

# COUNTY OF SUFFOLK



**STEVEN BELLONE**  
SUFFOLK COUNTY EXECUTIVE

DEPARTMENT OF HEALTH SERVICES

**GREGSON H. PIGOTT, M.D., M.P.H.**  
Commissioner

October 4, 2023

Mr. Mike Dunn  
Fuji Clean USA, LLC  
41-2 Greenwood Road  
Brunswick, ME 04011  
Sent via e-mail: [mike@fujicleanusa.com](mailto:mike@fujicleanusa.com)



**Re: Fuji Clean Minimum Commercial Requirements Approval**

Dear Mr. Dunn,

The Suffolk County Department of Health Services (Department), Division of Environmental Quality, Office of Ecology has received and reviewed the design drawings prepared by Fuji Clean USA, dated 9/18/2023 for the "MINIMUM REQUIREMENTS FOR COMMERCIAL APPLICATIONS".

Based on the information provided and in accordance with the "Standards Promulgated Under Article 19 for the Approval and Management of Innovative and Alternative Onsite Wastewater Treatment Systems" §19-103 (H), the Department approves the minimum commercial design requirements for Fuji Clean treatment units, as specified in the approved design drawing.

A copy of this letter and the approved design will remain on file in the Office of Wastewater Management for future reference. Additionally, the approved design will be incorporated into the Fuji Clean Vendor Guidance Document, maintained by the Office of Ecology.

If you have any questions, please do not hesitate to contact me at (631) 852-5811.

Sincerely,

Ken Zegel, P.E.  
Principal Public Health Engineer  
Chief, Office of Ecology

cc: Kevin McGowin (Advanced Wastewater Solutions)  
Bryan McGowin (Advanced Wastewater Solutions)  
Scott Samuelson (Fuji Clean USA)



DIVISION OF ENVIRONMENTAL QUALITY  
Office of Ecology  
360 Yaphank Avenue, Suite 2B, Yaphank NY 11980  
P:(631) 852-5750 F:(631) 852-5812



ACCEPTED BY THE SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES  
(DEPARTMENT) BASED ON INFORMATION PROVIDED BY VENDOR.

The Department has reviewed this submittal for completeness and is hereby approved for use in Suffolk County. This approval is solely for the model(s), units(s) and/or structure(s) included in the design drawing(s) and any additional information provided by the technology Vendor. Any changes or modifications to the approved design must be submitted for review and approval by the Department prior to its use in Suffolk County. The Department is not responsible for any errors, omissions, failures, construction defects or installation errors that may occur due to design professional, manufacturer, distributor or installer oversight or negligence.

TABLE 2: FROM FUJI CLEAN COMMERCIAL DESIGN MANUAL

	Vent pipe length <16 feet (5m)	Vent pipe length >16 feet (5m)
Residential	2" φ (50mm)	3" φ (75mm)
Commercial	3" φ (75mm)	4" φ (100mm)

- Local regulations may specify required vent pipe diameter
- Keep horizontal vent pipe as short as possible. Vertical pipe length should be 2 times longer than horizontal
- Installation of a positive flow ventilation fan facilitates better ventilation
- Greater temperature differential between tank and outside air facilitates more effective ventilation

**Notes:**

- Fuji Clean reserves the right to waive minimum requirements for site-specific designs. A letter describing requirements to be waived will be provided by Fuji Clean USA or their authorized distributor the site-specific design professional.
- All details not explicitly specified in this design are as required by Suffolk County Article 6 Construction Standards for septic tank design and FujiClean Vendor Guidance Document.
- Routine maintenance of the pretreatment/trash tank must be included in the O&M contract.
- All FujiClean Commercial Systems Require a Remote Carbon Filter vent that complies with the following minimum standards (see Table 2 for additional venting recommendations):
  - Vent Pipe Diameter: 2-inch minimum for vent pipes up to 16 feet in length and 3-inch minimum for vent lines more than 16 feet in length.
  - Vent Pipe Length: Maximum of 50 feet unless a powered vent fan is installed to provide active ventilation.
  - Vent Pipe Slope: Minimum slope of 0.0625-ft per foot pitched back to the tank must be maintained.
- FujiClean systems include a space penetration for venting along the collar of the first chamber. If the designated venting location is inaccessible, vent line may be installed into the riser of the first chamber.
- Applications involving multiple tanks and/or pre-aeration may require a common vent pipe.

10/4/2023  
APPROVAL DATE

*Ken Zegel*  
Ken Zegel, P.E.

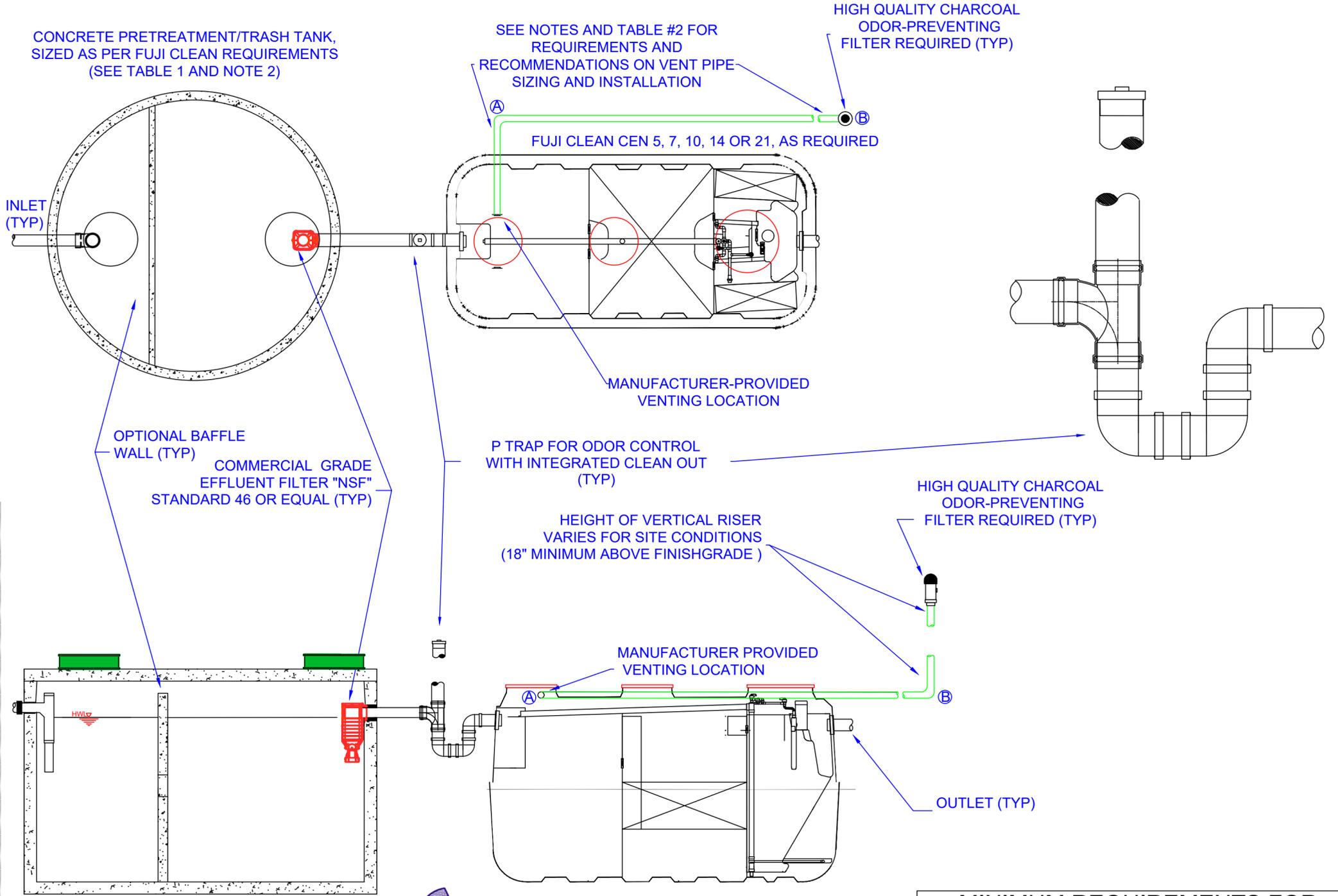


TABLE 1:

Pretreatment Tank Size (gal)	Hydraulic Load (GPD)	Tank Information
500	0-1,000	SC Pre-Approved NS-007
750	750-1,500	SC-Pre-Approved NS-008
990	990-2,000	SC Pre-Approved NS-009
1,200	1,200-2,400	SC pre-approved 8' dia. x 4' depth
1,500	1,500-3,000	SC pre-approved 8' dia. x 5' depth
2,000	2,000-4,000	SC pre-approved 10' dia. x 4' depth
2,500	2,500-5,000	SC pre-approved 10' dia. x 5' depth
3,000	3,000-6,000	SC pre-approved 10' dia. x 6' depth
3,750	3,750-7,000	SC pre-approved 12' dia. x 5' depth
4,500	4,500-9,000	SC pre-approved 12' dia. x 6' depth
5,250	5,250-10,500	SC pre-approved 12' dia. x 7' depth

500, 750 AND 990 GALLON TANKS REQUIRE BASE EXTENSIONS WHEN INSTALLED IN GROUNDWATER, AS PER APPROVALS NS-007, NS-008 AND NS-009



MINIMUM REQUIREMENTS FOR COMMERCIAL APPLICATIONS	
FCU	09.18.23
NOT TO SCALE	AWS L.I.