



SCOTT A. THOMPSON
Executive Director

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

MARY FALLIN
Governor

PERMIT No. WT000073180131

WATER TREATMENT

PWSID No. 1021508

PERMIT TO CONSTRUCT

May 23, 2018

Pursuant to O.S. 27A 2-6-304, the Broken Arrow Municipal Authority is hereby granted this Tier I Permit to construct a pretreatment unit that consists of two (2) rapid mix basins, two-train flocculation basins, each with three (3) stages measuring 22.5-ft x 22.5-ft and side water depth of 16-ft, two (2) settling basins with plate settlers measuring 25-ft x 65-ft and side water depth of 16-ft, residual collection and pumping system with two (2) 200-gpm pumps, modifications to the chemical feed storage and pumping system and all appurtenances to serve the City of Broken Arrow, located in Section 2, T-18-N, R-16-E, Tulsa County, Oklahoma, in accordance with the plans approved on May 23, 2018.

Sludge will be disposed of in accordance with applicable rules and regulations regarding the disposal of waste sludges.

By acceptance of this permit, the permittee agrees to operate and maintain the facility in accordance with the Public Water Supply Operation rules (OAC 252:631), and to comply with the State Certification laws, Title 59, Section 1101-1116 O.S. and the rules and regulations adopted thereunder regarding the requirement for certified operators.

VARIANCES

A variance to allow the installation of plate settlers in a high rate clarification, a treatment process not covered in OAC 252:626 is granted. A variance to allow the installation of this pretreatment process was approved when the plant was originally permitted under permit No. WT000072110283. The pretreatment unit is proposed to allow for cost enhancement and reduce the number of required membrane treatment.

PROVISIONS AND CONDITIONS

This permit is issued subject to the following provisions and conditions.

- 1) That the recipient of the permit is responsible that the project receive supervision and inspection by competent and qualified personnel.
- 2) That construction of all phases of the project will be started within one year of the date of approval or the phases not under construction will be resubmitted for approval as a new project.





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- 3) That no significant information necessary for a proper evaluation of the project has been omitted or no invalid information has been presented in applying for the permit.
- 4) That the Oklahoma Department of Environmental Quality shall be kept informed on occurrences which may affect the eventual performance of the works or that will unduly delay the progress of the project.
- 5) That the issuing of this permit does not relieve the responsible parties from any damage which may accrue as the result of the location and operation of the plant in this area.
- 6) That before placing this facility into service, at least two samples of the water, taken on different days, shall be tested for bacteria to show that it is safe for drinking purposes.
- 7) That any deviations from approved plans or specifications affecting capacity, flow or operation of units must be approved by the Department before any such deviations are made in the construction of this project.
- 8) That the water leaving the plant will be non-corrosive as determined by a calcium carbonate saturation index (langelier index), and the water shall contain at least 1.0 mg/l free chlorine or 2.0 mg/l of combined chlorine.
- 9) The issuance of this permit does not relieve the responsible parties of any obligations or liabilities which the permittee may be under pursuant to prior enforcement action taken by the Department.
- 10) That the permittee is required to inform the developer/builder that a DEQ Storm Water Construction Permit is required for a construction site that will disturb one (1) acre or more in accordance with OPDES, 27A O.S. 2-6-201 et seq. For information or a copy of the GENERAL PERMIT (OKR10) FOR STORM WATER DISCHARGES FROM CONSTRUCTION ACTIVITIES, Notice of Intent (NOI) form, Notice of Termination (NOT) form, or guidance on preparation of a Pollution Prevention Plan, contact the Storm Water Unit of the Water Quality Division at P.O. Box 1677, Oklahoma City, OK 73101-1677 or by phone at (405) 702-8100.





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Failure to appeal the conditions of this permit in writing within 30 days from the date of issue will constitute acceptance of the permit and all conditions or provisions.

Rocky Chen, P.E., Engineering Manager, Construction Permit Section
Water Quality Division

