



**Case Study Category:** MPDW

**Case Study Title:** Weibull Curve used to predict the remaining life of pipeline at Portland Water Bureau

**Utility Name:** Portland Water Bureau

**Case Study Abstract:** This case study introduces the application of Weibull curve based on failure data to predict the remaining useful life of distribution mains at Portland Water Bureau (PWB). The analysis of distribution mains failure data shows very low rate of failure on CI pipes, though the average of their age is over 70 years old. The predictions using Weibull curve for CI mains show that they could have useful life of 200 years or even more. However, there will be a substantial increase of main leaks and breaks on CI mains as the pipes become older.

**Case Study Link:** <http://waterid.org/content/weibull-curve-used-predict-remaining-life-pipeline-portland-water-bureau>