



Fixed Film Aerobic Treatment Unit
Flows < 10,000 gpd with High Strength Waste

This Management Plan identifies some basic requirements for proper operation and maintenance of the Bio-Microbics wastewater treatment device for high strength wastewater (HSW) use up to 10,000 gpd. Refer to the manufacturer’s Operation and Maintenance Manual for Bio-Microbics wastewater treatment products for detailed instructions on proper system operation and maintenance. Refer to your soil treatment system management plan (below or above-grade) for additional management requirements.

The Bio-Microbics Manual, submitted by the manufacturer as part of the registration of this product in Minnesota, can be found at the Minnesota Pollution Control Agency’s website:

<http://www.pca.state.mn.us/programs/ists/productregistration.html>.

SYSTEM COMPONENT	TASK	MINIMUM FREQUENCY	RESPONSIBLE PARTY
BIO-MICROBICS HighStrengthFAST Products with Flows up to 10,000 gpd with High Strength Wastewater	Monitor alarm	On-going	User
	Clean vents on housing	Monthly for First Six Months Adjusted based on performance thereafter	User or Service Provider
	Monitor flow		Service Provider
	Verify flow splitting devices are performing accurately & adjust as needed		
	Clean air filter on blower		
	Check mechanical and electrical components		
	Perform operational field tests on influent/effluent quality including odor, color, turbidity, temperature, dissolved oxygen and pH as appropriate		
	Sample effluent as required in the local Operating Permit		
	Check sludge level in grease trap and		

	septic tanks		Maintainer
	Check sludge levels in aerobic tanks; follow manufacturers recommendations for solids removal refilling with clean water after pump out		
	For seasonal use, follow manufacturers guidelines	As required based on seasonal usage	Service Provider

Items not permitted in the Bio-Microbics wastewater systems are specified in the Bio-Microbics Manual for Minnesota.

At the time of each service visit, the CIDWT Form 7-2: Aerobic Treatment Unit should be completed or similar form. See <http://www.onsiteconsortium.org/omspchecklists.html>. **Sampling requirements** are specified in local operating permits. The protocol for collection of wastewater samples is specified in the Bio-Microbics Manual for Minnesota.

Minimum sampling frequencies:

Treatment Goal	Design Flow (gpd)/ Waste Strength	Parameter	Minimum Sampling Requirement*
C	<5,000 >5,000 – 10,000	BOD and TSS (O&G only recommended if BOD not met)	Bi-annually Quarterly

*These minimum sampling requirements assume a system that is operated year round. These values may be reduced if the system is not used year round.