

Filtration

What is filtration? Filtration is the process of separating content from a fluid stream. This fluid stream may be liquid, gas, or solid. Or as Merriam-Webster¹ lists:

Filtration

1: the process of filtering.

In essence, filtration simply stated, is the removal of undesired material from desired material. A relatable example might be a swimming pool. You want the water to be free of leaves, so a person takes the long pole with a net at the end and scoops out the leaves – filtration of pool water. Another example would be the air filter on your car that removes dust and other solid particulates from the air before that air enters the engine for combustion. Filtration is used in many areas, e.g. drinking water, fuel, food, and landscaping pebbles.

At Southwest Filter we specialize in ‘Polishing’ the streams. Our equipment takes what the average eye does not see and removes the undesired particles, with the ability to filter out particles 3 microns and smaller. For those who do not know, one micron (typically shown as μ) is equal to 0.0000394 inches. For comparison, an average human hair is 70 microns, table salt is around 100 microns, and the human eye will recognize something around 40 microns; anything smaller and most people will not see it. Hence, the importance of filtration equipment that can filter particles we cannot see.

¹ <https://www.merriam-webster.com/dictionary/filtration>