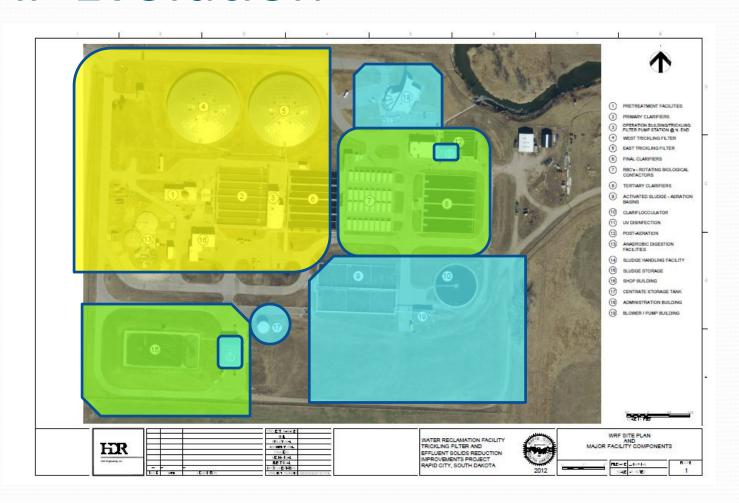
# Water Reclamation Facility

Trickling Filter and Effluent Solids Reduction Project

## Project necessity

- Violations of the facility Surface Water Discharge Permit
- Increasingly stringent regulations and permit requirements
- Facility Lift Station degradation
- Trickling Filter distributer arm deficiencies
- Algae growth resulting in high solids and bacterial levels, and high maintenance.
- UV System under sizing

#### **WRF** Evolution



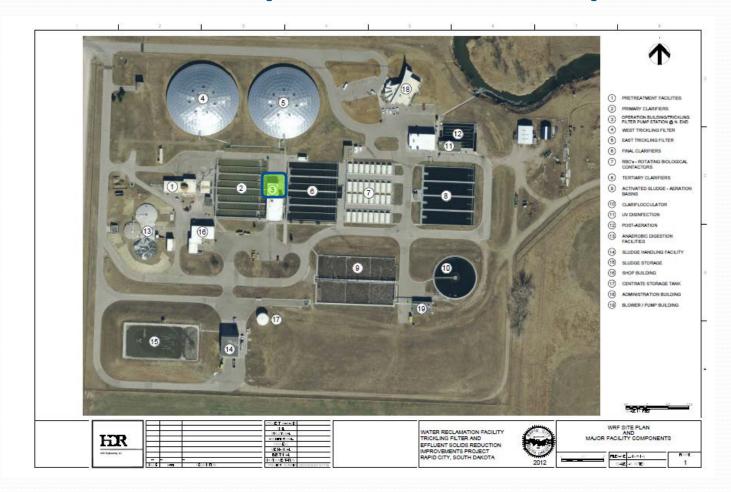
#### Recent Improvements



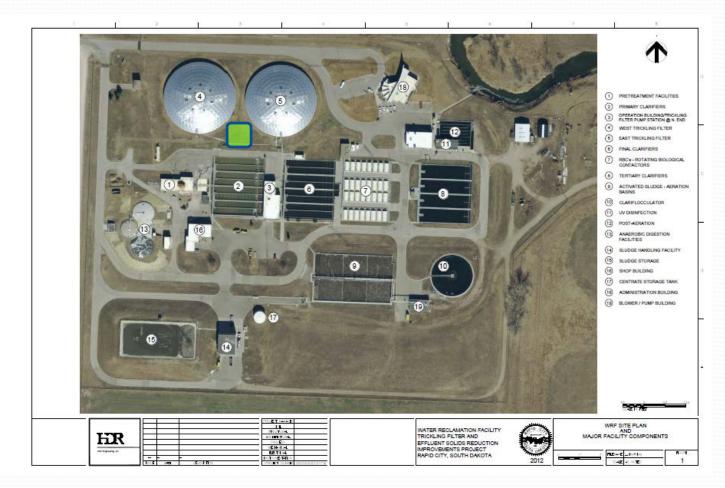
## Project Scope

- Trickling Filter and Effluent Solids Reduction Improvement Project Evaluation Phase
- Interim Lift Station Repair
- Algae Control
- UV Disinfection System & Post Aeration system Improvements
- Lift Station Replacement
- Trickling Filter Upgrade

### Interim Pump Station Repairs



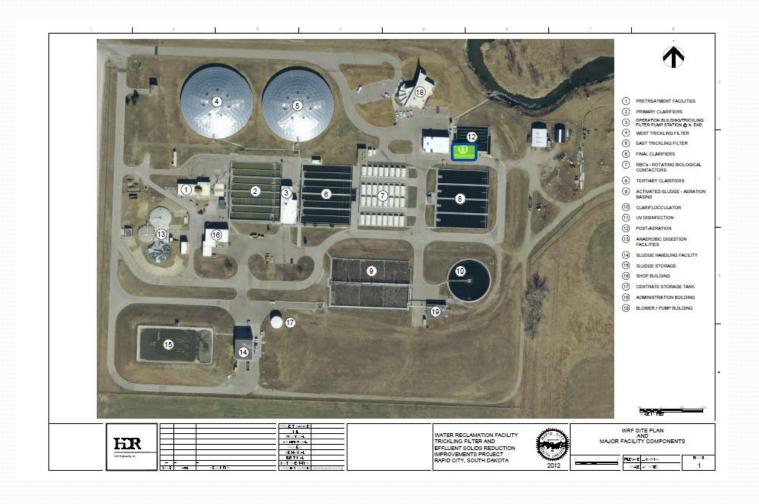
#### New Trickling Filter Pump Station



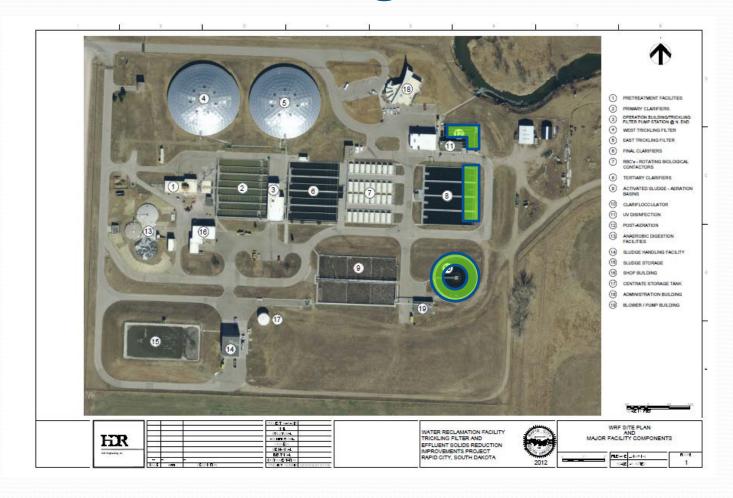
# Trickling Filter Distributer Replc.



#### Ultraviolet Disinfection



# **Channel Covering**



## **Project Costs**

- P. S. Interim imp
- Project Engineering
- Algae Control
- New Pump Station
- Trickling Filter
- Ultra Violet Disinfection
- Overall Plan

\$307,526 (contracted)

\$1,500,000

\$275,000

\$7,200,000

\$830,000

\$2,720,000

\$12,832,526

# Funding

- HDR tasked to recommend most cost effective funding sources.
- Identified sources include:
  - Engineering Services Water Reclamation CIP
  - Algae Control Water Reclamation CIP
  - New Pump Station WRD Fund and/or loan/bond
  - UV Disinfection WRD Fund and/or loan/bond
  - Trickling Filter Distributers WRD Fund or loan/bond

# Wrap Up

• Questions?