

Multimedia Tank

The screenshot displays a software interface for Quality Control Records. On the left, there is a sidebar with the EPFC logo, an account login section, and a list of favorites. The main area is titled 'Quality Control Records' and contains several data tables. A pop-up window titled 'Multimedia Filtration' is open, showing a schematic diagram of the tank and a detailed description of its operation and material.

Quality Control Records Table:

In-House QC	Quality Management System	In-House QC Tests	WRS Processes	
QC Check Description	Test Date and Time	Value	Unit of Measure	Operator
1 pH - PROCESSED WATER	06/05/2021 5:48 PM	6.50	PH	BETHANY BASCO
2 TDS - RAW WATER	07/02/2021 11:16 AM	500.00	Mg/Li	Bethany Basco
3 pH - RAW WATER	07/02/2021 11:22 AM	7.00	PH	
4 TDS - RAW WATER	05/16/2022 2:23 PM	10.00	tds	PROT

WRS Processes Table:

Test Date & Time	Third Party Lab	Test Name	Constituent
07/12/2021 3:26 PM	Tadoban Hardware	BACTERIOLOGICAL	E. COLI OR
07/02/2021 5:53 PM	Tadoban Hardware	BACTERIOLOGICAL	E. COLI OR
07/02/2021 5:55 PM	EVRAC LABORATORIES	BACTERIOLOGICAL	E. COLI OR
05/16/2022 2:32 PM	EVRAC LABORATORIES	BACTERIOLOGICAL	E. COLI OR
05/16/2022 3:12 PM	EVRAC LABORATORIES	BACTERIOLOGICAL	E. COLI OR

Multimedia Filtration Schematic Diagram:

The diagram shows a vertical cylindrical tank with several ports. At the top, there is a 'service in' port (A) and a 'backwash' port (D). The tank is divided into three layers: 'anthracite' (top, green), 'silica sand' (middle, yellow), and 'gravel' (bottom, purple). At the bottom, there are 'In' (B) and 'backwash' (C) ports, and a 'service out' port (E). A note indicates that 'backwash goes to drain'.

How it operates:

Generally, the tank is made of Glass-Reinforced Plastic (GRP) material and by experience, this kind of material is resistant to most chemical impurities found in raw water. GRP or FRP are one and the same. It is a composite materials of fiberglass reinforcements bonded with Isophthalic or Vinyl Ester resin. The manufacturing process employed by the manufacturer is generally by helical winding process which is evident by the unique finish surface of the tank which can be visibly seen as a band of rising strand and about 120mm width, continuously wound around the tank resulting a one-piece tank, a tank with no joints. This is unique to GRP/FRP tank manufactured by PFI process.

Raw Water (Service):

1 Glass water service valve (A)