

# Engineered Retention Time

Given the opportunity water will take the path of least resistance, this can result in short circuiting, dead zones, sludge build up and inefficient treatment. Implementing a baffle system to engineer a specific water flow pattern can optimize treatment and retention time.

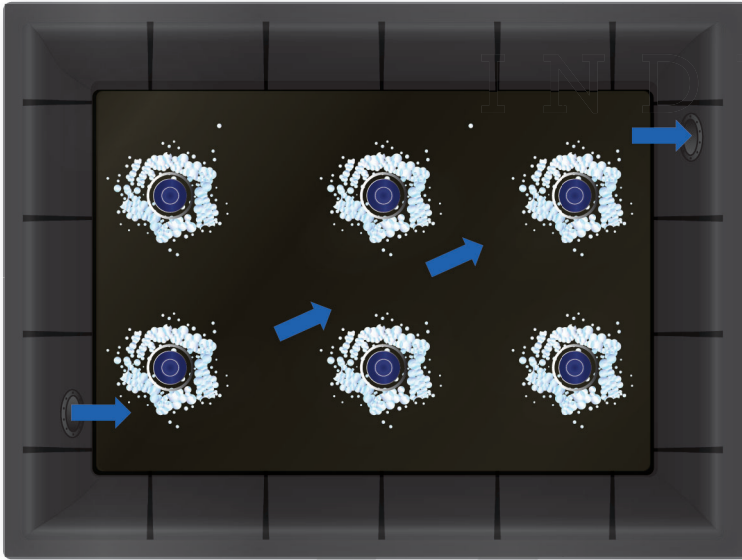


Figure 1a. JPS Erosion Barrier Only.

## 1a. Random Flow Pattern

Water will go directly from the inlet to outlet of a lagoon. This results in decreased retention time and reduced BOD removal. The dead zones are not treating waste and the cost to operate these aerators is lost.

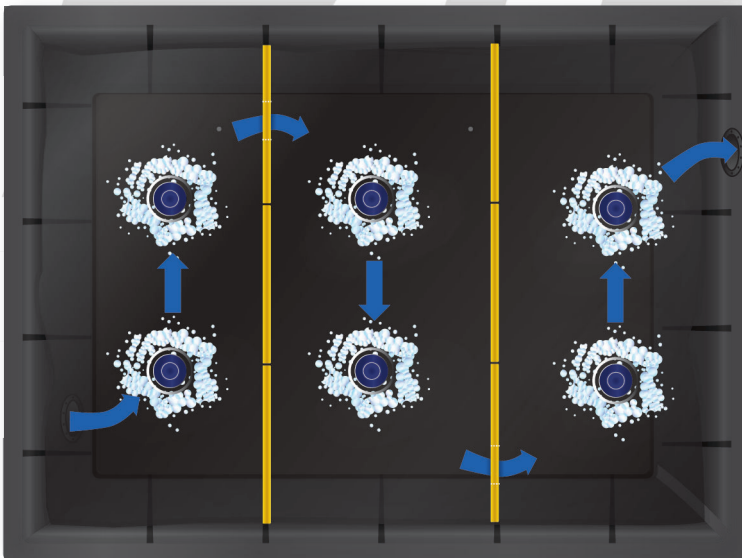


Figure 1b. JPS Erosion Barrier in Combination with JPS Baffle Curtains.

## 1b. Intentional Flow Pattern

The application of two baffles creates a serpentine flow pattern resulting in increased retention time. The baffles also force the water column through the aerators' sphere of influence. The entire lagoon is now utilized and aerators maximum potential is realized.



30 JPS Drive - Bristol, NH 03222  
603-744-6400 Main  
603-744-3700 Fax  
info@jpsindustries.com

Contact your nearest  
JPS Rep or request  
specifications at:  
[www.jpsindustries.com](http://www.jpsindustries.com)

