

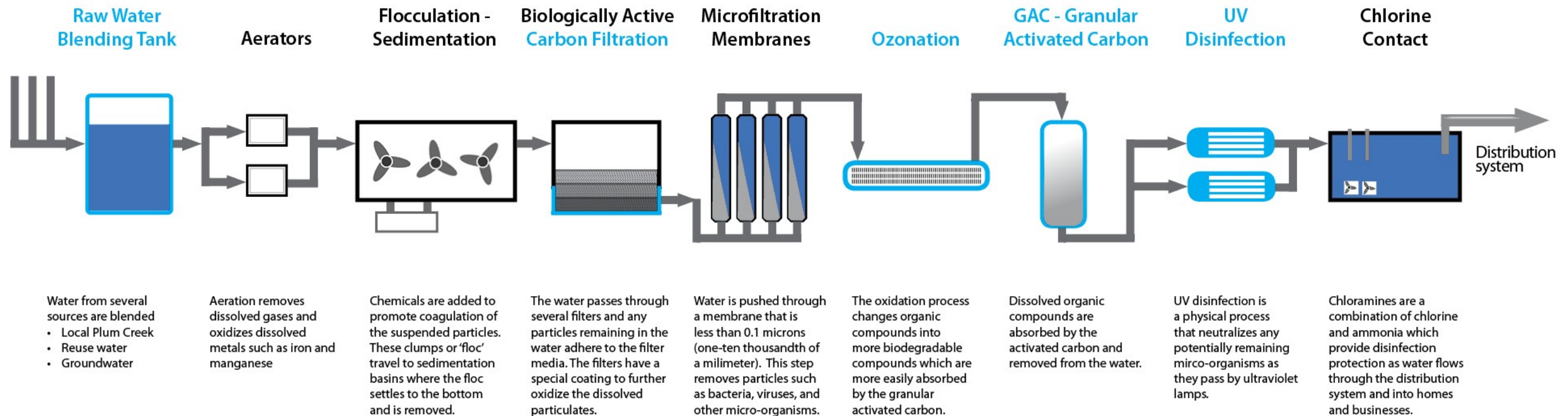
Planning for Reuse

Plum Creek Water Purification Facility *with Advanced Treatment*



Plum Creek Water Purification Facility is being expanded to include Advanced Treatment processes, which are denoted in blue. While treatment already meets local, state and federal regulations for safe drinking water regardless of sources, the Advanced Treatment processes provide added redundancies, focus on removal of contaminants of emerging concern (CEC), and address new standards being established by reuse systems throughout Colorado and the U.S.

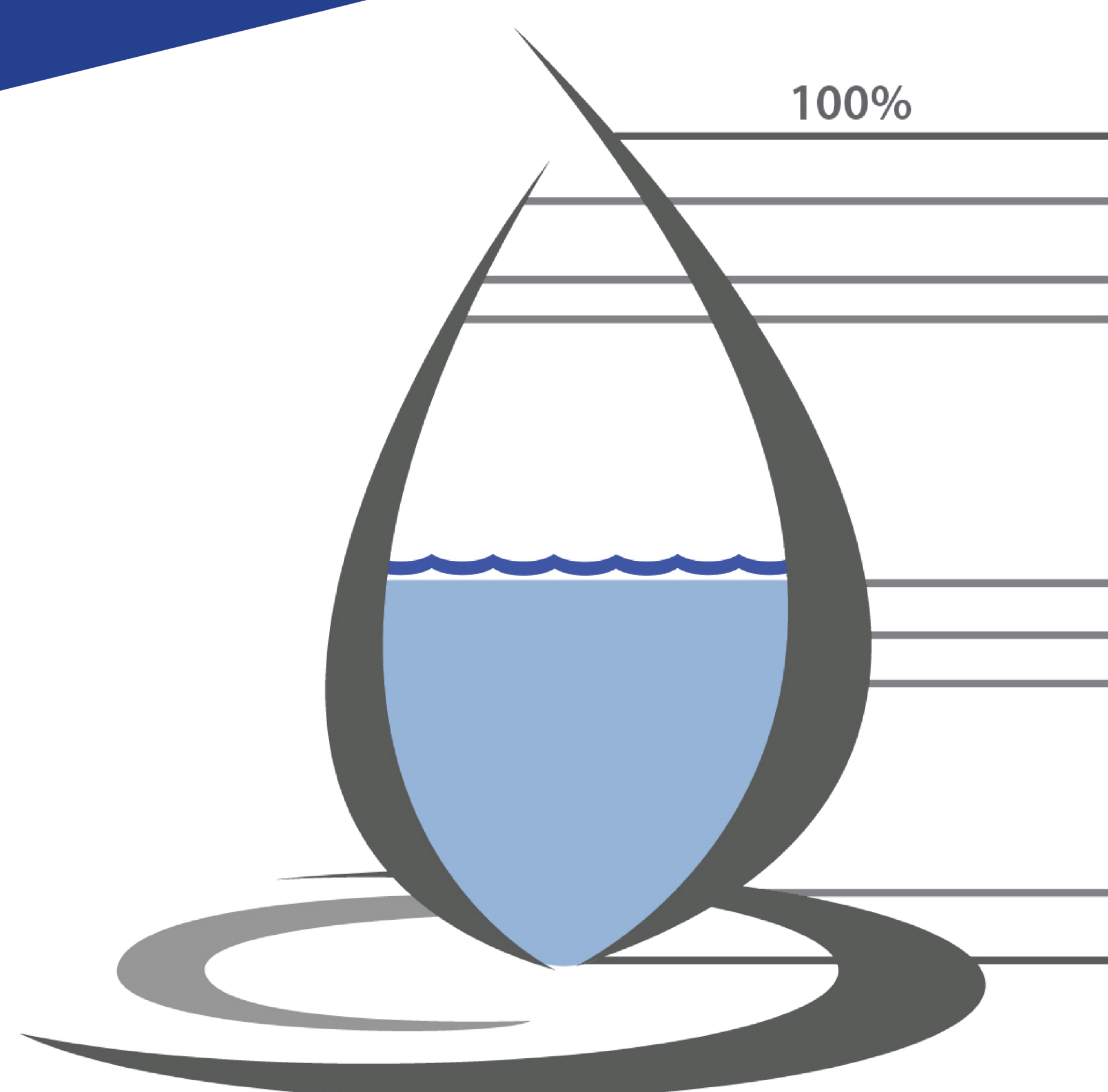
Current and reuse treatment systems include physical, chemical and biological processes for a more thorough treatment for purity in drinking water. These processes are designed to remove Giardia, Cryptosporidium, viruses, suspended solids, bacteria, algae, fungi and CECs, making drinking water reliable and safe.



This process diagram is a representation only.

Planning for Reuse

Castle Rock Water serves a community of 62,000 residents and is expected to grow to 105,000 by 2050. With or without growth, the existing deep ground water supply that the Town has been so reliant upon is a nonrenewing resource that is not by itself sustainable for the Town, long-term. Climate conditions are also significantly impacting supply and demand. Plans for securing water for the Town of Castle Rock include renewable surface water, importing water and reuse.



Securing our future
drop by drop

Additional Conservation
Box Elder Imported 16%
Other Imported Water 3%

Reuse Program 36%

Lawn Irrigation Return Flows 5%
WISE Imported 6%

Groundwater 25%

Native Plum Creek 9%

2018

Plum Creek Water Purification Facility expansion for Advanced Treatment is in design



CRgov.com/WateReuse

2019

Several large irrigation accounts are slated for nonpotable reuse, including the municipal golf course

2020

Reuse water taken from East Plum Creek will be purified to drinking water standards for Town-wide household and business consumption



Plum Creek Water Purification Facility



Reuse Pilot Project

ENVIRONMENTALLY SOUND

COST EFFECTIVE

SUSTAINABLE