



COMMONWEALTH of VIRGINIA

Department of Health
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Richmond, VA 23218

Colin M. Greene, MD, MPH
State Health Commissioner

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July 13, 2022

Colin Bishop, Chief Executive Officer

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Anua

P.O. Box 77457

Greensboro, NC 27417

VIA ELECTRONIC AND REGULAR MAIL

RE: Addition of Two Units to Treatment Level 3 Approval of Quanics BioCoir

Dear Mr. Bishop:

On June 6, 2022, you notified the Virginia Department of Health (VDH) that two additional models of the Quanics-BioCoir wastewater treatment unit received NSF 40 approval. These two models, Q-ATS-A400-80/20-BC and Q-ATS-A400-2-80/20-BC, are considered proportionally equivalent to the other approved models by NSF International.

As a result, these two models are added to the listing below of BioCoir wastewater treatment unit models listed as “Generally Approved” under VDH’s GMP #2016-03 and in accordance with the Treatment Level 3 (TL-3) general approval requirements in the *Regulations for Alternative Onsite Sewage Systems* (12 VAC5-613, *AOSS Regulations*).

Virginia TL-3 BioCoir Chart					
Pod Model	Bedrooms	Flow Rating (gpd)	Media Volume (ft ³)	Media Loading (gpd/ft ³)	Pod Housing
ATS-SCAT-3-BC-200	1	150	16	9.4	Quanics FRP
ATS-SCAT-4-BC-400	2	300	32	9.4	Quanics FRP
ATS-SCAT-6-BC-650	3	450	53	8.5	Quanics FRP
ATS-SCAT-8-BC-1000	4	600	85	7.1	Quanics FRP
ATS-540-BC-N-TL3	4	600	81	7.4	Infiltrator IM-540
ATS-1060-BC-N-TL3	6	900	136	6.6	Infiltrator IM-1060
ATS-NS500-BC-N-TL3	4	600	82	7.3	Norwesco-Snyder Next Gen D2 500
ATS-NS750-BC-N-TL3	5	750	112	6.7	Norwesco-Snyder Next Gen D2 750
ATS-NS1000-BC-N-TL3	6	900	137	6.6	Norwesco-Snyder Next Gen D2 1000
ATS-NS500-80/20-BC-N	4	600	82	7.3	Norwesco-Snyder Next Gen D2 500
ATS-NS750-80/20-BC-N	5	750	112	6.7	Norwesco-Snyder Next Gen D2 750
ATS-NS1000-80/20-BC-N	6	900	137	6.6	Norwesco-Snyder Next Gen D2 1000
Q-ATS-A400-80/20-BC	3	450	67	6.7	Anua A400
Q-ATS-A400-2-80/20-BC	6	900	134	6.7	Anua A400

Mr. Colin Bishop

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The BioCoir treatment unit is a recirculating media filter which is preceded by a septic tank. The settled effluent flows into a recirculation tank with a pump that time doses the media filter. The standard recirculation rate is 80:20 or 4:1. The minimum septic tank size is two times the design flow. The recirculation tank is sized as one times the design flow. Please see the original review memo dated May 22, 2020, for a discussion on loading rates and design flows with respect to TL3 testing and NSF testing.

Influent and effluent nitrogen testing was conducted during the TL3 testing. Twenty systems were tested quarterly for a year. Negative values were dropped from the evaluation. A total of 65 data points were used to generate a 69% total nitrogen reduction projection. These two new TL3 BioCoir units will be added to the GMP 2013-01 listing for 50% nitrogen reduction based on the sampling conducted during the TL3 field test.

If you have any questions, please contact Marcia Degen at Marcia.Degen@vdh.virginia.gov or by phone at (804) 387-1883.

Sincerely,

DocuSigned by:


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7/13/2022 | 4:38:13 PM EDT

Lance Gregory, Division Director

Division of Onsite Sewage and Water Services,
Environmental Engineering & Marina Programs

Cc: Marcia Degen, Technical Services Manager