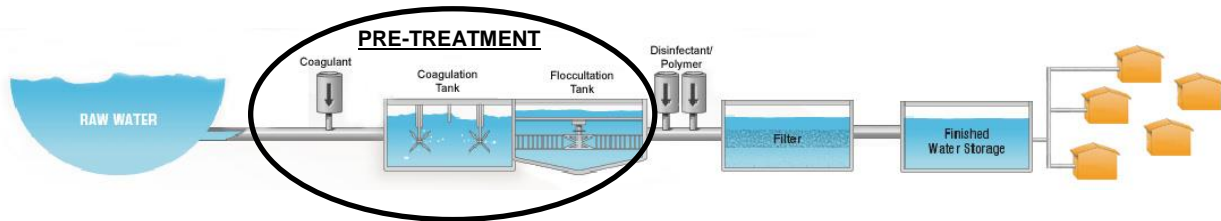


NORTH TABLE MOUNTAIN REPORT – October 2022

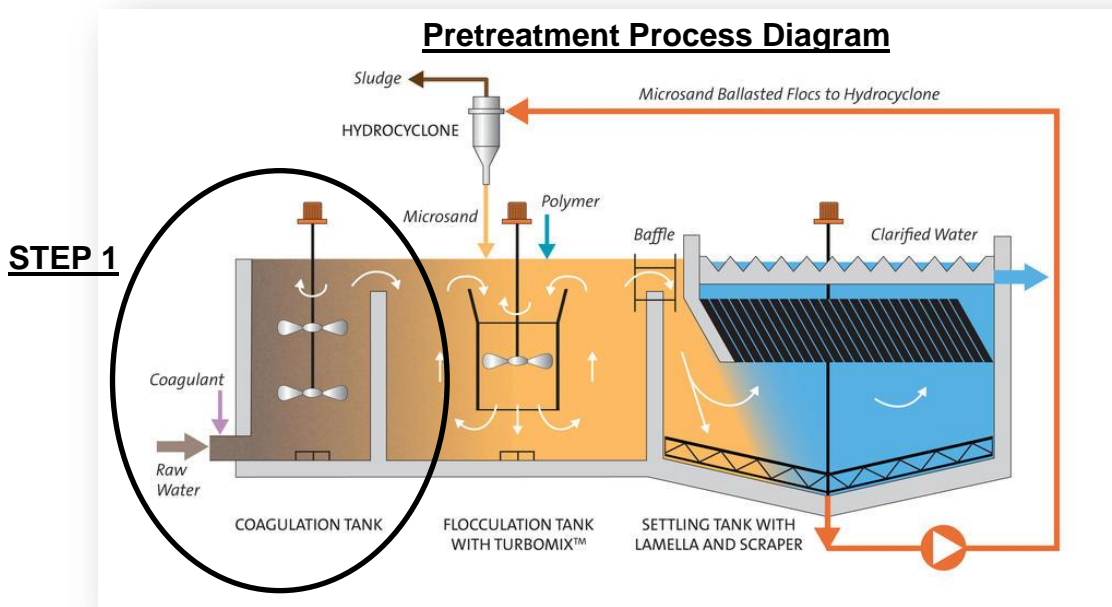
PART 4 - NORTH TABLE MOUNTAINS WATER TREATMENT PROCESS



NTM Water Treatment: In the Part 3 of the NTM report the overall water treatment process was discussed. Our water treatment process is considered a conventional process which includes pretreatment, filtration and disinfection. After the water leaves the plant it enters the distribution system. This and the next 3 reports will discuss each component of the pre-treatment process followed by the distribution system in greater detail.

PRE-TREATMENT – STEP 1: COAGULATION

All waters contain suspended particles. These particles tend to have a negative charge and they repel each other which causes them to remain suspended. In order to treat the water a chemical known as a coagulant is utilized to neutralize the charge of the particles. This is achieved by injecting the coagulant into the untreated water as it enters our water treatment plant. After entering the plant the water’s first stop is in the coagulation tank. In this tank the water is mixed to ensure the coagulant is properly dispersed. Since the coagulant neutralizes the charge of the particles they stop repelling each other, allowing them to bind together.



The next step of the process involves combining the particles so that they become large and easily settle out of the water. Stay tuned for Part 5 where we discuss flocculation.