

**From:** [Jesse Stephens](#)  
**To:** [Drew Perkins](#)  
**Subject:** Hillcreek Pressure Sewer Analysis - Item I)(5)(B)  
**Date:** Sunday, December 14, 2025 4:59:44 PM  
**Attachments:** [Flow from Hillcreek Subdivision.pdf](#)  
[Outlook-ezhp0itx.png](#)

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Dear Board of Trustees,

Bartlett and West is nearing completion of the interactive hydraulic model of the Hillcreek subdivision. They have been able to model the simulated flow from each home by using water meter data that they already have for each home from Consolidated Water's records. Attached is a simulation showing typical flow ranges in the main lines for the north and south sides of the subdivision. This analysis should be complete by the next meeting and we will continue to discuss the outcomes of transitioning this subdivision to centrifugal style pumps from progressive cavity pumps.

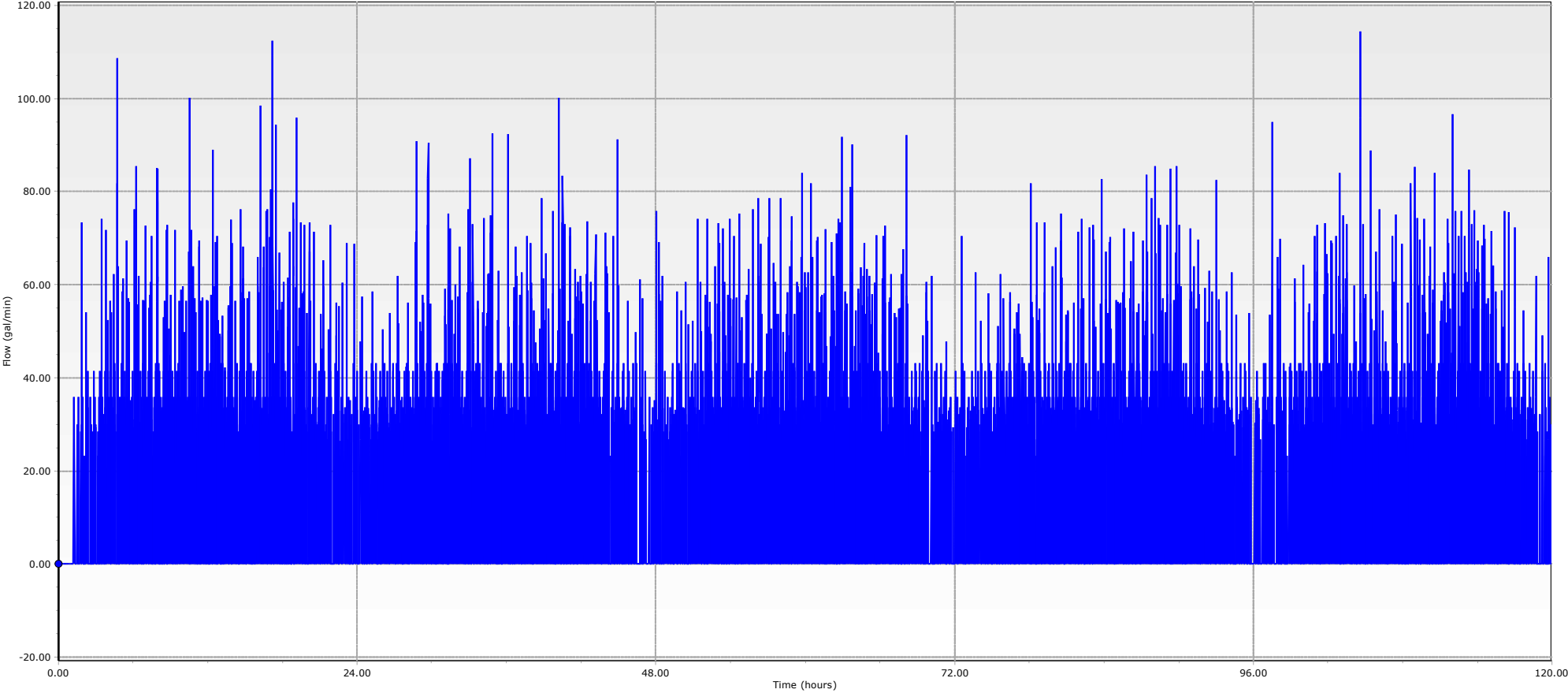
This simulated analysis is more accurate and takes much of the guess work out of theorizing how many pumps are running simultaneously. Once we prove this concept, we believe this will be the model going forward for pressure sewer design and will consider modifying the pressure sewer regulations to require production of interactive models that can be used for multiple pump simulation and analysis. We have asked for quotes to consider Heather Hills, Quantrill's pass and the HH corridor where there are many complicated hydraulic scenarios that make hand calculations difficult.

Possible considerations will be to have developers, and their engineers, work with us to have Bartlett and West amend the model to consider additions to any existing systems. I will continue to keep you updated on this project.



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New Graph



FM-483 - Scenario 1 - Flow

