

# Drake Water Reclamation Facility North Process Train Blower Replacement

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Does the Committee support an appropriation of \$1.7M from Wastewater Fund reserves to complete the North Process Train (NPT) Blower Replacement at the Drake Water Reclamation Facility (DWRF)?



## Background

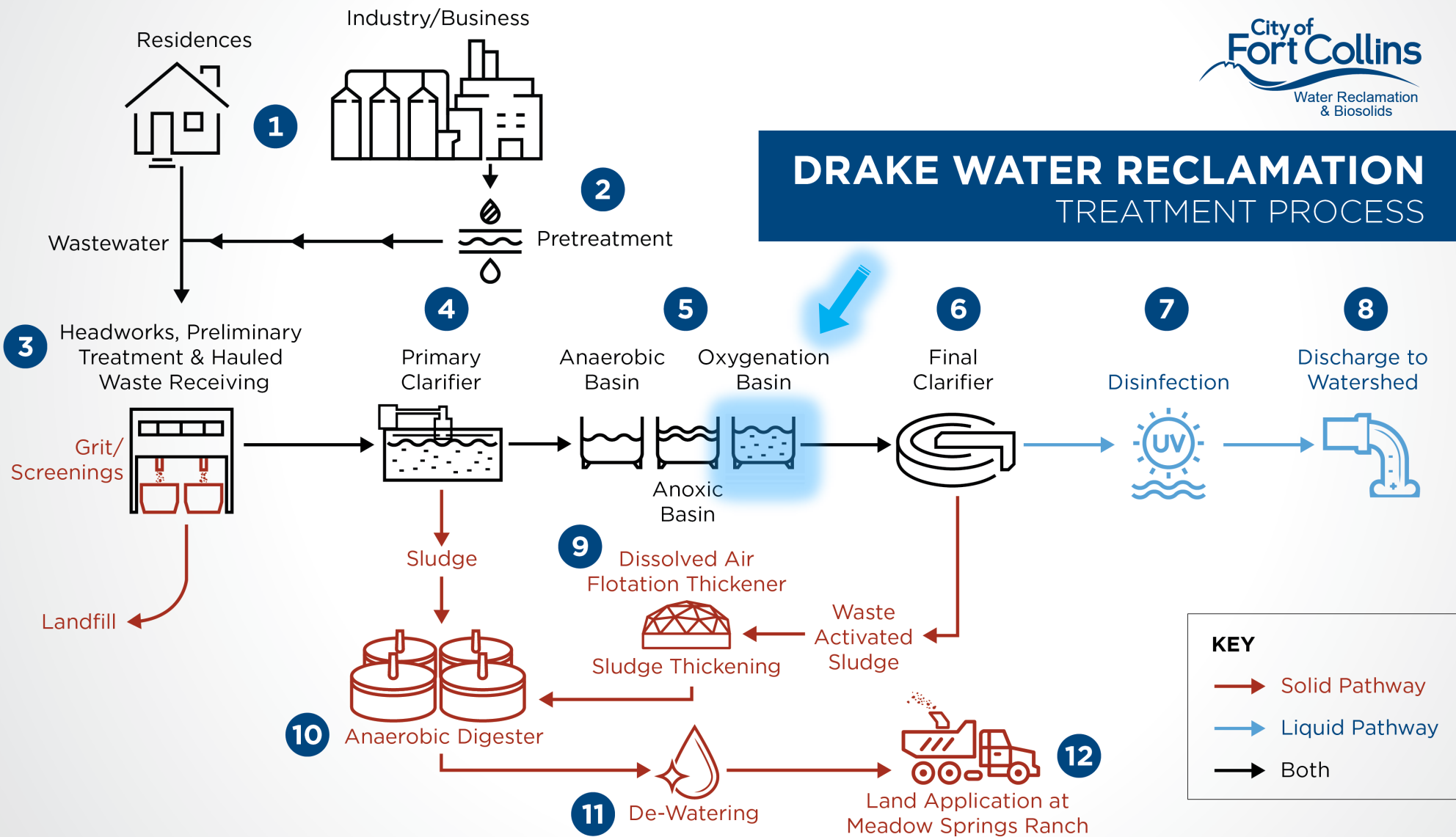
- Drake Water Reclamation Facility (DWRF)
- North Process Train (NPT)
- Secondary Treatment Aeration from Blowers
- Timeline of NPT Blowers

## Recommendation

- Replace two turbo blowers this year
- Mid-cycle appropriation of \$1,700,000 from wastewater reserves



# Drake Water Reclamation Facility – Aeration Basin





# NPT Secondary Treatment with Aeration



2011  
to  
Today

## 2011:

- Two Turbo Blowers installed
- Two centrifugal blowers remained in service
- Four total NPT blowers

## October 2024:

- Temporary NPT Blower outage
- Manufacturer no longer supports equipment
- Unable to make repairs

## April 29, 2025:

- Blower inoperative and formally taken out of service

Today

Limited to three (3) out of the four (4) blowers required by the State of Colorado Water Quality Control Division for the Drake Water Reclamation Facility North Process Train

Year  
End  
2025

## Project Schedule

### December 2024 – June 2025:

- Project Initiation *COMPLETE*
- Replacement Evaluation *COMPLETE*
- Conceptual Design *COMPLETE*
- 60 Percent Design *COMPLETE*

### July:

- Construction Contractor Request for Proposals – *in progress*

### August:

- Presentation to Council

### September:

- Equipment Procurement with a minimum five week lead time

### By year end 2025:

- Four (4) NPT Blowers in Operation

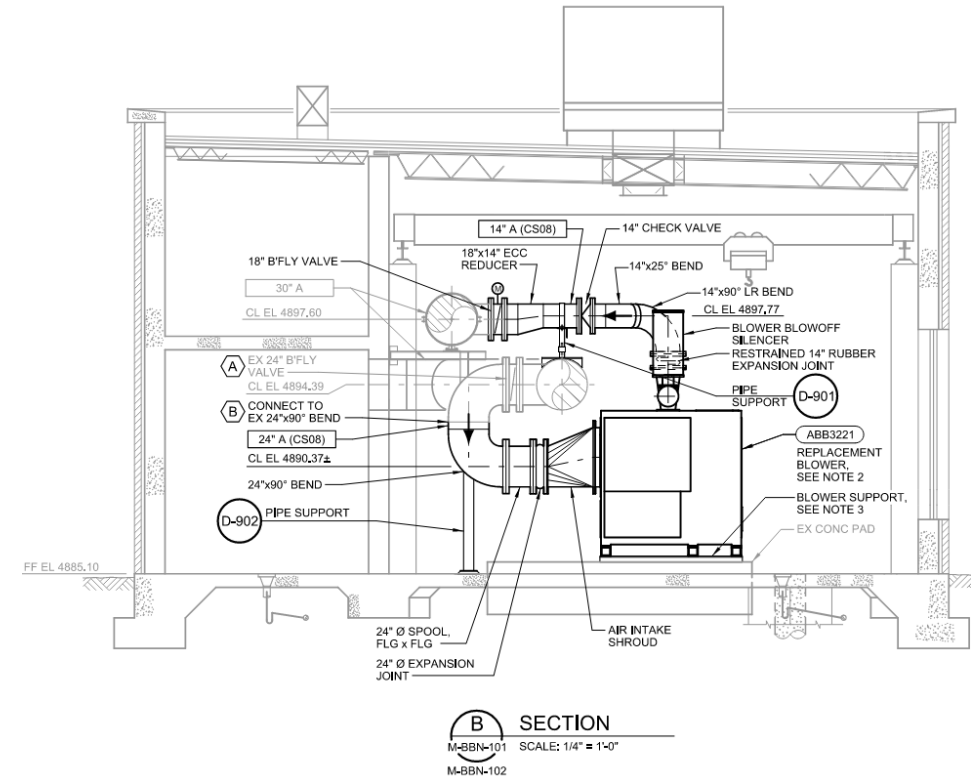


**COLORADO**  
Department of Public  
Health & Environment

# Financial Impact

- Engineer's Opinion of Probable Cost = **\$2,350,000**
- Project Initiated with WRB Replacement Program Funds = **\$650,000**
- Requesting mid-cycle appropriation of **\$1,700,000** from wastewater reserves

Item	Replacement Program	Mid-Cycle Appropriation	Budget
Design	\$150,000		\$150,000
Construction	\$100,000	<b>\$1,700,000</b>	\$1,800,000
Contingency	\$400,000		\$400,000
<b>Total</b>	<b>\$650,000</b>	<b>\$1,700,000</b>	<b>\$2,350,000</b>





# Wastewater Fund Reserves Position

Description	Total
2024 Year-End Fund Balance	\$47.2M
Previously Appropriated	(\$34.1M)
Minimum Reserve Policy	(\$4.1M)
<b>Available Reserves</b>	<b>\$13.1M</b>

- DRWF Blowers appropriation \$ 1.7M
- 2025 Available \$ 11.4M