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| **Project Number:** | **202** |
| **Project Title:** | Ammonia in Water, using the HACH Kit Method |
| **Method Code:** | NITAxx |
| **Method Title:** | Ammonia Nitrogen - Water |
| **CC number:** | *(Introduction of new method NMXXX)* |
| **Report prepared by:** | Lee Kennedy |

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# Objective

To validate testing the ammonia nitrogen levels in water using the HACH test kit.

# Background

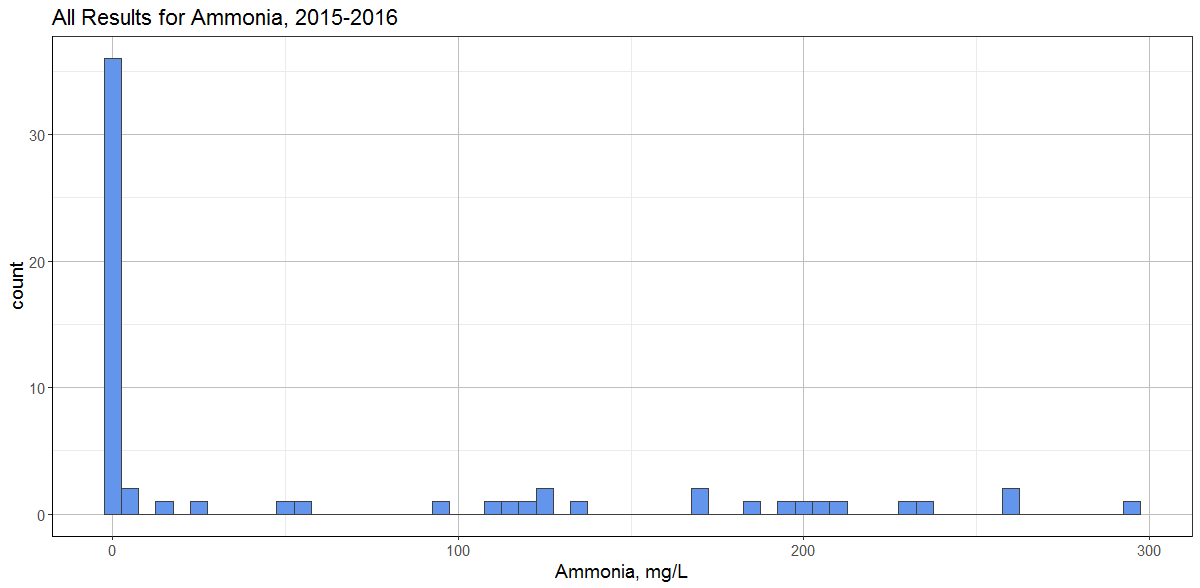
Ammonia nitrogen has been done by NITA01 in the past. The method used is:

The ammonia in the sample is separated from other nitrogen fractions by distillation from a buffered solution. The ammonia in the distillate is absorbed in a solution of boric acid and then determined by titration with sulphuric acid.

The proposed HACH method is simpler and does not require the distillation step.

Most samples have a quite low ammonia level but there are a scattering of high results.

Of 122 samples submitted since January, 61 were negative and the majority of the remainder were less than 5 mg/L. The negative results were due to the sample having a smaller titration compared to the blank.

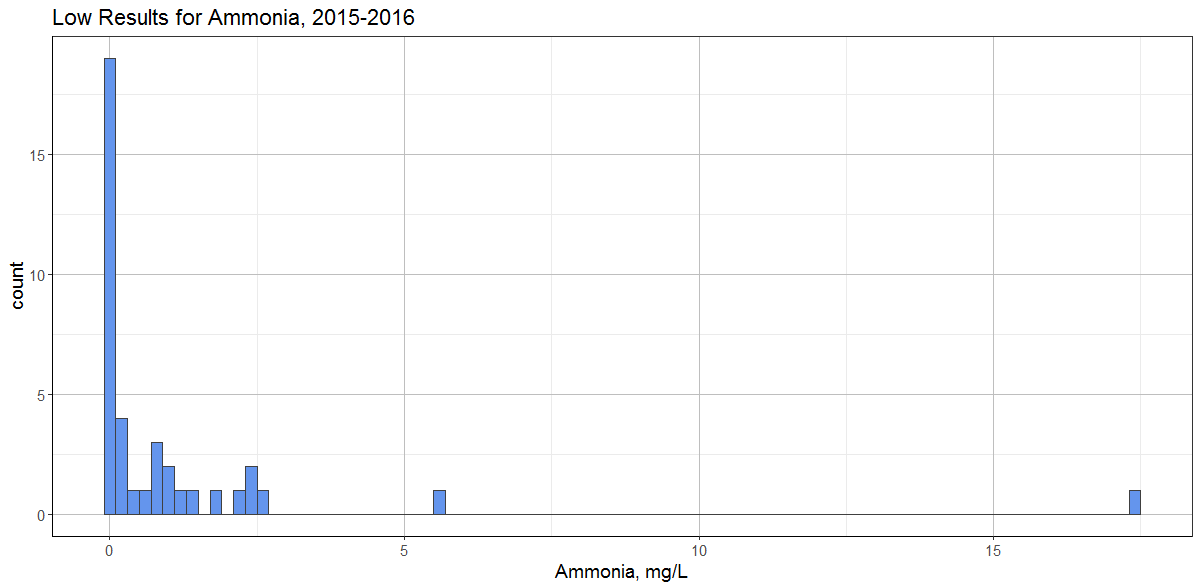


# Scope

Effluents.

# EXPERIMENTAL DESIGN

The kit has high and low level calibrations. Both will be validated. The high range is to 50mg/L. This is lower than that achievable by NITA01, where there is no upper limit as it is a distillation and titration.



# DATA ANALYSIS

# Linearity

xxx.

# Sensitivity

Txxx.

# Selectivity

xxx.

# Matrix Effects

xxx.

# Precision

xxx.

# Bias

xxx.

# Ruggedness

xxx.

# Measurement Uncertainty

xxx

# Discussion

xxxx.

# Conclusion

xxxx.

# References

xxx