

TO: Asset Management Analyst FROM: Maria Flores, Director of Public Works DATE: October 26, 2023 SUBJECT: Urgent Analysis of Water Pump #1 Replacement Options

As you know, the condition of Water Pump #1 has been downgraded to critical. We are experiencing near-constant operational issues, and the risk of a full-system failure is now unacceptably high. A failure would trigger a city-wide boil water advisory and require emergency repairs at an exorbitant cost.

The engineering team has vetted three potential replacement models: the 'Standard-Pro', the 'Eco-Flow 5000', and the 'Dura-Max Titan'. I need you to perform a comprehensive financial evaluation of these options.

Please prepare a formal recommendation memo for me to present to the City Council. Your analysis must go beyond the initial purchase price and consider the total cost of ownership over the asset's lifecycle. We need a clear, defensible recommendation by the end of next week. The council will not approve this expenditure without it.