

## 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.*

<b>WwTW Name</b>	Grosmont STW
<b>Permit Number</b>	AH1001001
<b>Catchment</b>	Upper Wye
<b>Water Body</b>	
<b>Can the site meet the total Phosphorus backstop limits now</b>	No
<b>Explanation</b>	<ul style="list-style-type: none"> <li>No phosphorus removal processes installed on site currently.</li> <li>Current long-term mean average performance 5.6 mg/l Ave. (Peak in excess of 7 mg/l)</li> </ul>
<b>Can the site meet the total Phosphorus in 12 months</b>	No
<b>Explanation</b>	<ul style="list-style-type: none"> <li>Current on-site assets cannot be optimised further.</li> <li>The current works' assets would not allow for adequate dosing or short term solution to be implemented</li> <li>Design and installation of additional assets required.</li> <li>Currently inadequate footprint on site to host the required additional assets.</li> </ul>
<b>Primary Extension Category</b>	Land Purchase Risk
<b>Secondary Extension Category</b>	-
<b>Headline category of solution</b>	Scheme solution at final design stage
<b>Details of proposed solution</b>	<ul style="list-style-type: none"> <li>Single point Ferric Dosing</li> <li>Rotational sensors</li> <li>Additional sludge beds</li> </ul>
<b>Land purchase required</b>	Yes anticipated, but to be confirmed at detailed design
<b>Planning required</b>	No
<b>Protected Area surveys &amp; Ecology approvals</b>	Yes
<b>NBS Candidate</b>	No
<b>Partnership / Multi sector scheme candidate</b>	No
<b>Extension Requested</b>	36 months
<b>Date requested on extended permit Improvement Condition</b>	28 <sup>th</sup> January 2028

Date submitted to NRW

5/7/2024

DCWW senior Signature

*L. Harner*

NRW Senior Signature

## Appendix

### A1.

Photo of current assets on site and surrounding space remaining. And GIS and Areal image of WwTW, of DCWW's existing landholding. Demonstrating there is no further room to expand without further land purchase.





## A2. Raw sample data

Date	BOD ATU	Ammoniacal Nitrogen	Suspended solids	Ortho phosphate	Total Phosphorus
06/Mar/23 13:44	28	16.9	51	6.76	7.68
12/Apr/23 09:49	11	5.61	39	2.66	3.31
19/May/23 11:22	25	10	41	6.8	7.52
06/Jun/23 10:17	22	11.6	24	6.53	7.14
19/Jun/23 10:14	39	21.7	41	5.79	6.97
05/Jul/23 08:56	17	10.1	28	6.66	7.55
27/Jul/23 11:42	13	10.7	33	3.61	4.58
09/Oct/23 10:23	53	29.2	59	5.61	7.1
25/Oct/23 12:14	21	15.3	29	3.19	3.86
01/Nov/23 10:40	16	3.12	16	2.19	2.68
10/Jan/24 11:03	12	3.59	21		3.68