

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	LLANDEGLEY (Usk) STW
Permit Number	AW1002701
Catchment	Upper Wye
Water Body	Mithil Bk- source to conf R Ithon
Can the site meet the total phosphorus backstop limit now	No
Explanation	<ul style="list-style-type: none"> No phosphorus removal processes currently installed on site. Current long-term performance 6.1 mg/l average, peaks of above 9mg/l in dry months Not achieving P Backstop. Aspiration to deliver the tight defined limit, and the backstop in 1 solution. Scheme due to progress through the DAS route to reassess the defined limit at this small (19 population equivalent) WwTW to enable a more suitable solution, considering the scale and size of the site
Can the site meet the backstop in 12 months	No
Explanation	<ul style="list-style-type: none"> Current on-site assets and process cannot be optimised further. No power, no potable water on site Rural location, accessible by foot only currently Investment and increased footprint required to adequately address the backstop limit.
Primary Extension Category	Total reconfiguration and scale up of site
Secondary Extension Category	NBS (Surface Flow Wetlands)
Headline category of solution	NBS (Surface Flow Wetlands)
Details of proposed solution	<ul style="list-style-type: none"> Site solution still at outline design stage
Land purchase required	Yes
Planning required	Yes
Protected Area surveys & Ecology approvals	Yes
NBS Candidate	Yes
Partnership / Multi sector scheme candidate	No

Indicative timeline of scheme completion	36 months
Date requested on extended permit Improvement Condition	28th January 2028
Date submitted to NRW	06/06/2024
DCWW senior Signature	<i>L. Harmer</i>
NRW Senior Signature	

Appendix

Appendix 1

Image of current assets on site.



Appendix 2 Raw Sample Data

Date	BOD ATU	Ammoniacal Nitrogen	Suspended solids	Orthophosphate	Total Phosphorus
23/Mar/23 10:15	8	0.83	5	0.17	0.34
17/Apr/23 13:45	41	26.3	49	2.46	3.64
26/May/23 11:14	42	39.5	43	5.4	6.3
08/Jun/23 11:32	47	33.9	46	4.75	5.81
27/Jun/23 09:48	157	50.8	60	7.8	8.6
11/Jul/23 10:19	132	39.4	98	5.77	7.66
10/Aug/23 12:13	32	39.7	35	6.03	6.79
18/Aug/23 11:25	9	21.1	10	3.85	4.27
24/Aug/23 12:22	15	26.5	12	5.23	5.44
06/Sep/23 09:51	170	63.8	76	8.52	9.22
18/Sep/23 09:12	45	38.3	34	7.93	8.57
05/Oct/23 09:02	22	29.4	26	6.24	6.53
10/Oct/23 10:41	19	29.1	16	5.97	6.4

