

Safety

Service

Resilience

WT-0261 HEFNER WTP CLARIFIER REHABILITATION

Engineering Solicitation
Pre-Submittal Meeting & Site Visit

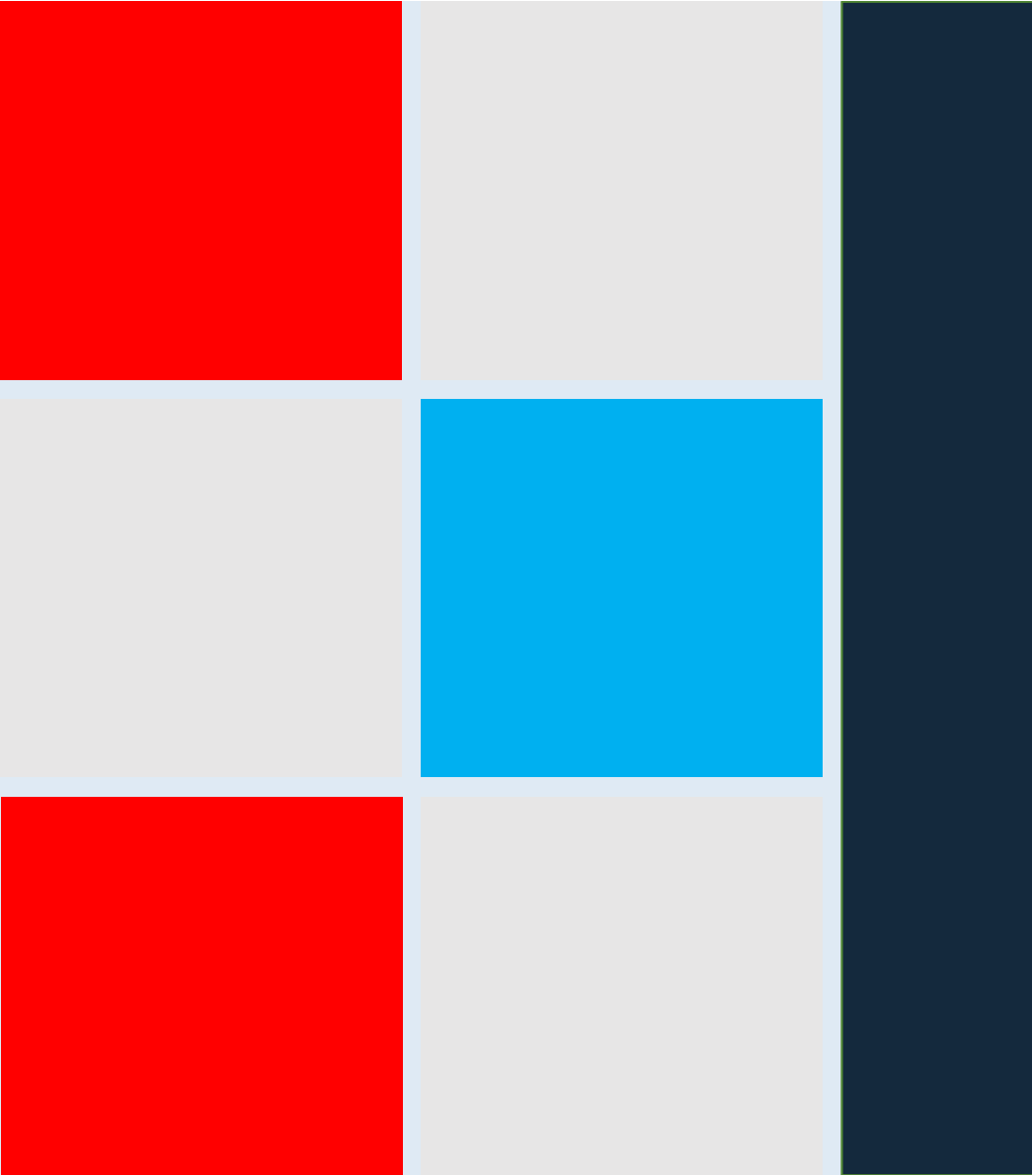
June 5, 2024


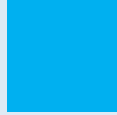

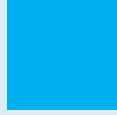

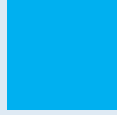

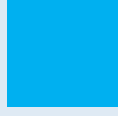
Caring

Teamwork

Creativity





-  **Introductions**
-  **Solicitation & Selection Schedule**
-  **Project Overview**
-  **Clarifiers 1, 2, 3**
-  **Clarifiers 4 and 5**
-  **Available Data**
-  **Questions**
-  **Safety Info & Site Visit**



INTRODUCTIONS

- Project Manager: Andrew Mishler
- Deputy Project Manager: Peyton Gorman
- Water Quality Superintendent: Jeff Bolden
- Water Quality Assistant Superintendent: William Waller
- Hefner WTP Plant Manager: Phillip Martin



SOLICITATION & SELECTION SCHEDULE

- Question Submission Deadline: June 10, 2024
- Response to Questions Provided: June 13, 2024
- LOI Deadline: June 20, 2024
- Notification of Short-List: July 23, 2024
- Interviews: August 6, 2024



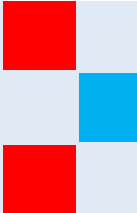
PROJECT OVERVIEW

- Rehabilitation of clarifiers
- Improvements will be completed in two phases
 - *Phase 1: Clarifiers 1, 2, 3*
 - *Phase 2: Clarifiers 4 and 5*
- Initial engineering services contract will be for Task 1 only
- Phase 1 construction will be paid for with DWSRF loan proceeds



CLARIFIERS 1,2,3

- 3 -130 ft diameter EIMCO Model #24 HRC Clarifiers (1993)



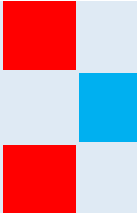
CLARIFIERS 1,2,3 OPERATIONS & MAINTENANCE

- Efficient solids removal system with little issues on removing solids
- Easier to form an established sludge blanket
- Turbine design is sized appropriately to achieve an optimal mixing/recirculation rate
- Lime injection is not located in the best point for peak mixing performance
- Due to construction materials large areas of corrosion are present
- Outside of periodic PMs corrective maintenance is manageable
- Scale buildup is more noticeable due to construction materials occupying a workforce of 5-6 people for 3-4 months every 3 years



CLARIFIERS 4 AND 5

- 2 – 130 ft diameter WesTech Model SCC61 Clarifiers (2012)



CLARIFIERS 4 AND 5 OPERATIONS & MAINTENANCE

- Solids removal system is less efficient
- Harder to form established sludge blanket
- Turbine design is not sized appropriately for optimal mixing/recirculation rate
- Lime injection is located in the best point for peak mixing performance
- Due to construction materials no corrosion is present
- No noticeable difference in frequency of maintenance
- Scale buildup is less due to construction materials

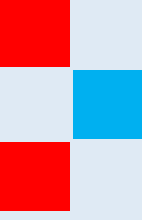


AVAILABLE DATA

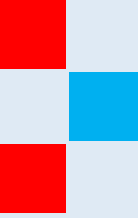
- Complete and submit a confidentiality agreement
 - E-mail to Andrew.Mishler@okc.gov and patty.Butenhoff@okc.gov
- Files available on a TEAMS site
 - *Relevant plant operational data.*
 - *Available as-built drawings for the clarifiers.*
 - *Available construction shop drawing submittals for the clarifiers.*
 - *Available operation & maintenance manuals for the clarifiers.*



QUESTIONS



SAFETY BRIEFING & SITE VISIT INSTRUCTIONS



- Be aware of ongoing construction around clarifiers
- Be aware of open holes and uneven terrain
- Visitors remain with group while touring clarifiers

