**Comparative Analysis of pH and Suspended Solids Across MINEWATER Station S71567 and Nearby Stations in 2018**

**Appendix Description:**

This appendix presents a detailed comparison of monthly measurements for pH and suspended solids at 105°C from MINEWATER station S71567 and its ten nearest stations throughout 2018. Key findings from this analysis include:

**Data Selection Rationale:** 2018 was chosen as it is the most recent year with comprehensive pH measurements.

**Overall Water Quality:** Water quality generally exhibited neutral to alkaline conditions.

**pH Values:** There was no direct correlation between the pH values and the proximity to MINEWATER station S71567.

**Seasonal pH Trends:** A decline in pH values was noted during August and September, while in other months, the readings were close to or above 8.

**Suspended Solids:** Similar to pH, the levels of suspended solids showed no direct correlation with the distance from MINEWATER station S71567. Additionally, a general decrease in suspended solids was observed across all stations as the months progressed, with an exception in February where the MINEWATER station recorded exceptionally high values, though this did not influence other stations.

Bar charts in the appendix are arranged with the x-axis displaying the stations in order of increasing distance from MINEWATER station S71567, providing a clear visual representation of the spatial distribution and temporal trends of these key parameters.

