

#### CITY OF NORMAN, OK CITY COUNCIL STUDY SESSION

Municipal Building, Executive Conference Room, 201 West Gray, Norman, OK 73069

Tuesday, March 19, 2024 at 5:30 PM

#### AGENDA

It is the policy of the City of Norman that no person or groups of persons shall on the grounds of race, color, religion, ancestry, national origin, age, place of birth, sex, sexual orientation, gender identity or expression, familial status, marital status, including marriage to a person of the same sex, disability, relation, or genetic information, be excluded from participation in, be denied the benefits of, or otherwise subjected to discrimination in employment activities or in all programs, services, or activities administered by the City, its recipients, sub-recipients, and contractors. In the event of any comments, complaints, modifications, accommodations, alternative formats, and auxiliary aids and services regarding accessibility or inclusion, please contact the ADA Technician at 405-366-5424, Relay Service: 711. To better serve you, five (5) business days' advance notice is preferred.

#### CALL TO ORDER

#### AGENDA ITEMS

- 1. PRESENTATION FROM RED ROCK BEHAVIORIAL HEALTH SERVICES REGARDING THE NEW RED ROCK CRISIS CENTER.
- 2. DISCUSSION REGARDING THE WATER REUSE PILOT PROGRAM.

#### ADJOURNMENT



## Red Rock Behavioral Health Services: Working to Change Communities Across Oklahoma

Presentation to City of Norman, OK

March 19, 2024



Red Rock is funded, in part, by the Oklahoma Department of Mental Health and Substance Abuse Services.





### Verna Foust, MS, LPC Chief Executive Officer



#### Dr. Wana R. Ellison, PsyD, LPC, LADC

Chief Operation Officer, Outpatient Services



# Red Rock Executive Team



#### Kile Kuykendall

Chief Financial Officer



#### Steve Norwood

Chief Operation Officer, Specialized Services





## **Red Rock Behavioral Health Services**

### Health Center (CMHC)

- - Coordination



# Who We Are

#### • Founded in 1974 under **President Kennedy's Community Mental Health Act**

• 501(c)3 not-for-profit organization certified by the Oklahoma Department of Mental Health and

Substance Abuse Services as a **Community Mental** 

• Red Rock is a federally recognized as a Certified

### **Community Behavioral Health Clinic (CCBHC)**

CCBHC's provide specialized whole person care for individuals with complex needs through intensive Care

### • Accredited by the **Commission on Accreditation of Rehabilitation Facilities (CARF)**



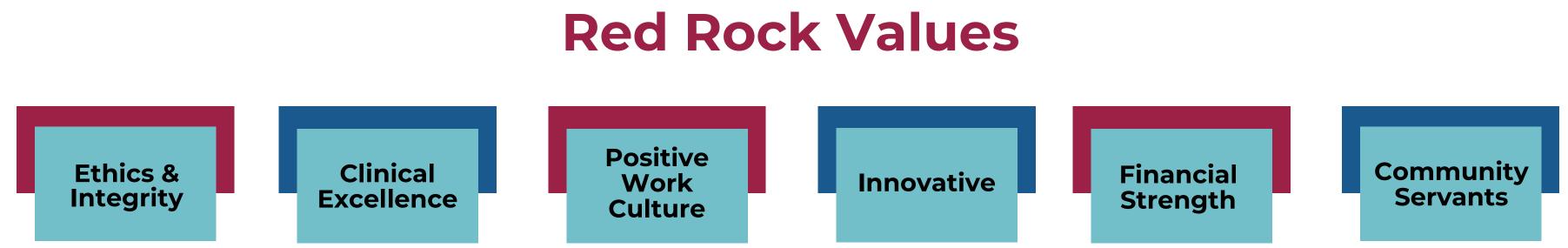


Certified Community **Behavioral** Health Clinics



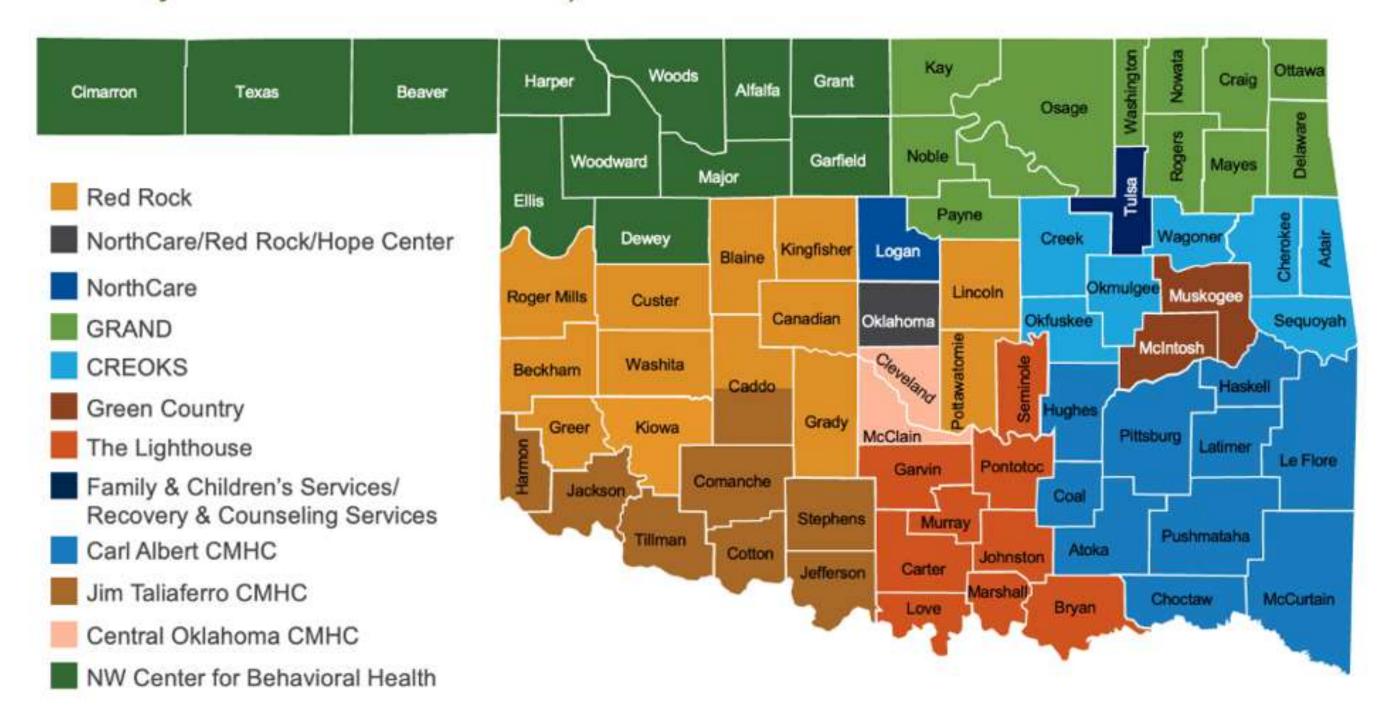
# We Are Committed To Our Mission:

To provide high quality, technology driven, *evidence based* practices so all Oklahomans will achieve better health and wellness.



Red Rock is funded, in part by, the Oklahoma Department of Mental Health and Substance Abuse Services

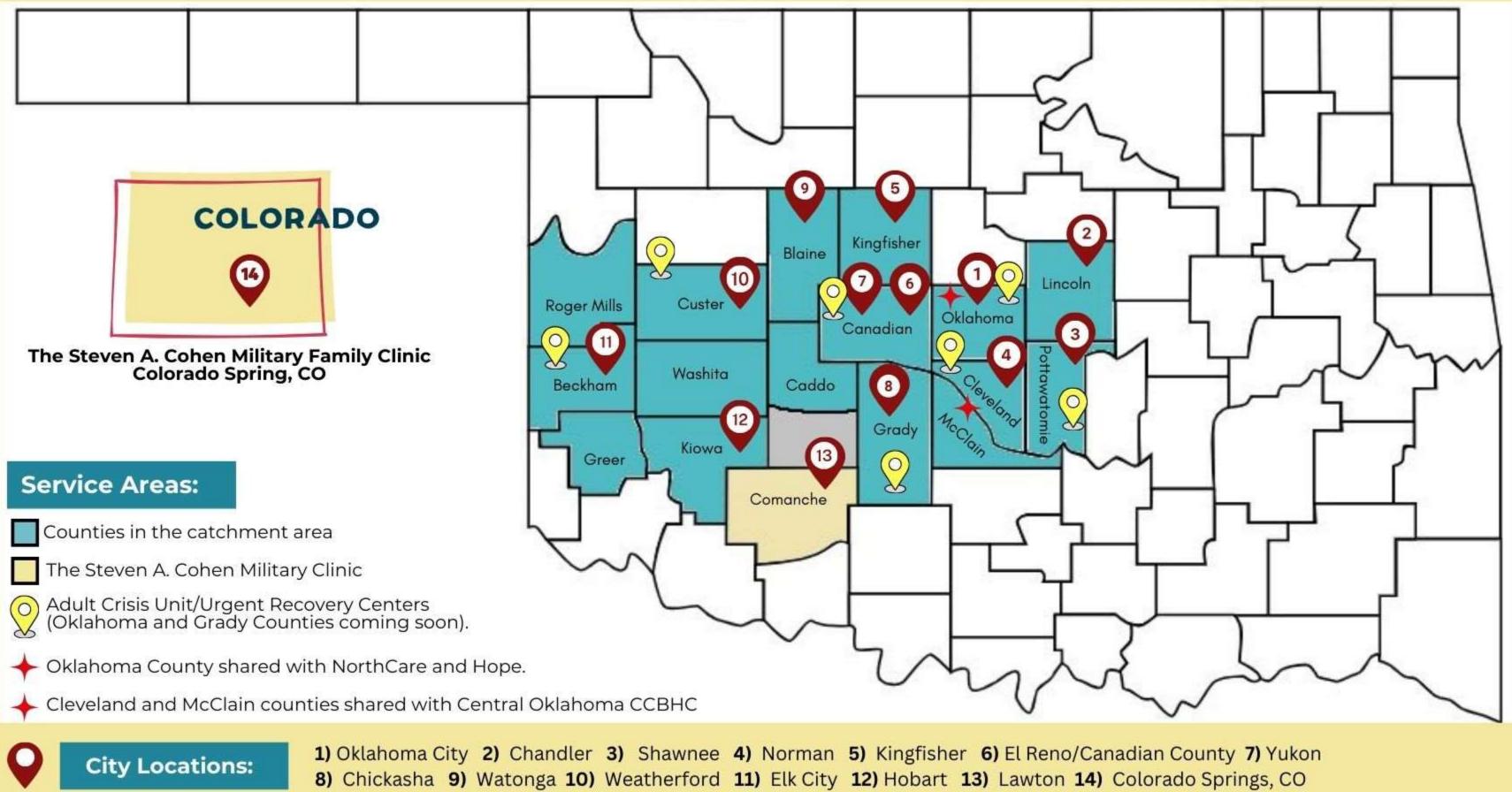
## Statewide CCBHCs (Certified Community Behavioral Health Centers)





#### oklahoma.gov/odmhsas 1

# **Red Rock Behavioral Health Services** Locations & Service Areas





# **R** Where We Are **R**

- Red Rock Chandler Outpatient Office Chandler, OK
- Red Rock Chickasha Outpatient Office Chickasha, OK
- Red Rock Children's Crisis Unit Oklahoma City, OK
- Red Rock El Reno Outpatient Office & Urgent Recovery Center (URC) - El Reno, OK
- Red Rock Elk City Outpatient Office & MAT Clinic & Urgent **Recovery Center (URC)** - Elk City, OK
- Red Rock Expressions Community Center Oklahoma City, OK
- Red Rock Hobart Outpatient Office Hobart, OK
- Red Rock Housing Office (Parkside) Oklahoma City, OK
- Red Rock Housing Office (Parkview Place) Oklahoma City, OK
- Red Rock Jordan's Crossing Oklahoma City, OK
- Red Rock Kingfisher Outpatient Office Kingfisher, OK
- Red Rock Norman Crisis Unit (Adults) Norman, OK
- Red Rock Norman Outpatient Office Norman, OK
- Red Rock OKC Main Office and Outpatient Office Oklahoma City, OK

- Red Rock Planet Rock Oklahoma City, OK
- Shawnee, OK
- Red Rock Shawnee Outpatient Office, PACT, MAT Clinic Shawnee, OK
- Red Rock Virtual/Telehealth Services (Outpatient) Oklahoma City, OK
- Red Rock Virtual/Telehealth Services (Mobile Crisis) Oklahoma City, OK
- Red Rock Watonga Outpatient Office Watonga, OK
- Red Rock Weatherford Crisis Unit (Adults) Weatherford, OK
- Red Rock Weatherford Outpatient Office & MAT Clinic (Medically Assisted)
- **Treatment)** Weatherford, OK
- Red Rock Yukon Outpatient Office & MAT Clinic (Medically Assisted **Treatment)** -Yukon, OK
- The Steven A. Cohen Military Family Clinic at Red Rock Lawton, OK
- The Steven A. Cohen Military Family Clinic at Red Rock Oklahoma City, OK
- The Steven A. Cohen Military Family Clinic at Red Rock Colorado Springs, CO

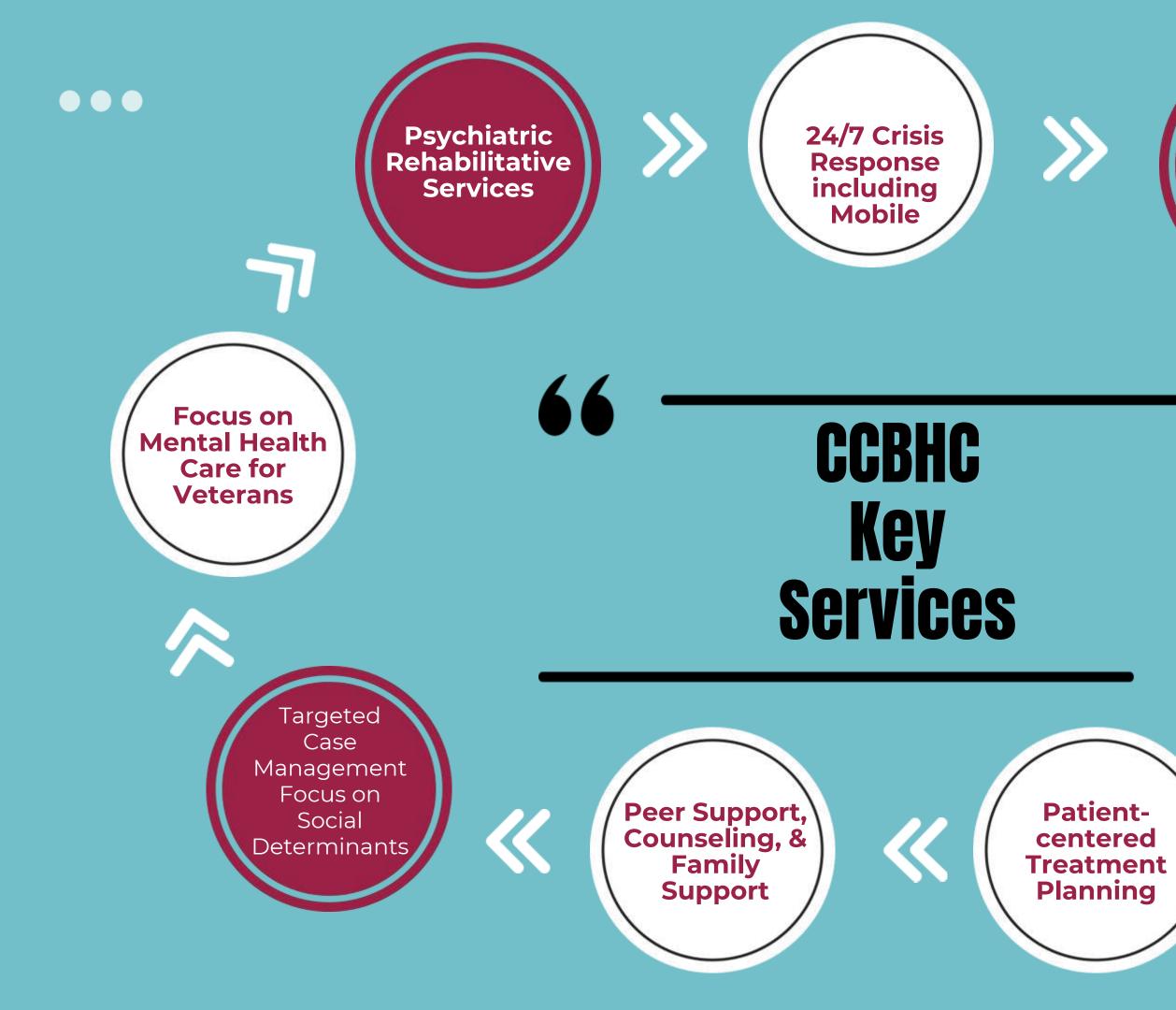




• Red Rock OKC PACT Office - Oklahoma City, OK

Red Rock Shawnee Crisis Unit (Adults) and Urgent Recovery Center (URC) -





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Quick Access to Screening, Assessment, & Diagnosis

"

Outpatient Primary Care Screening & Monitoring/ Care Coordination

Outpatient Mental Health & Substance Use Services

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# **Primary Care Screening and Monitoring**



Screening of key health indicators and health risk is completed within 30 days of intake appointment



Adult Body Mass Index (BMI) screening and follow up



Weight Assessment and counseling for nutrition for children and adolescents and follow up



Blood Pressure



Tobacco Use: screening and cessation intervention



Screening for clinical depressions and follow up plan



Unhealthy Alcohol Use



Diabetes screening for people with schizophrenia or bipolar disorder diagnosis who are prescribed ant-psychotics

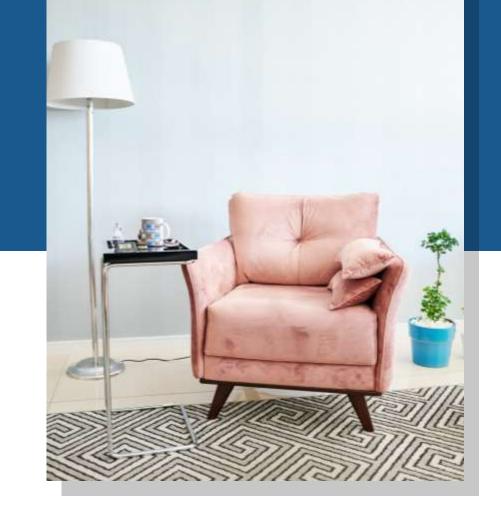




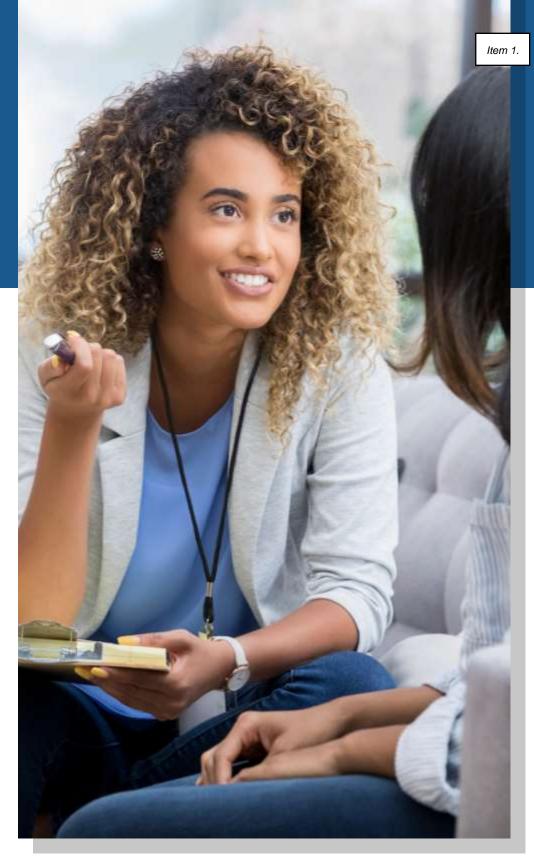


# What We Do

Red Rock BHS provides a comprehensive array of behavioral health services for individuals of all ages who are suffering from mental health, substance use, or co-occurring disorders. We strive to be the foundation of recovery by providing multiple services along a continuum of care.



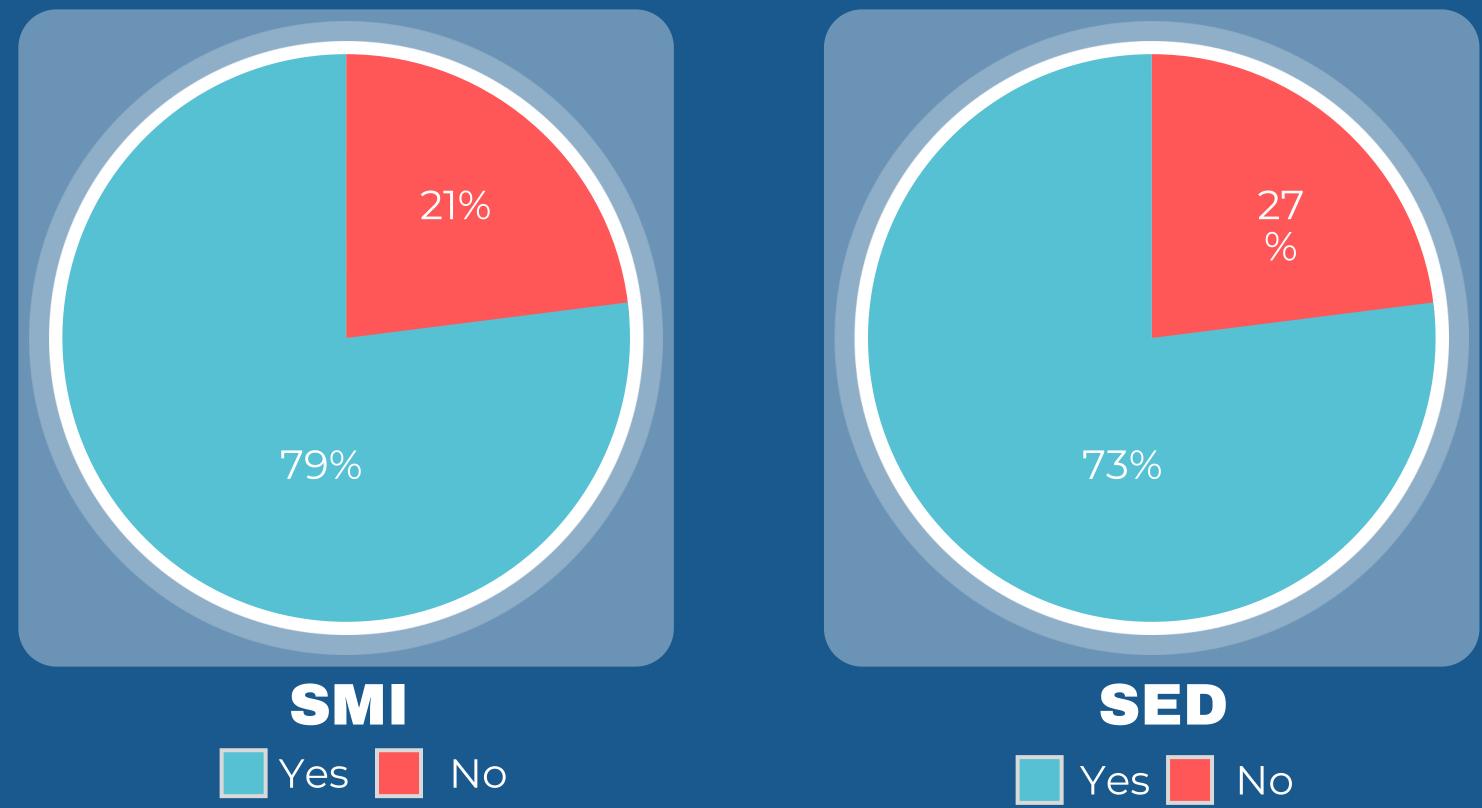
Our services include but are not limited to: crisis stabilization, traditional outpatient services, psychiatric services, HIV prevention and education, Program for Assertive Community Treatment (PACT) Services, Medication-Assisted Treatment (MAT) services, residential substance use treatment for women with dependent children, treatment court & other court-related services, military family services, community housing, employment services, telehealth services, in-house pharmacy services, and more.





79% of Adults Seen have a Serious Mental Illness 73% of Children have a Serious Emotional Disturbance

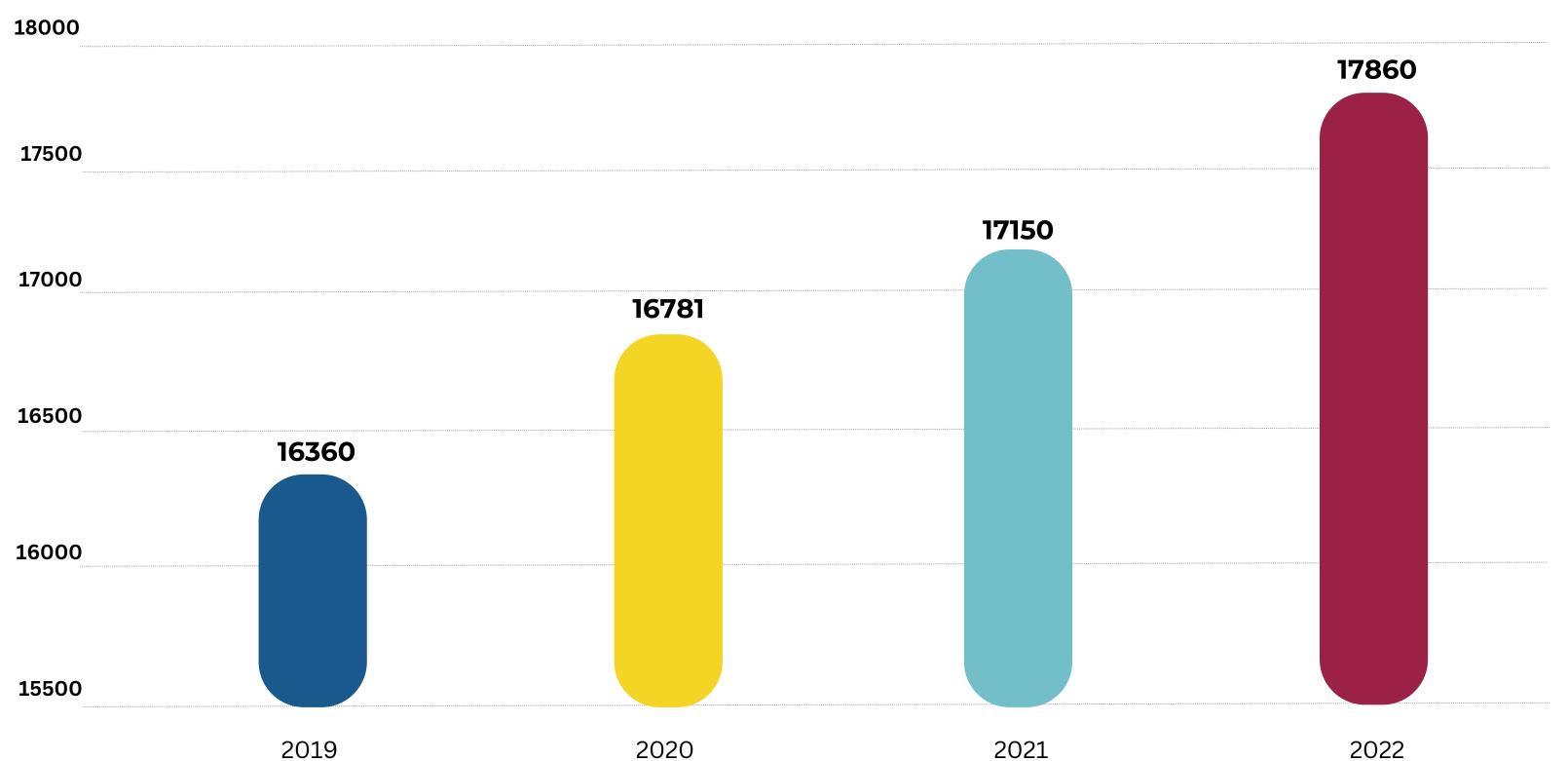




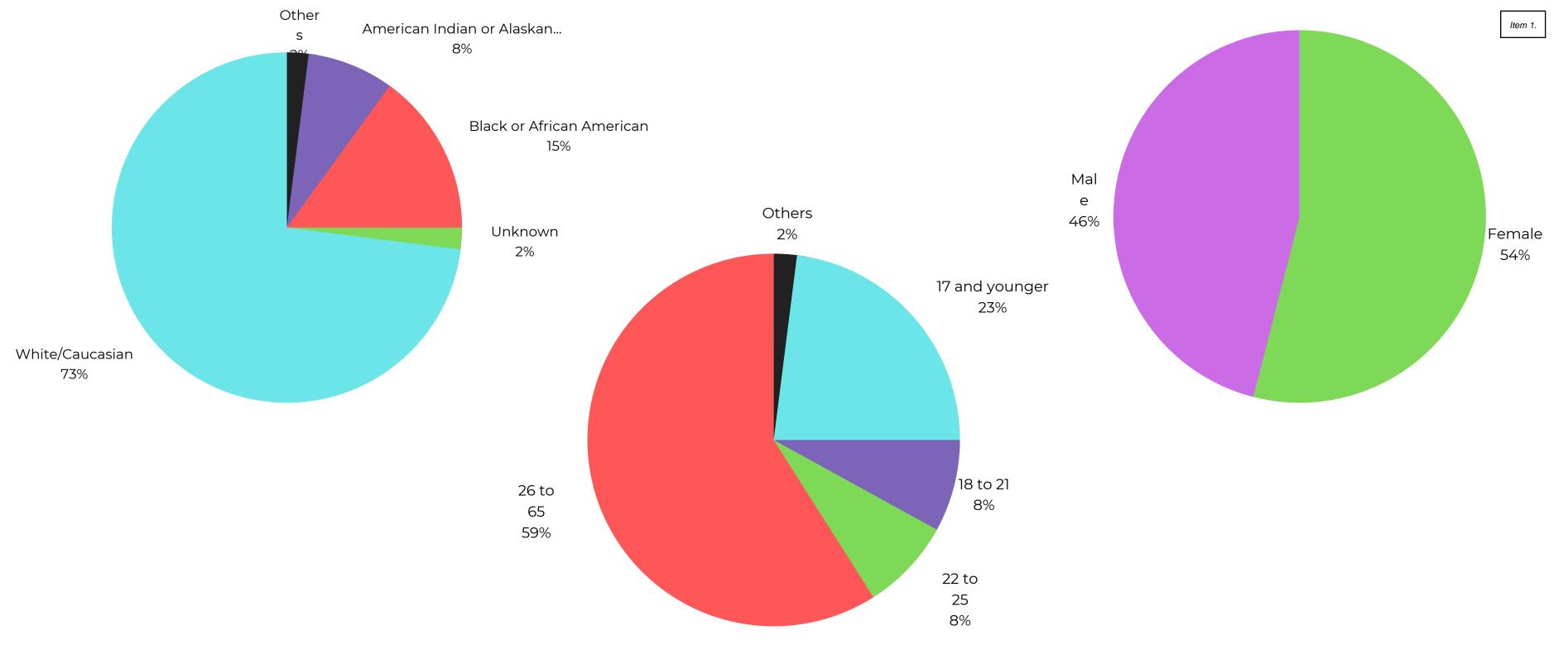


Item 1.

#### Annual number of consumers served by Red Rock $\bullet \bullet \bullet$







# Who We Serve - 2023

## **Clients Served: 17,855**

**Calls to our Access Center: 121,836** 



## THE CONTINUUM OF CARE AT RED ROCK

Adapted from a model by the Substance Abuse and Mental Health Services Administration (SAMHSA), the Continuum of Care recognizes the need to provide the appropriate level services in order to address behavioral health problems & disorders.

NOTE: The appropriate treatment level & intensity are dependent on the specific needs of the individual. As needs change, levels of care are adjusted for appropriate individualized care.

"Behavioral health is the promotion of mental health, resilience and wellbeing; the treatment of mental and substance use disorders; and the support of those who experience and/or are in recovery from these conditions, along with their families and communities."

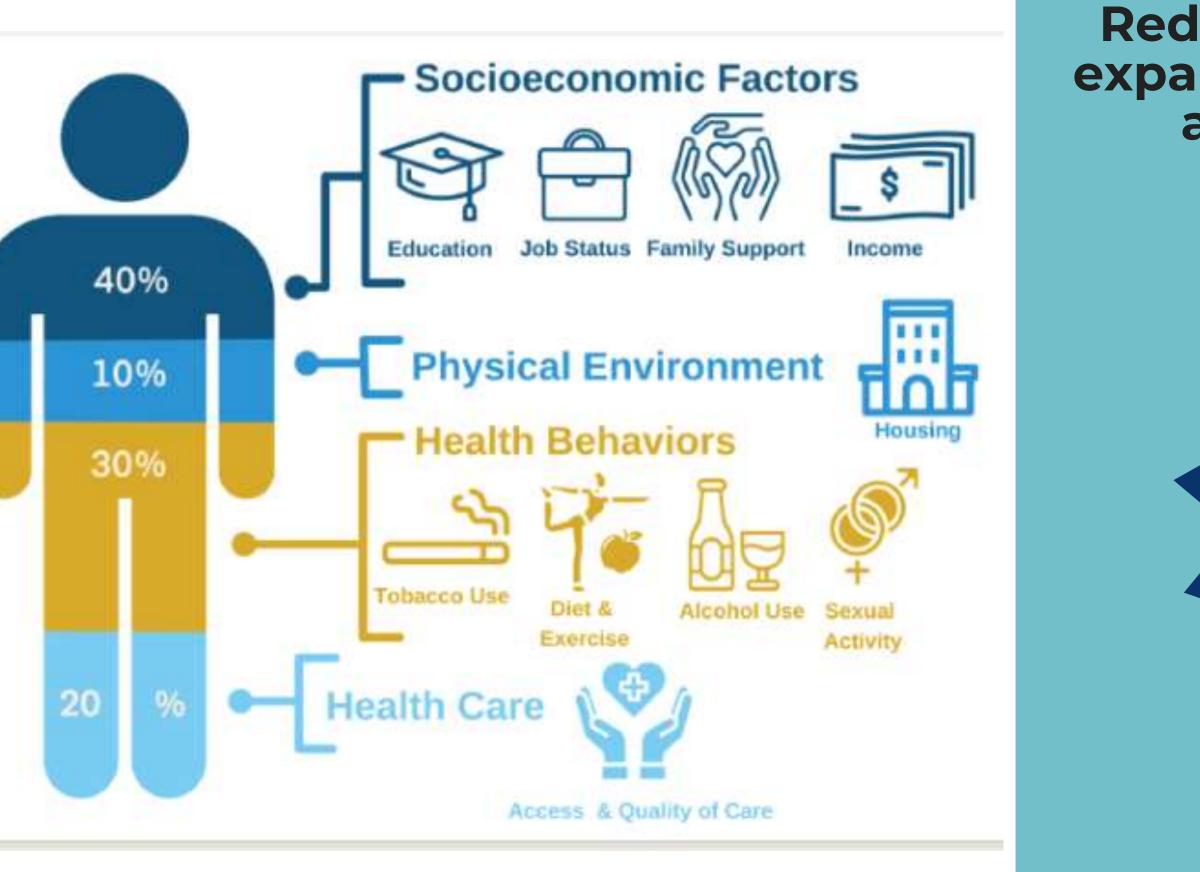
- SAMHSA



# THE CONTINUUM OF CARE TREE

The Continuum of Care Tree above displays the broad array of services offered at Red Rock BHS. Some services may have been omitted from the diagram.

Please visit our website at www.red-rock.com for a complete and updated list of services.



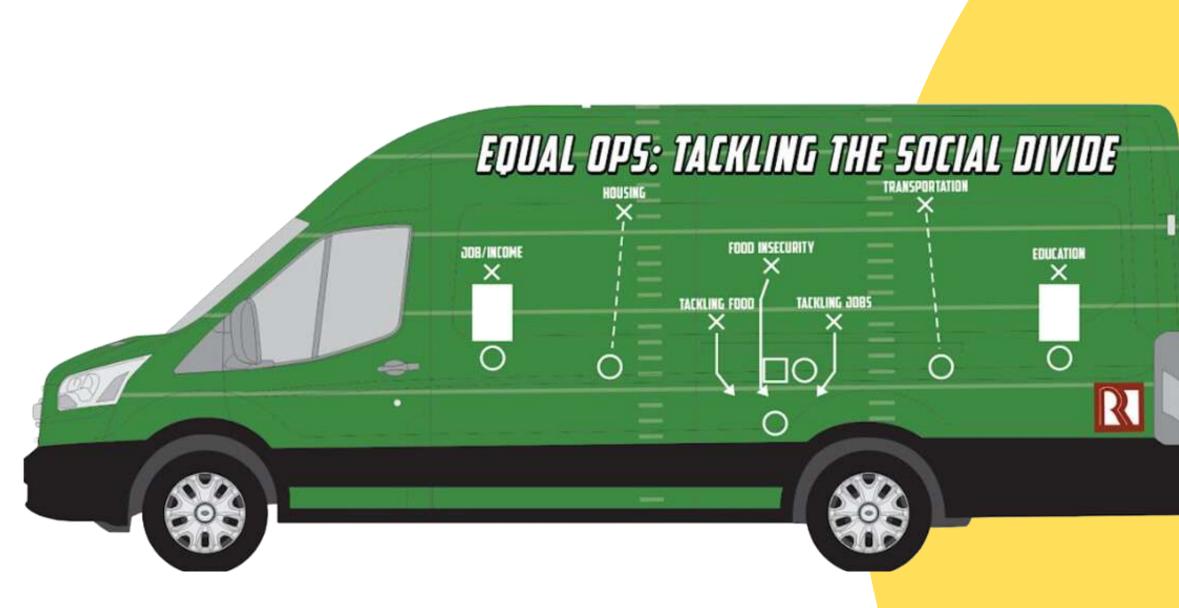
www.red-rock.com

## Red Rock received a CCBHC expansion grant for Cleveland and McClain Counties

# \$1 million a year over 4 years



## Red Rock Outreach Van for Social Determinants of Health focused on OU students, homeless and high-risk populations.



www.red-rock.com





# Red Rocks Budget



Red Rock served almost 18,000 adult children and families last year.

Red Red's budget is \$77,000,000.



930 Employees



# Red Rock Services Currently Available in Norman

Adult Crisis Unit and Urgent Recovery Center 900 East Main, Bldg. 52 | Norman, OK 73070

> Adult Outpatient Services 900 N. Porter | Norman, OK 73071

# Through an RFP process, on Oct. 6th, Red Rock was awarded a CCBHC contract with the ODMHSAS to provide CCBHC services to Cleveland and McClain counties.

www.red-rock.com







### RED ROCK BHS ADULT CRISIS UNIT/URGENT RECOVERY CENTER NORMAN, OK



"Preliminary Concept"

Funded, in part by,





## RED ROCK BHS ADULT CRISIS UNIT/URGENT RECOVERY CENTER WEATHERFORD, OK

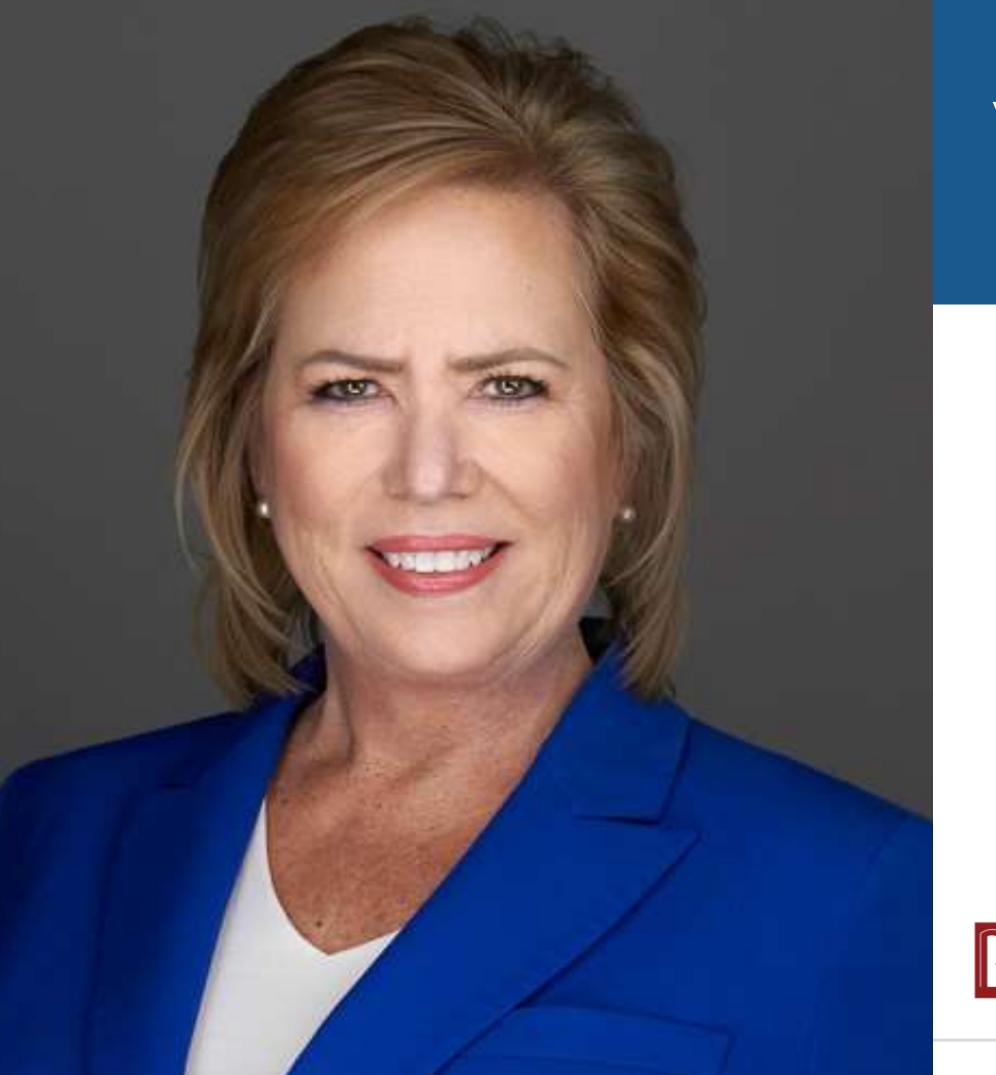


Grand Opening - July 17, 2020

Funded, in part by,



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# Verna Foust, MS, LPC-S, NBCC **Chief Executive Officer**

# **Red Rock BHS** 4400 N. Lincoln Blvd **Oklahoma City, OK**

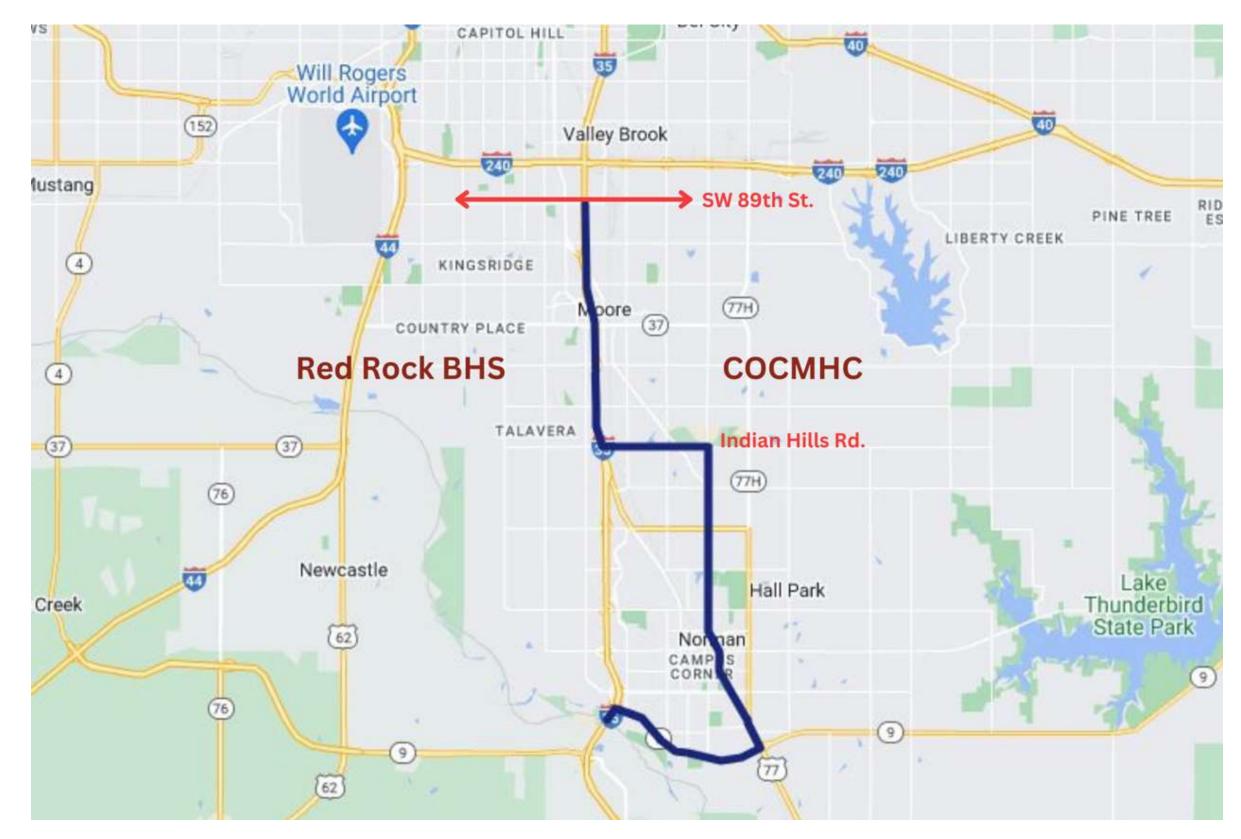
**Office: 405-425-0438** Cell: 405-620-7830 vfoust@red-rock.com

## www.red-rock.com

Red Rock Behavioral Health Services



# Cleveland/McClain Counties Catchment Areas





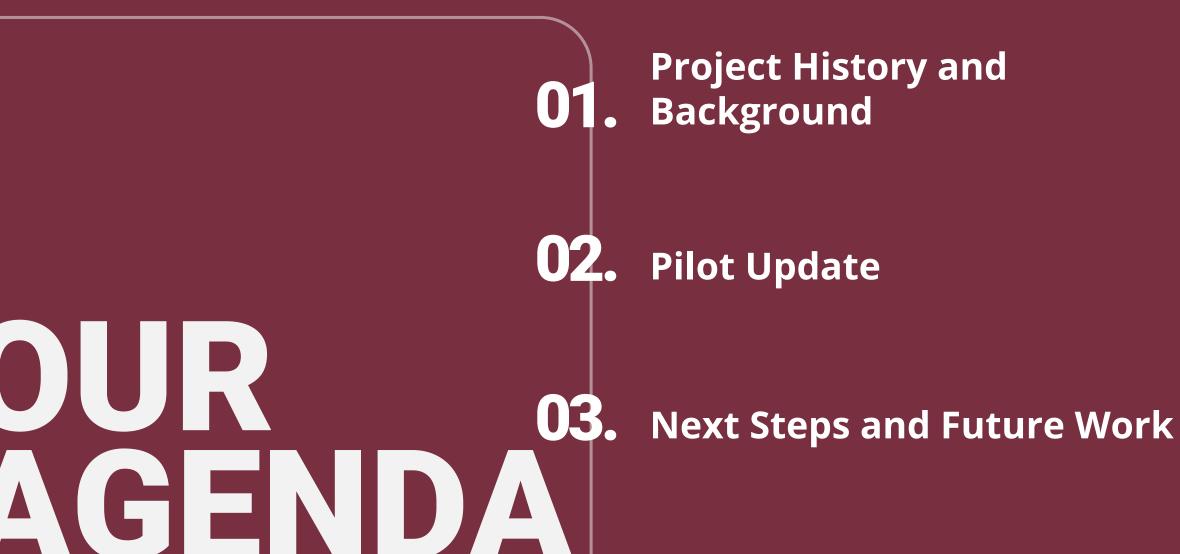


CHRIS MATTINGLY, PE COLE NIBLETT, PE MICHAEL WATTS, PE, PHD

## IPR Field Demonstration Norman City Council Update

March 19, 2024

Item 2.



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# 01. 02. 03.

Project History and Background

# Multiple studies/reports have been developed over the last 10+ years.



Central Oklahoma Master Conservancy District

Lake Thunderbird Water Reuse Feasibility Study Final Report

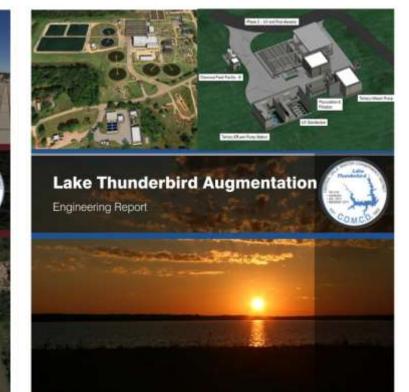
October 2012

1703-001-01

Lake Thunderbird Water Reuse Project Phase 2 – Modeling Impact of IPR on Water Quality



Prepared For Central Oklahoma Master Conservancy District (COMCD) October 2017





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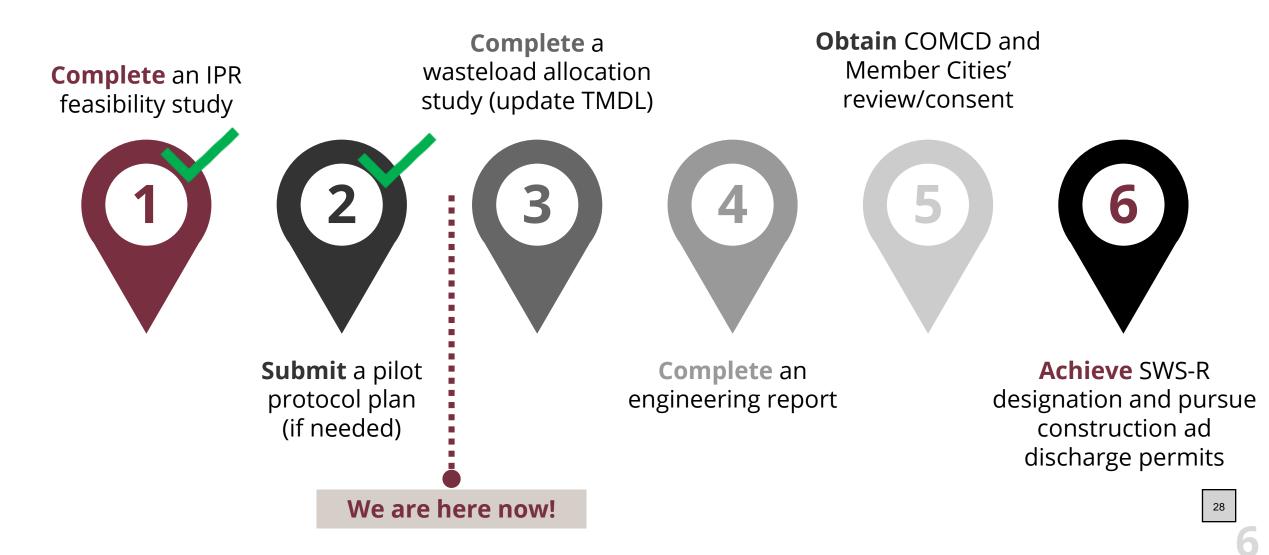
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Item 2.

## Sustained and collaborative efforts with ODEQ throughout the sixstep process for any IPR project is required.





# **01. 02. 03**.

## Pilot Update

## The goal of the Pilot is to identify a treatment approach that does not produce a brine stream, and can reliably provide potable reuse quality product water.

 $\checkmark$ 

Demonstrate the efficacy of biological nutrient removal (BNR) and tertiary treatment to <u>achieve Safe Drinking</u> <u>Water Act standards</u>



Removal of pathogens and personal care and pharmaceutical products (PPCPs) <u>without the use of</u> <u>high-pressure membranes</u>



Item 2.

# The pilot trains encompassed two existing aeration basins, a secondary clarifier, and more at the Norman WRF.

Tertiary Filtration / AOP / Disinfection Area mUCT Basin

AGS

# Two process trains simulated the multi-barrier approach **Imp**. **Imp**.

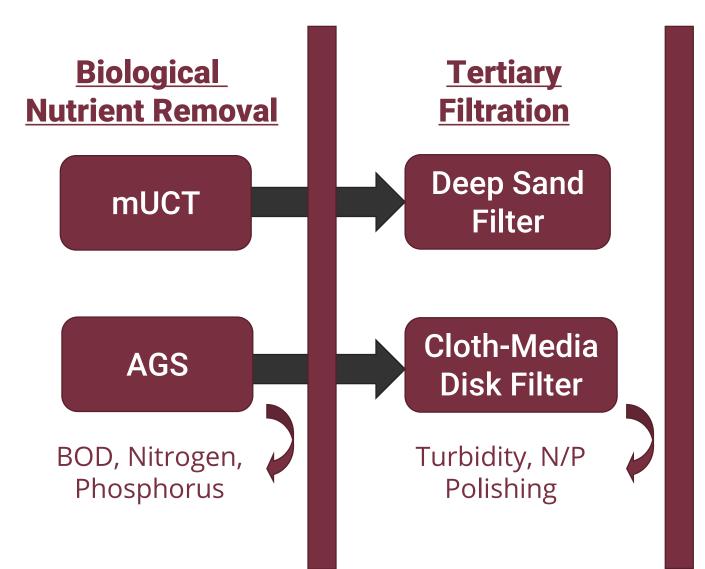
Biological Nutrient Removal



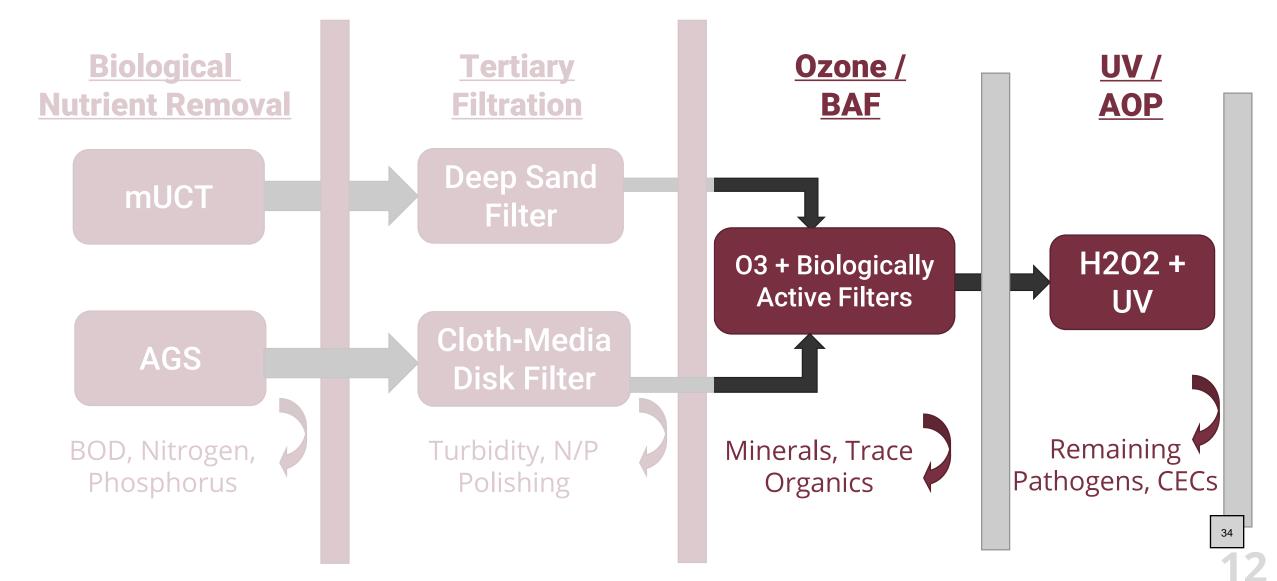


32

# Two process trains simulated the multi-barrier approach **Imm**. **Imm**



## Two process trains simulated the multi-barrier approach *Item 2.* needed at full-scale



# Two pilot-scale, tertiary filtration technologies were piloted.



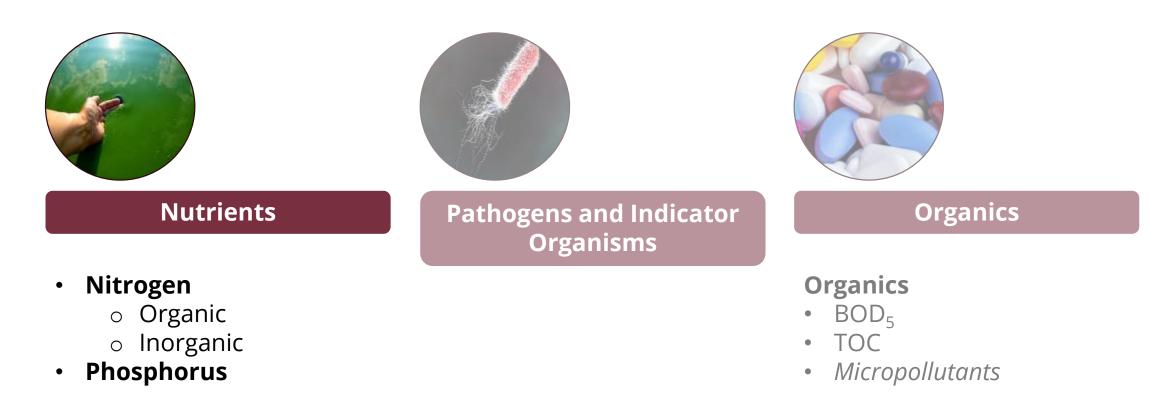
# Filtered effluents were further treated with advanced technologies (Ozone+BAF and UV+AOP).



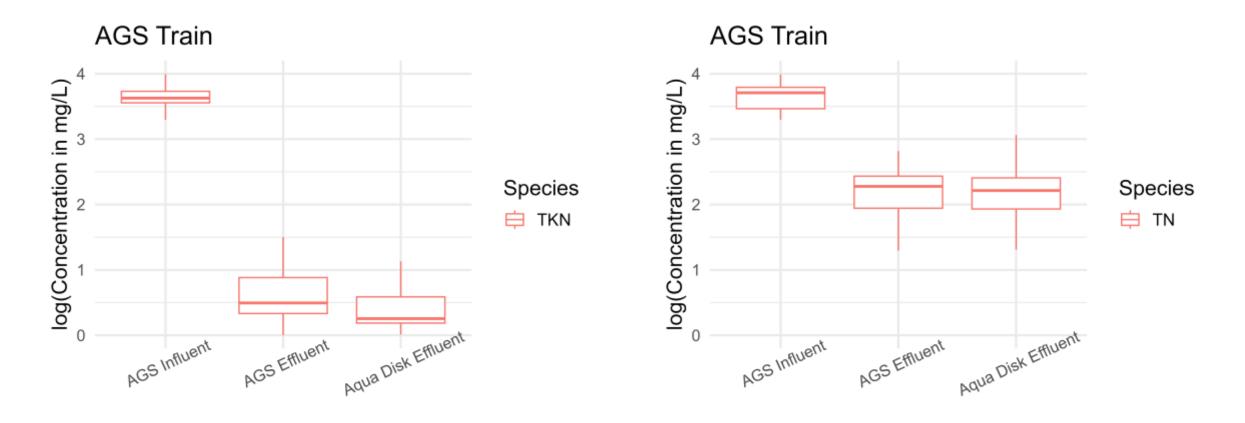
### Pilot was successful in tracking the fate of 3 major contaminant groups which will impact future operations and monitoring.



# Pilot was successful in tracking the fate of 3 major contaminant groups which will impact future operations and monitoring.

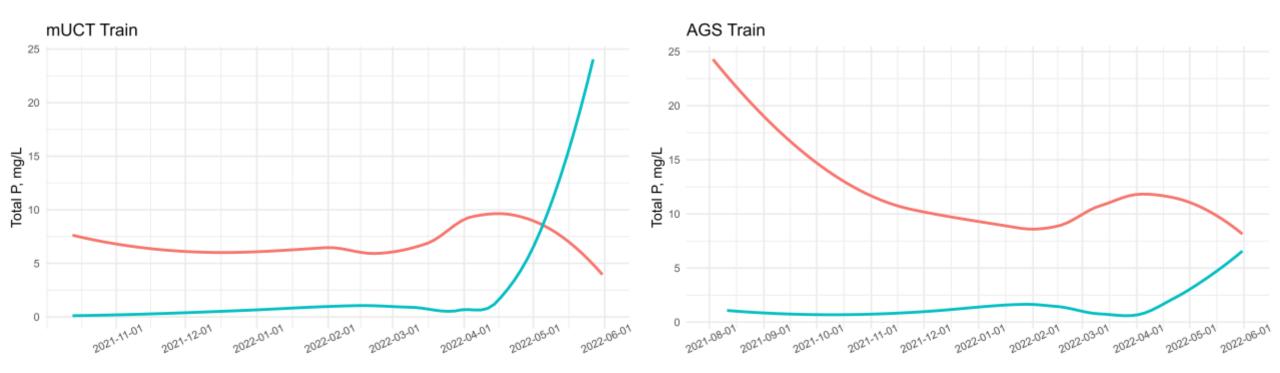


#### >3-log (99.9%) reduction in TKN and 1.5-log (96%) reduction in TN with the AGS technology and tertiary filtration.



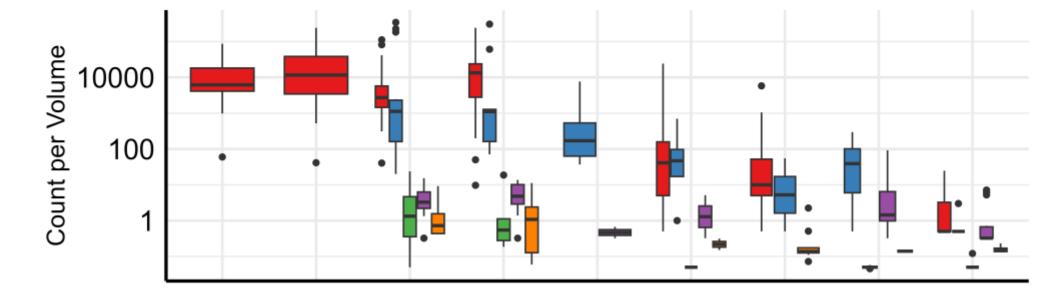
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# Both Pilot Trains maintained low effluent P, until equipment failures and storm damage in April 2022.



### Pilot was successful in tracking the fate of 3 major contaminant groups which will impact future operations and monitoring.





Organism 📫 E.coli 🛱 F+ Coliphage 🛱 Giardia 🛱 Salmonella 🛱

Frequent non-detects and single-digit pathogen counts were observed in UV reactor effluent samples. AGS Effluent

mUCT Effluent (C#6)

Aqua Disk Effluent

Supersand Effluent

Post Ozone

BAF #1

BAF #2

UV Influent

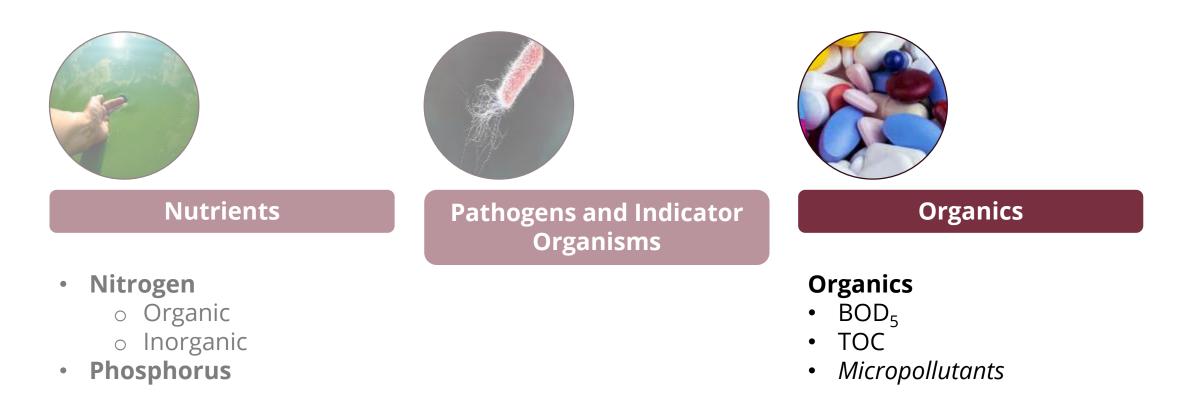
UV Effluent

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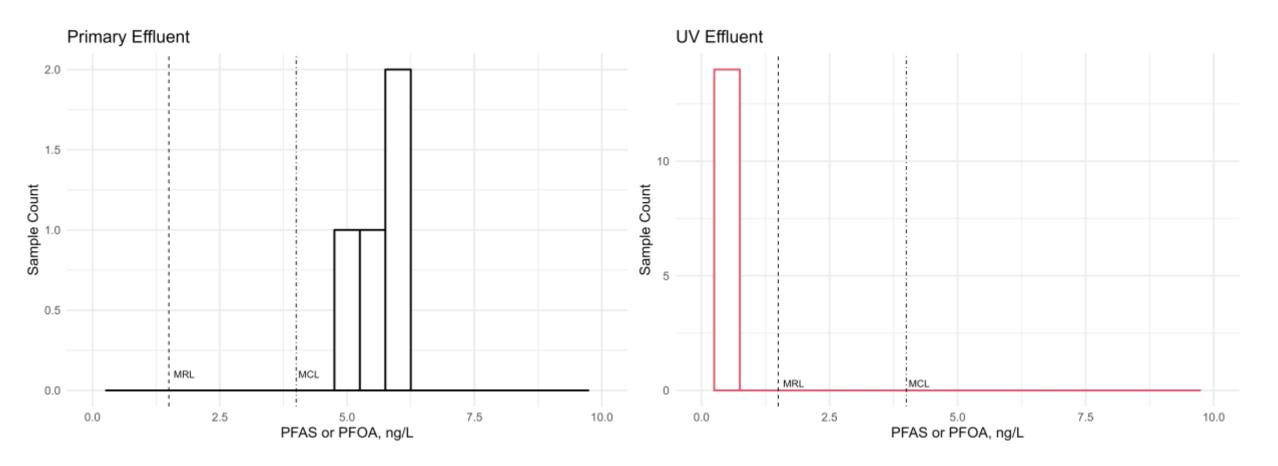
Item 2.

TCVA

### Pilot was successful in tracking the fate of 3 major contaminant groups which will impact future operations and monitoring.



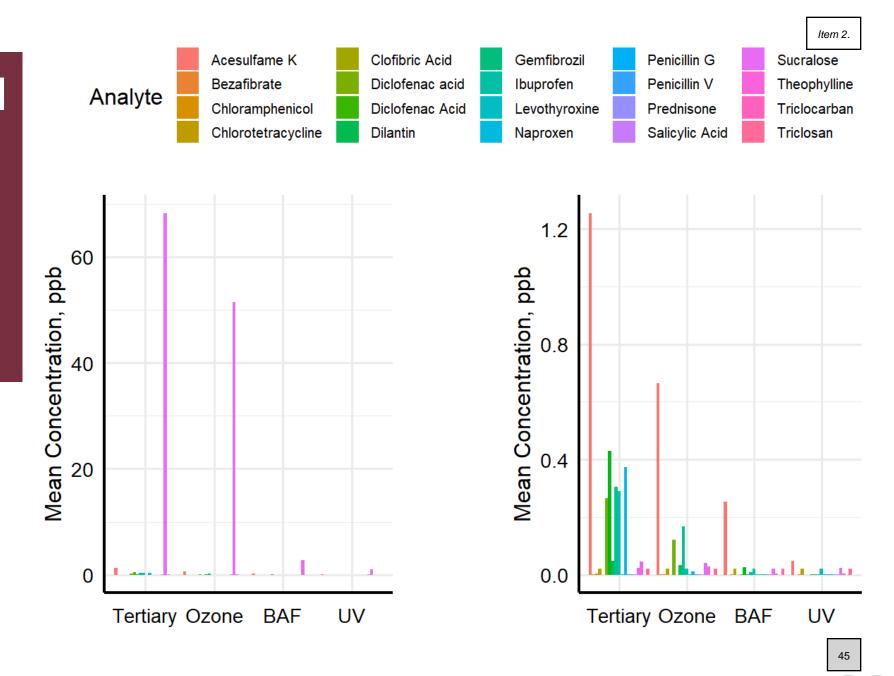
## With new, impending regulations, there was significant interest in tracking PFAS through the Pilot Trains.



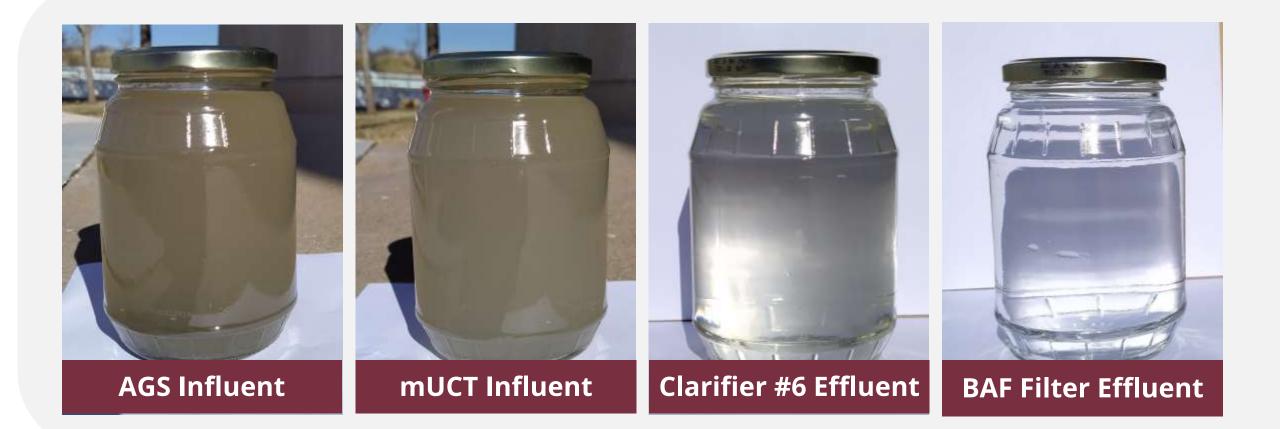
Item 2.

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For unregulated micropollutants, the target of consistent degradation was achieved.



### A picture speaks 1,000 words!



#### A picture speaks 1,000 words!



### Much more work to come!

#### ODEQ review of pilot results (ongoing)

Predictive Lake Optimization Tool (PLOT) project funded by the BOR National Water Research Institute (NWRI) advisory panel review of pilot results

# Many thanks to all of our partners!



#### THANK YOU FOR YOUR SUPPORT Item 2. LAKE THUNDERBIRD REUSE - -**JAMES M. INHOFE** U.S. SENATOR FOR OKLAHOMA **OKLAHOMA** DEPARTMENT OF COMMERCE HOUSE REPRESENTATIVES NORMAN CHAMBER State of Oklahoma AIDWEST CITY Where the Spirit Flies High WesTech WATER RESOURCES BOARD the water agency KLAHOMA WATER SURVE xylem AQUA-AEROBIC SYSTEMS, INC. The UNIVERSITY of OKLAHOMA A Metawater Company Gallogly College of Engineering School of Civil Engineering and Environmental Science





#### COLE NIBLETT, PE | GARVER



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Q&A