

City of Sioux Falls

Water Reclamation Facility
Improvements and Expansion Project

City Council Quarterly Update
January 7, 2020

WATER
OUR FOCUS
OUR BUSINESS
OUR PASSION

 **carollo**
Engineers...Working Wonders With Water®

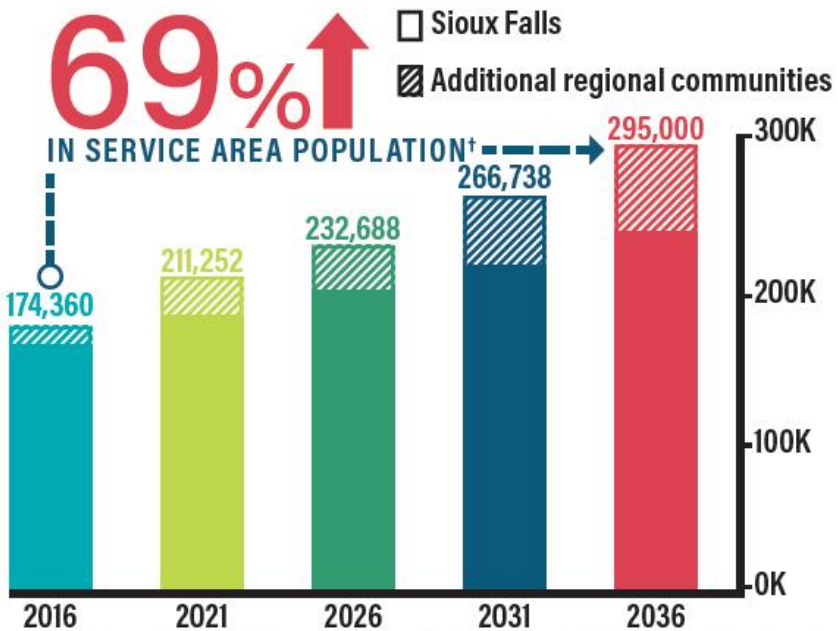
Planning Framework

- Population Growth
- Aging Infrastructure
- Future Regulations

WATER RECLAMATION FACILITY IMPROVEMENTS

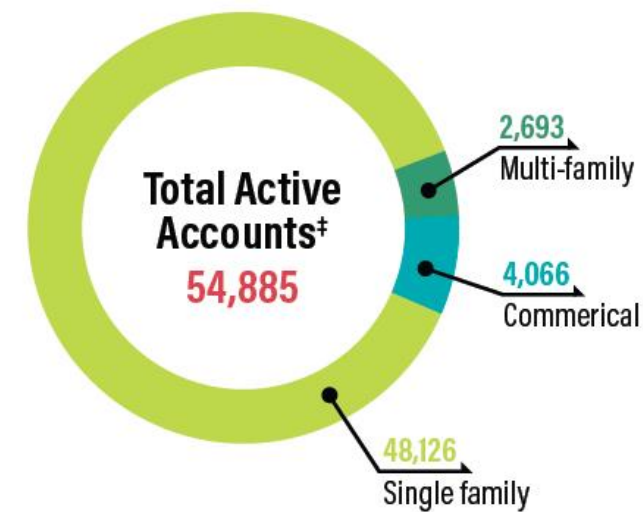


*2016 data and Master Plan information



[†]South Eastern Council of Governments and City of Sioux Falls Planning Department

ACTIVE UTILITY ACCOUNTS



[‡]6% of the daily flow is contributed by outlying communities.

120,640

projected population increase anticipated by 2036

\$100 MILLION

projected collection system investment

\$160 MILLION

projected treatment plant expansion & investment

21 MGD*

current treatment plant capacity

30.1 MGD*

future treatment plant capacity

General Project Scope

IMPROVEMENTS

- Existing Facility Rehabilitation
- Existing Facility Replacement
- Improve Facility Hydraulics
- Improve Operations & Maintenance
- Improve Effluent Quality

- Represents ~25% of Project Budget

EXPANSION

- Current Rated AADF* = 21.0 mgd**
- Phase 1 AADF = 30.1 mgd
- Phase 1 ADMM*** = 42.7 mgd
- Phase 1 PDF**** = 70.1 mgd
- Phase 1 PIF***** = 72.7 mgd

- Represents ~75% of Project Budget

*AADF – Annual Average Daily Flow

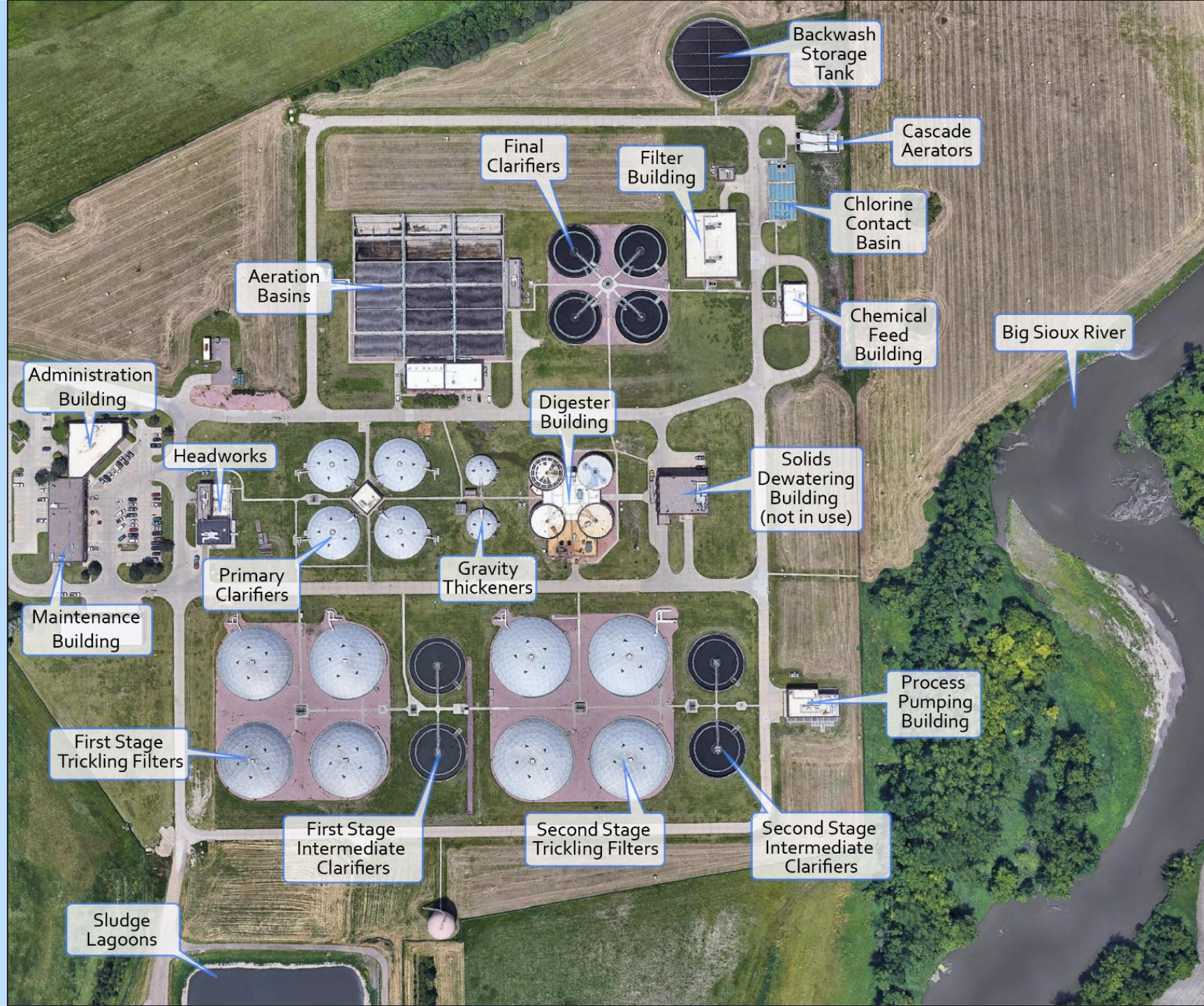
**mgd – Million Gallons per Day

***ADMM – Average Day Max Month

****PDF – Peak Day Flow

*****PIF – Peak Instantaneous Flow

Existing Facility Layout



Advanced Technology



General Project Schedule

ACTIVITY	2019	2020	2021	2022	2023	2024
Conceptual & Preliminary Design Phase						
Detailed Design Phase						
Construction Phase						
Startup & Commissioning Phase						

Milestones Completed

- ✓ Carollo Engineers design contract approved - August 2019
- ✓ McCarthy selected as CMAR - October 2019
- ✓ \$41,625,000 SRF Loan 1 approved - December 2019
- ✓ SD DENR permit released for public comment - December 2019



Anticipated Milestones

- ✓ McCarthy CMAR Resolution approval - February 2020
- ✓ 15% design cost model - March 2020
- ✓ SD DENR permit approved – April 2020



Acticipated Funding Plan

✓ Loan 2 (2020 for 2021)	\$18,500,000
✓ Loan 3 (2021 for 2022)	\$87,500,000
✓ Loan 4 (2022 for 2023)	\$11,375,000



QUESTIONS?