



The ammonia levels are likely to cause health issues to aquatic organisms and particularly fish at the current levels. During warmer months, more of the ammonia will exist in the toxic unionised form, at a time where the oxygen saturation point will be lower (due to increased water temperature).

If the water were to be used to top up the lake proposed for aquatic recreational activities, I would expect that managing algal blooms would become an ongoing task and expense due to nitrate and phosphate levels. The phosphate levels are likely to encourage species of nitrogen fixing blue green algae if nitrate levels were to become the limiting factor.

The water samples were collected close to the roadside culvert, on the border of the property. I would suggest that you contact Natural Resource Wales to investigate the source and nature of the contamination. The cost of remediation should be the responsibility of the entity that causes the contamination under the accepted "polluter pays" principle.

Please contact me should you require any further clarification or interpretation of the results.

Kind regards,

A handwritten signature in black ink, appearing to read 'M Williams', with a long horizontal flourish extending to the right.

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