

Missouri River Water Resource RECOVERY FACILITY IMPROVEMENTS



SCHEDULE:

- Schedule A – Q3 2014
- Schedule B1 – Q3 2016
- Schedule B2 – Q4 2019
- Wetlands Mitigation – Q4 2015
- Bank Stabilization – Q2 2017
- Transfer Lift Station Pump Replacement – Construction began in March 2020; substantial completion anticipated in Q3 2022.



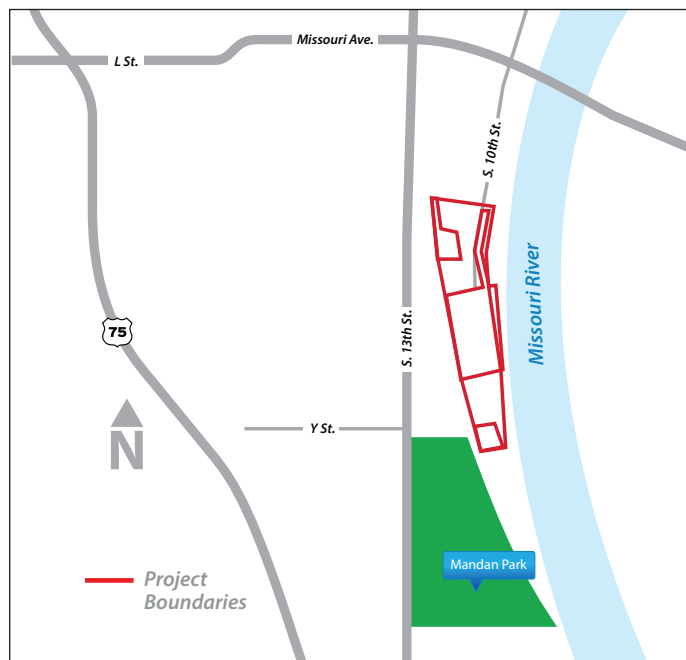
COST AT COMPLETION:

- Schedule A – \$19.6 million
- Schedule B1 – \$61.8 million
- Schedule B2 – \$52 million
- Wetlands Mitigation – \$411,000
- Bank Stabilization – \$7 million



PROJECT LOCATION:

- South of Missouri Avenue (South Omaha Bridge), east of 13th Street adjacent to the Missouri River.



The Missouri River Water Resource Recovery Facility (MRWRRF) was built in 1964. Before improvements were completed, the MRWRRF could treat approximately 50 million gallons of wastewater per day during wet weather events. Upgrades now allow the MRWRRF to treat 150 million gallons per day during wet weather flows, ultimately reducing the amount of untreated wastewater sent to the Missouri River. The MRWRRF CSO improvement were completed in three major phases or schedules (A, B1, B2). In addition, a separate project to replace the pumps to ensure reliability is currently under construction.

Schedule A (Completed) – Facilities were added to provide preliminary and primary treatment of high strength industrial waste from the South Omaha Industrial Area. Schedule A improvements were completed in spring 2014 and include water quality improvements, odor reduction and energy sustainability.

Schedule B1 (Completed) – Preliminary and Primary Treatment Facilities were constructed to increase the capacity to 150 million gallons per day during wet weather events. Flows from wet weather events that exceed the 64 million gallons per day biological treatment capacity now receive screening, grit removal and solids removal before being discharged to the Missouri River.

Schedule B2 (Completed) – Facilities were added to disinfect flows that received preliminary and primary treatment in excess of the 64 million gallons per day biological treatment capacity before being discharged to the Missouri River. Odor control facilities were constructed to complete the improvements to the primary clarifiers from Schedule B1.

Transfer Lift Station Pump Replacement – The MRWRRF–Transfer Lift Station Pump Replacement Project was identified to replace the existing five wastewater pumps that have had operational issues since being placed into service as part of the MRWRRF Schedule A project in 2014. The improvements also include replacement of the two existing stormwater pumps, bridge crane, and other ancillary equipment to support operation of the new pumps.

These improvements, when combined with other projects that are being built to deliver additional wet weather flows to the MRWRRF, will result in a significant reduction in bacterial loading to the Missouri River, consistent with the goals of the Long Term Control Plan.