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AMENDED PERMIT No. ST000014200314

SEWAGE TREATMENT

FACILITY No. S-23528

**AMENDED PERMIT TO CONSTRUCT**

September 27, 2022

Pursuant to O.S. 27A 2-6-401, the City of Oklahoma City is hereby granted this Amended Tier I Permit to construct one (1) new headworks that includes new influent pumps, a new diversion structure, two (2) new multi-rake mechanical bar screens, as well as repurposing the existing influent pump station and FEB pump station, one (1) new grit removal facility with two (2) vortex grit separators, one (1) new extended aeration oxidation ditches that are 418 feet long, 126 ft. wide, and a water depth of approximately 17 feet per basin, two (2) final clarifiers with a diameter of 130 feet and a side water depth of 15 feet, one (1) RAS/WAS pump station, new blowers for the existing aerobic digesters, one (1) thickener building with a Huber DISC Thickener mechanical thickener, tertiary filter basins with 10-µm cloth media filters, replacement of the current gaseous chlorination and de-chlorination facilities with bulk liquid systems, a re-aeration system consisting of two (2) re-aeration basins, one (1) effluent pump station with three (3) pumps, 6,250 linear feet of fifty-four (54) inch HDPE effluent pipe, one (1) new outfall along the north bank of the Canadian River that will consist of a reinforced concrete flared wing-wall headwall with a concrete apron and toe wall, one (1) new SCADA system, and all appurtenances and yard piping to serve the South Canadian Wastewater Treatment Plant Improvements, located in Section 30, T-10-N, R-3-W & Section 36, T-10-N, R-4-W, Cleveland County, Oklahoma, in accordance with the plans approved on March 22, 2022.

By acceptance of this permit, the permittee agrees to operate and maintain the facility in accordance with the Discharge - OPDES (NPDES) rules OAC 252:605 and to comply with the State Certification laws, Title 59, Section 1101-1116 O.S. and the rules and regulations adopted thereunder regarding the requirements for certified operators.

**VARIANCES**

- 1) A variance from OAC 252:656-13-2(g)(4) which requires a propeller with a variable speed drive to operate the unit based on the plant flow is granted. As shown, the variable speed drive is not typically used in the plant's application.
- 2) A variance from OAC 252:656-16-1(g)(4)(A) which requires the introduction of raw sewage and returned sludge immediately upstream of the rotor that is farthest from the effluent control weir is granted. The plant's application has been proven effective in other Wastewater Treatment Plants.

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- 3) A variance from OAC 252:656-23-3 which requires either cascade aeration, mechanical aeration, or diffused-air aeration as the approvable options for post-aeration is granted. The treatment plant will use oxygenation for the post-aeration process.

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.
- 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 of 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 the recipient of the permit is responsible for the continued operation and maintenance of these facilities in accordance with the rules and regulations adopted by the Environmental Quality Board and that this Department will be notified in writing of any sale or transfer of ownership of the facilities.
- 7) That these facilities are approved for an average hydraulic loading of 8.66 MGD or an organic load of 15,500 pounds of BOD<sub>5</sub>/day. Before additional loading is connected to the system, plans for suitable enlargement of the facilities shall be submitted to the Oklahoma Department of Environmental Quality for approval.
- 8) That the permittee is responsible for complying fully with NPDES permit provisions and submitting a permit renewal application 180 days prior to permit expiration.

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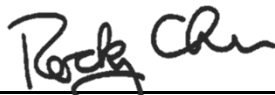
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- 9) That any deviations from approved plans or specifications affecting capacity, flow or operation of units must be approved by the Department before any such deviations are made in the construction of this project.
- 10) That any notations or changes recorded on the official approved set of plans and specifications in the Oklahoma Department of Environmental Quality files shall be a part of the plans as approved.
- 11) As-built plans of this project shall be placed on file with this Department within two months of the completion of the work or a certification by the engineer shall be submitted certifying that no changes have been made in the work as approved.
- 12) 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.

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 and provisions.



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