23 10:52 | | | | 2.31 | 2.67 |