



# Burt-Izard Lift Station Provides Critical Support to System-Wide Operations

## The CSO Program recently completed improvements at the Burt-Izard Lift Station.

Originally constructed in the 1960s, the lift station had the capacity to pump 50 million gallons per day during wet weather events. However, because of significant grit loadings to the facility, an old South Interceptor Force Main (SIFM) in need of improvements, and lack of wet weather treatment capacity at the Missouri River Water Resource Recovery Facility (MRWRRF) which prioritized treatment of flows from the South Omaha Industrial Areas, the lift station was recently operating at only 25 million gallons per day during wet weather events.

The Burt-Izard Lift Station Improvements Project included replacement of existing gates and mechanical bar screen, the addition of another new mechanical bar screen, new pumps and motors, valves, discharge piping, electrical and instrumentation upgrades, and enhancements for flow distribution through the grit basins. All existing equipment had been in service well beyond its useful life. The improved facility is now able to reliably pump 50 million gallons per day, via the new SIFM, for treatment at the expanded and upgraded MRWRRF.

The Burt-Izard Lift Station is one of a number of lift stations which convey flow to the MRWRRF through the new SIFM. All of the existing facilities and the SIFM were constructed in the 1960s. By

focusing on improvements at these facilities and the MRWRRF, the City is now able to convey and treat more CSO flow during wet weather events, reduce the number of lift stations operating along the Missouri River, and reduce overall maintenance costs.

The Leavenworth Lift Station Replacement Project was one of the first projects constructed in the CSO Program. This project increased the conveyance of wet weather flows to the MRWRRF from 16 to 45 million gallons per day from this lift station. The Riverview Lift Station Replacement Project is currently under construction and is expected to be complete in late 2022. This facility will increase conveyance of wet weather flows from 3.5 to 7 million gallons per day. The Monroe Lift Station Improvements Project is the final lift station improvement project included in the CSO Program. It is currently under construction and will increase the conveyance of flows from the south through a separate force main, to the MRWRRF, from 40 to 65 million gallons per day during wet weather events.

While the completion of the Burt-Izard Lift Station Improvements Project represents a significant Program milestone, the interconnection of improved facilities throughout the system is critical to system-wide operations. Collecting, screening, and pumping wet weather flows to an improved and expanded MRWRRF allows for treatment of 150 million gallons per day peak hour flow and has allowed the City and CSO Program to greatly improve the quality of water discharged to the Missouri River.





**Burt-Izard Lift Station**



**Leavenworth Lift Station**



**Riverview Lift Station**




**Missouri River Water Resource Recovery Facility**




**Monroe Street Lift Station**

 **Burt-Izard Lift Station**  
Completed: Q2 2022  
Cost: \$15,440,000

 **South Interceptor Force Main**  
Completed: 2015–2018  
Cost: \$53,760,000


 **Leavenworth Lift Station**  
Completed: Q1 2015  
Cost: \$28,327,400

 **Riverview Lift Station**  
Estimated Completion Date: Q4 2022  
Estimated Cost: \$25,846,000

 **Missouri River Water Resource Recovery Facility**  
Completed: 2014–2019  
Cost: \$139,911,000

 **Monroe Street Lift Station**  
Estimated Completion Date: Q2 2024  
Estimated Cost: \$24,464,000

**LEGEND**

 Facilities

 Lift Stations

 South Interceptor Force Main