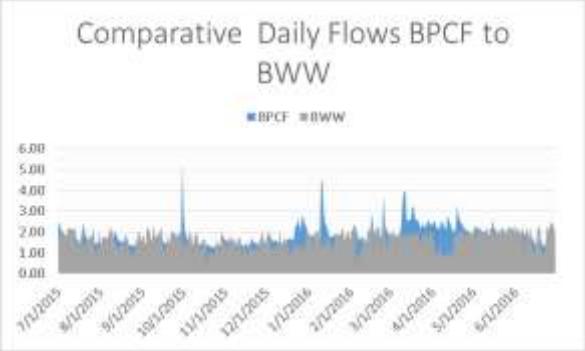
WASTEWATER TREATMENT

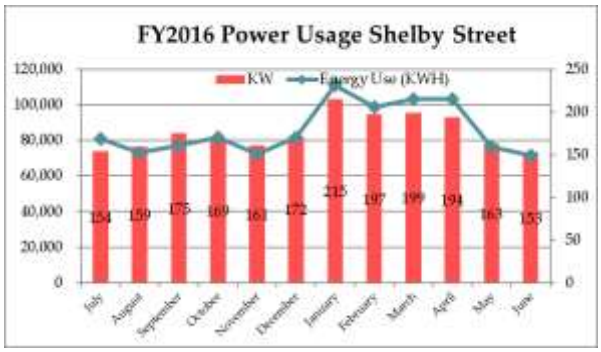
Last fiscal year, Berlin's Pollution Control Facility processed 669.3 million gallons of sewerage from the City and another 23.3 million gallons of Leachate from the Mt Carberry Landfill; our new Customer Berlin Biomass added another 34.1 million gallons. On top of which we accepted and treated almost 356,530 gallons of septage waste from outlying communities not on their own sewer systems (ie, septic tanks). All of these quantities have come down from the previous year.

A comparison we like to make is that the amount of water Berlin Water Works (BWW) supplies to the City each day should be approximately the amount of water Berlin Pollution Control Facility (BPCF) treats after traveling through the Sewer Collection System. Last year (FY2016) BWW produced about 612 million gallons of water for use in the City; BPCF on the other hand had to treat 669 million gallons of City Sewerage, or 109% more than BWW produced.

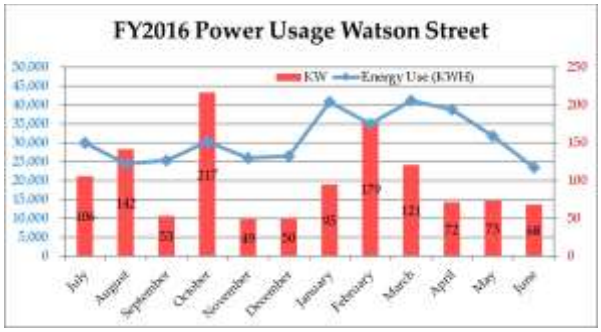


As part of our process we produced 1,405.0 tons of dried municipal sludge that we trucked up to the AVRRDD landfill for disposal. The treatment process removed 92.6% of the BOD (Biochemical Oxygen Demand) and 97.1% of the TSS (Total Suspended Solids) which came in with the sanitary sewer flows.

Average monthly power usage at the Main Plant (Shelby Street) decreased to 85,897 kWH (96%) and at our main pump station at Watson Street it decreased to 31,183 kWH (95%). Average monthly energy usage at the Main Plant (Shelby Street) decreased to 176 KW(98%) and at our main pump station at Watson Street it increased to 102 KW (111%).



The energy usage (KW) follows the peak flows and is a measure of the success of the City's program to reduce Inflow and Infiltration into the Sewer System. The moderate decrease in power usage (KWH) at the Main Plant reflects our increasing familiarity with the new control systems installed with the Upgrade and the mild Winter and Spring we had this year; Watson Street's decrease reflects the reduced energy demand reflects the diminished extremes of flow driven by the weather.



We started taking daily flows from the Berlin Biomass Plant of just under 100,000 gallons per day since the Spring of 2015 and have not encountered any difficulties either with plant chemistry or higher water temperatures.

Henry Noel, Wastewater Superintendent