Appendix A meeting minutes 18th December 2023

Water Pressure Working Group - update to PC Meeting 18/12/2023

- Final tally of questionnaire responses = **110.** Thanks to everyone who promoted the survey with their friends and neighbours.
- Given the number of eligible households in the village (224) this represents a **49% response rate.** (At their request, Thedden Grange has been excluded as their water is supplied via Bentworth).
- Of the 110 completed questionnaires 46 reported having experienced pressure related water leaks, sometimes numerous ones. This represents 42% of the households who responded but, perhaps more relevantly, 20.5% of ALL households supplied from the pumping station near Wyards Farm.
- Interestingly two respondents at the low end of the village have complained of excessively low pressure. My assumption is that, sometime in the past, someone has partially closed the stopcock at the water main end to restrict the flow because of the excessively high pressure. That should be easy to prove but is not my priority just now.

Since the survey closed at the beginning of December the Working Group's priority has been to collate all the 110 datasets received onto one spreadsheet for analysis. (Unfortunately Alison lost her father at the end of November so, understandably, she has only been able to give very limited support).
Malcolm has taken Kim's idea of showing the village with reference to the height above sea level of all houses. From this he has calculated the supply pressure received by every house, given we know the average output pressure of the pumping station and its height above sea level. Looking at this "pressure map" (one version attached) I have suggested that we segment the village into different supply pressure zones and assess the number of dwellings that have suffered leaks according to these zones. As a primary datapoint I am suggesting we analyse the leak and failure rate of all houses supplied with 12.5 bar pressure or more. This is because 12.5 bar is the maximum working pressure of the British Standard blue pipe that we all have feeding our properties. We will also look at the houses supplied with 10 bar or more as this is the maximum pressure that SE Water's own engineers recommend is the most a blue supply pipe should take.
As of today this analysis isn't quite complete but, as a first indication, over 40% of houses receiving water at or above 12.5 bar have experienced leaks or failures.

Next steps:

- Complete the data collation. Analyse the output from all the questions asked.
- Complete the "pressure map" analysis
- Produce conclusions based on the above.
- Produce a report for delivery to the Parish Council containing recommendations for further action.

Kind regards
Nick