

Please note the influent Total Nitrogen of 26.3 mg/L and the 9.6 mg/L after treatment. This results in a 63.4% reduction in Nitrogen. Please note the Advantex Information to the right.

1/2
11/6/2006

Please note the influent Total Nitrogen. This is the starting point. The out is the effluent after treatment. Please Note: The Advantex Unit reduced Total Nitrogen to 10 mg/L from 34 mg/L. This is a 70.5% reduction in Nitrogen

Average Performance Data for Components of Performance-Based Treatment Systems that have Nutrient Data on File with the Bureau of Onsite Sewage Programs 11/06/2006 by E. Roeder

Component/ Configuration	Type of testing	CBOD5 (mg/L)		TSS (mg/L)		TN (mg/L)		TP (mg/L)		Vendor	Vendor Contact Phone	Vendor web-site	Innovative Status
		in	out	in	out	in	out	in	out				
Advantex 20x	NSF-40	162	5	291	4					Oreco Systems	1-800-348-9843	http://www.oreco.com/	Yes
Advantex 20x Mode 1	N-testing concurrently with NSF-40	166	5	292	4	33	12			Oreco Systems	1-800-348-9843	www.oreco.com/	Yes
Advantex 20x Mode 3	N-testing after NSF- 40	112	7	170	9	34	10			Oreco Systems	1-800-348-9843	www.oreco.com/	Yes
Aerocell ATS SCAT- 8-AC-C500	NSF-40+Nitrogen	240	2	290	2	40	9.3			Quanics	1-877-quanics	www.quanics.net/	Yes
EcoPure 300	Innovative in Florida (n=25/9 of 1 system)	327	7.7	421	6.2	58	31	11	5.1	Eco-Pure Wastewater Systems	1-888-999-0936	www.eco- purewastewatersystems.co m	Passed
EnviroFilter C	Innovative in Florida (n=26/24 of 5 systems)		7.6		5.3		21.7		5.8	Earthtek Environmental Systems	904-381-0405		Passed
Enviro-Guard 0.75 (Multi-Flo)	NSF+Nitrogen with reduced sampling	220	5	220	5	46	20			Consolidated Treatment Systems	937-746-2727	www.consolidatedtreatmen t.com	n/a
HOOT 500 AND	N-testing (25 samples) with NSF- 40	196.1	2.2	194.3	1.5	26.3	9.6	8.8	3.1	Hoot Aerobic Systems	337-474-2804	www.hootsystems.com	n/a
MICRO-FAST	Keys Study, Phase I (12 samples)	138	2.6	117	4.63	38	11	8.4	5.4	Bio-Microbics	1-800-753-3278	www.biomicrobics.com	n/a
MICRO-FAST	Keys Study, Phase II (n=13/ 14)	110	1.2	92.	3.9	48	11.5	8.7	6.6	Bio-Microbics	1-800-753-3278	www.biomicrobics.com	n/a
MICRO-FAST	NSF-40+Nitrogen		9		7	61.4	13.3			Bio-Microbics	1-800-753-3278	www.biomicrobics.com	n/a
RETROFAST 0.375	ETV	150	12	180	28	39	19			Bio-Microbics	1-800-753-3278	www.biomicrobics.com	Yes
Septitech Model 400	ETV	250	5.4	150	3	39	14			Septitech	207-657-5252	www.septitech.com	Yes
Singulair 960 w/ Biokinetics	NSF-40	184	6	238	10					Norweco	419-668-4471	www.norweco.com/html/m ain.htm	n/a
Singulair 960 w/ Biokinetics phase 1 w/ recirc	16 N-tests at NSF- testing facility	167		226		25	6.8			Norweco	419-668-4471	www.norweco.com/html/m ain.htm	n/a
Singulair 960 w/ Biokinetics phase2 no recirc	8 N-tests at NSF- testing facility	167		226		25	11.8			Norweco	419-668-4471	www.norweco.com/html/m ain.htm	n/a
ZeroImpact	Innovative in Florida (n=33/29 of 5 systems)		10.49		16.63		23		1.4	Biotech Systems LLC	352-376-8016	www.biofilter.com	Yes

The table summarizes testing results for treatment components that might be used as part of a performance-based treatment system designed by engineers. These components are intended by their manufacturers to achieve oxidation of wastewater and concurrent removal of CBOD5, TSS, and reductions of nitrogen and/or phosphorus in the effluent.

These components have been approved in Florida as indicated in the column “innovative status” for use in conjunction with engineer-designed performance-based treatment systems. “yes” indicates that the components are currently in innovative status. Innovative status indicates that such approval has occurred in a limited fashion, providing for a limited number of permits and requiring additional testing.; “passed” indicates that components have completed innovative testing in Florida; “n/a” indicates that the use of previously approved ATU’s in nutrient-reducing systems was accepted based on third-party testing data.

The engineer design will establish performance levels, and design the system as a whole to meet them.

Approval of treatment receptacles is a separate matter and should be checked under the tank approval listings.

If you find errors, want to submit additional data or have questions, please contact Eberhard Roeder at Eberhard_roeder@doh.state.fl.us

DISCLAIMER:

THIS LIST DOES NOT REPRESENT OR IMPLY AN ENDORSEMENT OF ANY PARTICULAR COMPANY, PERSON, PRODUCT, CONFIGURATION OR TECHNOLOGY. THE LIST REFLECTS THE COMPILER’S INFORMATION AS OF 11/06/2006.

THE FIELD OF ADVANCED WASTEWATER TREATMENT FOR ONSITE SYSTEMS IS IN A STATE OF CHANGE.