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TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

January 9, 2025

Mr. Wayne Peyton, President
AeroGreen Wastewater Technologies, LLC
P.O. Box 7132
Beaumont, TX
77726-7132

Re: Approval of proprietary OSSF treatment system for:
AeroGreen Wastewater Technologies, LLC
Model 800AG-10

Dear Mr. Peyton:

We have received your request for a Texas Commission on Environmental Quality (TCEQ) review of the above-referenced proprietary system, with supporting documentation, on December 7 and 23, 2024. Cindy Rojas Annicchiarico of the TCEQ Technical Programs Team conducted the review, as required by 30 Texas Administrative Code (TAC) §285.5(b)(3). After reviewing your request and supporting documentation, TCEQ has determined that the treatment product meets the applicable technical requirements. **This letter serves as notification of approval for use in the State of Texas as an approved proprietary system.** Please be advised, the review of individual OSSF applications is a separate action and this letter is not an authorization to install an individual OSSF.

The Gulf Coast Testing (GCT) Supplemental Report (SPE530) for Model 500AG covering the 800AG-10 model, December 1, 2024, details how the 500AG 500-gallon-per-day system, previously approved by TCEQ, is scaled up. In this report, the 800AG-10, using a pretreatment compartment and pump tank, was provided to conduct this review. TCEQ previously approved the 800AG on June 13, 2019. The 800AG-10 uses a 512-gallon pretreatment compartment and a 1230-gallon pump tank. The pump tank is not part of the biological treatment process and therefore was not analyzed by GCT. All pump chambers/ tanks are subject to requirements specified in 30 TAC §285.34(b). Both models are tested and listed by GCT as Class I treatment systems under NSF Standard 40. Based on GCT's certification and TCEQ's prior approval of the 800AG, the 800AG-10 is approved.

Important conclusions from the provided GCT report are as follows:

- The Model 500AG wastewater treatment unit was fully tested and conforms with the guidelines and procedures established by the NSF Standard 40. This unit had an aeration compartment volume of 560 gallons and a clarifier volume of 190 gallons. The unit achieved an average effluent CBOD5 of 9 mg/L and an average effluent TSS of 9 mg/L.
- Under Section 1.3 of Standard 40, the Model 500AG wastewater treatment unit was analyzed for a change in construction. A pretreatment tank and a pump tank were added to the proposed Model 800AG-10 800 gallon-per-day treatment system. Both units are constructed of 3000 psi strength concrete with the same flow designs. Thus, the proposed Model 800AG-10 meets the material and design and construction specifications of Standard 40.
- Under Section 1.4 of Standard 40, the Model 500AG wastewater treatment unit was analyzed for an increase to 800 gallon-per-day. The scale-up of the proposed 800AG-10

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is proportional and equivalent to the tested and certified Model 500AG. Thus, for a flow rate of 800 gallon-per-day, the proposed Model 800AG-10 has sufficient compartment volumes to meet the additional flow rate of 800 gallon-per-day.

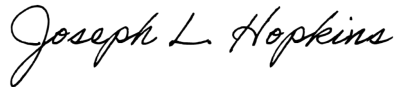
- Under Section 5.11 of Standard 40, the proposed Model 800AG- 10 800 gallon-per-day treatment unit will use the same aerators to provide the proper amount of aeration to realize similar effluent values achieved by the tested Model 500AG. Approved aerators are presented in Table 1.
- The Model 800AG-10 meets all the requirements for the Standard 40-2023 Certification.

Approved Aerators for Model 800AG-10 Flow Rate (gpd)	
Hiblow HP-100A	Thomas AP-80

Table 1. Approved Aerators, as cited in the Gulf Coast Testing (GCT) Supplemental Report (SPE530) for Model 500AG covering the 800AG-10 model, December 1, 2024

If you have any questions, or if we may be of assistance to you, please contact Cindy Rojas Annicchiarico in the TCEQ Technical Programs Team at (512) 239-5146 or via e-mail at Cindy.Annicchiarico@tceq.texas.gov.

Sincerely,



Joseph L. Hopkins, P.G.
Technical Programs Team Leader
Texas Commission on Environmental Quality

JLH/CRA