





of treatment. These treatment beds are lined to capture the treated effluent. Once captured, the treated effluent is then pumped into a recycling tank. 75% of the treated effluent is then sent back through the Imhoff tanks via recirculation pumps and the rest is dosed into the dispersal area. As the treated effluent that is sent back to the Imhoff tanks goes anaerobic, the organic material present acts as a carbon donor in the denitrification process. Additional denitrification then takes place in the anoxic zone of the Imhoff tank. Figure 4 at the conclusion of this paper shows a diagram of the system's layout.

One of the main reasons why the Blodgett Landing Treatment Plant was upgraded was to increase the level of treatment. At first, the town of Newbury thought it was going to be too expensive to meet the treatment levels set by the state of New Hampshire. That is because most municipalities employ a mechanical treatment process that can be costly and requires routine maintenance and replacement parts. There is a movement in the large flow industry to find a passive treatment process that can provide the treatment levels required by regulators. The Enviro-Septic® Technology is being adopted globally as an affordable option that has minimal upkeep and maintenance. The following test results are averages of samples taken at the re-circulation chamber.

Testing Parameters	BOD	TSS	TN	TKN	Fecal Coliform
Test Results	6.0 mg/L	5.04 mg/L	7.14 mg/L	0.89 mg/L	3,632 MPN/100ml

Table 1

\*Samples taken at re-circulation tank

The town of Newbury has been very pleased with the performance and operation of this system. Plant Manager Tim Mulder said, “[Enviro-Septic®] is truly exceptional in the world of large-flow wastewater treatment.” With minimal ongoing costs this system will save the town a lot of money over the next few decades, while proving the highest level of environmental protection. This project is a great example of how decentralized treatment systems can provide a passive, affordable, and reliable solution for residential, commercial and community use.

