

January 1, 2025

Jeff Luthman, Vice President
Consolidated Treatment Systems, Inc.
1501 Commerce Center Drive
Franklin, OH 45005

RE: Product Registration Renewal - Notice of Proprietary Treatment Product Listing

Description: Sewage Treatment System, Suspended Growth with Filtration Process
Manufacturer: Consolidated Treatment Systems
Product Name: Nayadic®
Model Numbers: Nayadic M-6A, Nayadic M-8A, Nayadic M-1050A, Nayadic M-1200A,
and Nayadic M-2000A (Max Design Flow 500, 600, 800, 1000, and
1500 GPD per unit)
Product Listing: Category A (residential sewage)

Dear Jeff Luthman:

Thank you for your application for product renewal for Consolidated Treatment Systems Nayadic Model Series, which includes the following models: Nayadic M-6A, Nayadic M-8A, Nayadic M-1050A, Nayadic M-1200A, and Nayadic M-2000A.

In accordance with Minn. R. chs. 7080 to 7083, the MPCA has reviewed Consolidated Treatment System's submitted materials requesting registration for Category A (residential) treatment product listing of the Nayadic Model Series in this application. Based on the submitted documentation, the MPCA finds that the Nayadic Model Series is eligible to be registered per Minn. R. 7083.4030 as meeting the following treatment level:

- **Treatment Level B2** (cBOD5 of 25 mg/L, TSS of 30 mg/L) without disinfection
- **Treatment Level C** (cBOD5 of 125 mg/L, TSS of 60 mg/L and Oil & Grease of 25 mg/L) without disinfection

The Nayadic Model Series is registered with a design rated capacity of 500, 600, 800, 1000, and 1,500 gallons per day per unit, as shown in Table 1.

Subject to this determination, the Nayadic Model Series, including the Nayadic M-6A, Nayadic M-8A, Nayadic M-1050A, Nayadic M-1200A, and Nayadic M-2000A will be placed on the List of Registered Subsurface Sewage Treatment System (SSTS) Products. The product information listed in this Notice of Proprietary Product Listing will be maintained on the MPCA website and may not be altered or misrepresented by the manufacturer or any other person without permission by the MPCA.

Table 1. Nayadic Model Series

Product Name Model	Treatment Process	Design Flow (gpd)	BOD ₅ Removed (lbs/day)	Highest Treatment Level	Important Product Use Information
Nayadic Model M-6A	Suspended Growth	500	3.5	B2	<ul style="list-style-type: none"> • Notice of Product Listing <ul style="list-style-type: none"> ○ MPCA Letter ○ Conditions of Registration ○ Expiration Date • Nayadic Manual <ul style="list-style-type: none"> ○ Submitted Drawings ○ Known Limitations ○ Installation ○ Operation & Maintenance ○ Owners Information ○ Regulators Checklist ○ Service Contract • Management Plan • Operating Permit Template
Nayadic Model M-8A	Suspended Growth	600	4.0	B2	
Nayadic Model M-1050A	Suspended Growth	800	4.6	B2	
Nayadic Model M-1200A	Suspended Growth	1000	4.8	B2	
Nayadic Model M-2000A	Suspended Growth	1500	7.7	B2	

The registration of the products in Minnesota is contingent upon compliance with the following conditions:

1. Products must be used in compliance with MPCA rules and the plans and design specifications provided. Any deviation from the plans and specifications shall not be permitted unless authorized by National Sanitation Foundation (NSF) and, in writing, by the MPCA for registered use.
2. The manufacturer shall have readily accessible information, specific to a product’s registered use in Minnesota, for designers, installers, service providers, regulators, and interested parties for the following items: a) product manual, b) design instructions, c) installation instructions, d) operation and maintenance requirements, e) homeowner instructions, and f) list of manufacturer-certified service providers, if any, as required by Minn. R. 7083.4040 (H).
3. The design flows for the registered Nayadic Model Series are as follows:
 - 500 gallons per day for the Nayadic M-6A
 - 600 gallons per day for the Nayadic M-8A
 - 800 gallons per day for the Nayadic M-1050A
 - 1000 gallons per day for the Nayadic M-1200A
 - 1500 gallons per day for the Nayadic M-2000A

4. Septic/trash tank capacity for dwellings shall meet the manufacturer's size requirement consistent with National Sanitation Foundation (NSF) testing and as specified in the Application for Registration. The tank(s) shall be designed to withstand the pressures to which it will be subject to. The tank(s) and all pipe penetrations, risers, and other connections to the tank shall be watertight.
5. Each system must be delivered with an installation manual and owner's manual for the Nayadic Model Series (Nayadic M-6A, Nayadic M-8A, Nayadic M-1050A, Nayadic M-1200A, and Nayadic M-2000A). Each component must be installed in accordance with the manufacturer's installation manual.
6. All systems shall be designed and operated with (a) suitable alarm device(s) should the Nayadic Model Series (Nayadic M-6A, Nayadic M-8A, Nayadic M-1050A, Nayadic M-1200A, and Nayadic M-2000A) units malfunction.
7. This treatment product is a Minnesota-registered product for Type IV systems. For Treatment Levels B2 and C, effluent loading rates to the soil, method of distribution, and vertical separation requirements shall meet the minimum requirements contained in Minn. R. 7080.2150 to 7080.2350. The effluent, following treatment in the Nayadic Model Series, is required to be uniformly distributed to the soil for final treatment and dispersal.
8. Systems may only be designated as Type IV systems when designed and installed per the drawings submitted as part of the Application for Product Registration, dated October 24, 2008, and subsequent documents submitted prior to this registration.
9. As a Type IV system, the system must be constructed and operated under the required local permits.
10. The level of maintenance required for Nayadic Model Series components shall be as specified in the products Operation and Maintenance Manual. This includes, but is not limited to, maintenance every six months.
11. As specified in Owner's Manual, limitations of the product are identified, including a list of unsuitable wastes that must not be discharged into the system. The manufacturer is responsible to provide a listing of other known limitations, made available on the company's website or other means.
12. Training shall be provided to MPCA-licensed Subsurface Sewage Treatment System practitioners before designing, installing, or providing service to Nayadic Model Series (Nayadic M-6A, Nayadic M-8A, Nayadic M-1050A, Nayadic M-1200A, and Nayadic M-2000A) treatment systems registered for use in Minnesota.
13. During the period of product registration and as part of the renewal process, systems using registered treatment products are subject to an audit by the MPCA.

Jeff Luthman, Vice President

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Please be advised that this registration expires December 31, 2027. Manufacturers desiring to continue product registration beyond this date must obtain MPCA renewal according to the requirements in Minn. R. 7083.4040 (E). If the product has changed or is retested according to the protocol required for registration, renewal shall be based on the most recent test results. If the MPCA finds the product has changed in any way that may affect performance, it may not be renewed and must meet the requirements for initial registration.

The MPCA is in no way endorsing these products or any advertising, and is not responsible for any situation which may result from its use or misuse. The MPCA is not liable for any product failure and these statements are not intended and cannot be relied upon to establish any substantive or procedural rights with the state of Minnesota or the MPCA, either express or implied, that can be enforced in litigation or any administrative proceeding.

If you have any questions, please contact Wendy Chirpich at 507-344-5248 or by email at wendy.chirpich@state.mn.us.

Sincerely,

Wendy Chirpich

This document has been electronically signed.

Wendy Chirpich
Environmental Specialist
Municipal Division

WC:lm