

DRAFT

**OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
PERMIT TO SUPPLY RECLAIMED WATER**

PERMIT NUMBER: RW22-002

ID NUMBER: S20532

In compliance with the Oklahoma Pollutant Discharge Elimination System Act (OPDES Act), Title 27A O.S. Supp., §1-3-101 *et seq.*, Oklahoma Uniform Environmental Permitting Act, Title 27A O.S. §2-14-101 *et seq.*, and the rules of the State of Oklahoma Department of Environmental Quality (DEQ) promulgated thereunder,

City of El Reno/El Reno Municipal Authority
P.O. Drawer 700
El Reno, OK 73036

is hereby authorized to supply treated municipal wastewater, also known as non-potable reclaimed water, for drilling and fracking purposes at a drilling site located at approximately

Latitude: 35° 32' 58.128" N
Longitude: 97° 57' 06.084" W

and within the boundaries of the permitted area located at approximately

NW¼, Section 4, Township 12 North, Range 7 West,
Indian Meridian, Canadian County, Oklahoma

The non-potable reclaimed water shall be used solely for the purpose of drilling and hydraulic fracturing at the approved drilling site, in accordance with applicable DEQ regulations.

This is a new permit.

The issuance date of this permit is Month Date, Year.

This permit shall become effective Month Date, Year.

This permit to supply non-potable reclaimed water shall expire at midnight Month Date, Year.

For the Oklahoma Department of Environmental Quality:

Michael B. Moe, P.E., Manager
Municipal Discharge and Stormwater Permit Section
Water Quality Division

Shellie R. Chard, Director
Water Quality Division

PART I. LIMITATIONS, MONITORING, AND REPORTING REQUIREMENTS

A. Limitations and Monitoring Requirements for Category 3 Reclaimed Water

1. Authorized Drilling Site for Category 3 Reclaimed Water

Site ID	Legal Description
R01	Drilling Site on Land Owned by the City of El Reno/El Reno Municipal Authority located in the NW¼, Section 4, Township 12 North, Range 7 West, Indian Meridian, Canadian County, Oklahoma

2. Limitations and Monitoring Requirements for Category 3 Reclaimed Water Reuse ^{a, b}

Upon completion of construction of all appurtenances to serve the City of El Reno/El Reno Municipal Authority’s supplying of Category 3 reclaimed water to Recoil Oilfield Services, LLC. which was approved under DEQ’s Construction Permit STR000009170319, the City of El Reno/El Reno Municipal Authority is authorized to supply Category 3 reclaimed water in accordance with OAC 252:656 and OAC 252:627 and the following limitations and monitoring requirements:

Limits and Monitoring Frequency for Non-Potable Reclaimed Water Supplied to Recoil Oilfield Services, LLC. ^a

Parameters		Monitoring Frequency	Limitations	Sample Type	Monitoring Location
Flow (mgd) ^{b, c}	Year round	Daily	Report	Totalized	At the Point of Entry/Sampling Point
CBOD ₅ (mg/l) ^d	Year round	1/Week	Monthly Average: < 20	Grab	
Free Available Chlorine Residual	Year round	Every 12 Hours	≥ 0.20 mg/l	Grab	
<i>E. coli</i> (MPN/100 ml)	Year round	2/Week	Monthly Geo. Mean: < 126 Daily Max.: < 406	Grab	

^a Monthly Operation Reports (MORs) shall be maintained by the City of El Reno/El Reno Municipal Authority – the supplier - and kept on site at the El Reno WWTF for three (3) years. See OAC 252:627-5-1 for additional requirements regarding MORs.

^b Only the flow of non-potable reclaimed water supplied to Recoil Oilfield Services, LLC. shall be recorded.

^c When there is no supply of non-potable reclaimed water for the entire day, report “0” for the flow in the MOR for that day and write “No Supply” in the comment column.

^d Test results performed at and for Outfall 001 in compliance with OPDES Permit No. OK0100382 for the El Reno WWTF may be used for reporting on MORs.

B. Restriction

1. This permit is exclusively for the supply of non-potable reclaimed water from the El Reno WWTF to Recoil Oilfield Services, LLC. for hydraulic fracturing in accordance with applicable DEQ and OCC regulations.
2. The City of El Reno/El Reno Municipal Authority shall not supply non-potable reclaimed water to other users or for applications other than hydraulic fracturing without prior approval from DEQ.
3. Should DEQ and/or OCC determine that non-potable reclaimed water is being discharged by Recoil Oilfield Services, LLC. or its successors and/or purchasers without authorization by a discharge permit issued by DEQ/OCC and /or EPA, DEQ may direct the City of El Reno/El Reno Municipal Authority to cease the supply of non-potable reclaimed water until DEQ issues subsequent reauthorization to recommence supplying of non-potable reclaimed water.
4. Should DEQ and/or OCC determine that non-potable reclaimed water is being used by Recoil Oilfield Services, LLC. or its successors and/or purchasers for purposes other than hydraulic fracturing, DEQ may direct the City of El Reno/El Reno Municipal Authority to cease the supply of non-potable reclaimed water until DEQ issues subsequent reauthorization to recommence supplying of non-potable reclaimed water.

C. Recordkeeping of Monitoring Results

The Monthly Operating Reports (MORs) shall be maintained by the City of El Reno/El Reno Municipal Authority – the supplier – and retained for three (3) years, and made available to the DEQ upon request.

PART II. OTHER PERMIT REQUIREMENTS

A. The following general provisions for supplying of treated wastewater (reclaimed water) must be met in accordance with OAC 252:656-27-2:

1. **Prohibition against cross connections.** Neither the supplier nor the user shall allow physical connections between the reclaimed water (treated wastewater) lines and the public water supply lines. The supplier and the user shall follow the requirements of OAC 252:626-5-15 and OAC 252:656-9-2.
2. **Flow measuring devices.** Supplier shall provide flow measuring devices to measure the amount of treated water being distributed to the user. Flow measurement devices shall have recording, totalizing and instantaneous indicating capabilities.

B. Distribution Systems

The distribution system for reclaimed water shall be operated and maintained in accordance with the following requirements:

1. Piping

All reclaimed water piping, valves, outlets and appurtenances in distribution systems shall be colored **purple** (Pantone 522) and shall be embossed or integrally stamped with a warning that includes the following:

“CAUTION: RECLAIMED WATER – DO NOT DRINK”

For all pipes, the warning shall be located on opposite sides of all pipes and repeated every three feet (3') or less.

2. Reclaimed Water Flushing System

Reclaimed water distribution system shall be designed with all appurtenances necessary to adequately flush the distribution system to prevent slime growth and the regrowth of pathogens. Flushing plan shall be maintained and followed for all reclaimed water distribution systems. The flushing system shall include provisions for disposal of flushed treated wastewater that prevent bypasses and discharges to waters of the state or elsewhere.

3. Maintenance

The City of El Reno/El Reno Municipal Authority shall maintain the structural integrity of all parts of the reclaimed water distribution system and maintain it in good working order.

4. Pump Stations

The City of El Reno/El Reno Municipal Authority shall ensure that pump stations are properly maintained and operated by doing the followings:

- a. Securing pump station(s) to prevent unauthorized access.
- b. Maintaining pump(s) in working condition.
- c. Keeping screen(s) free of debris to prevent clogging.
- d. Maintaining the required alarms in working order.

- e. Maintaining the required back-up generators and/or portable engine driven pumps in working order.
- f. Maintaining a complete set of operational instructions, emergency procedures and maintenance schedules.