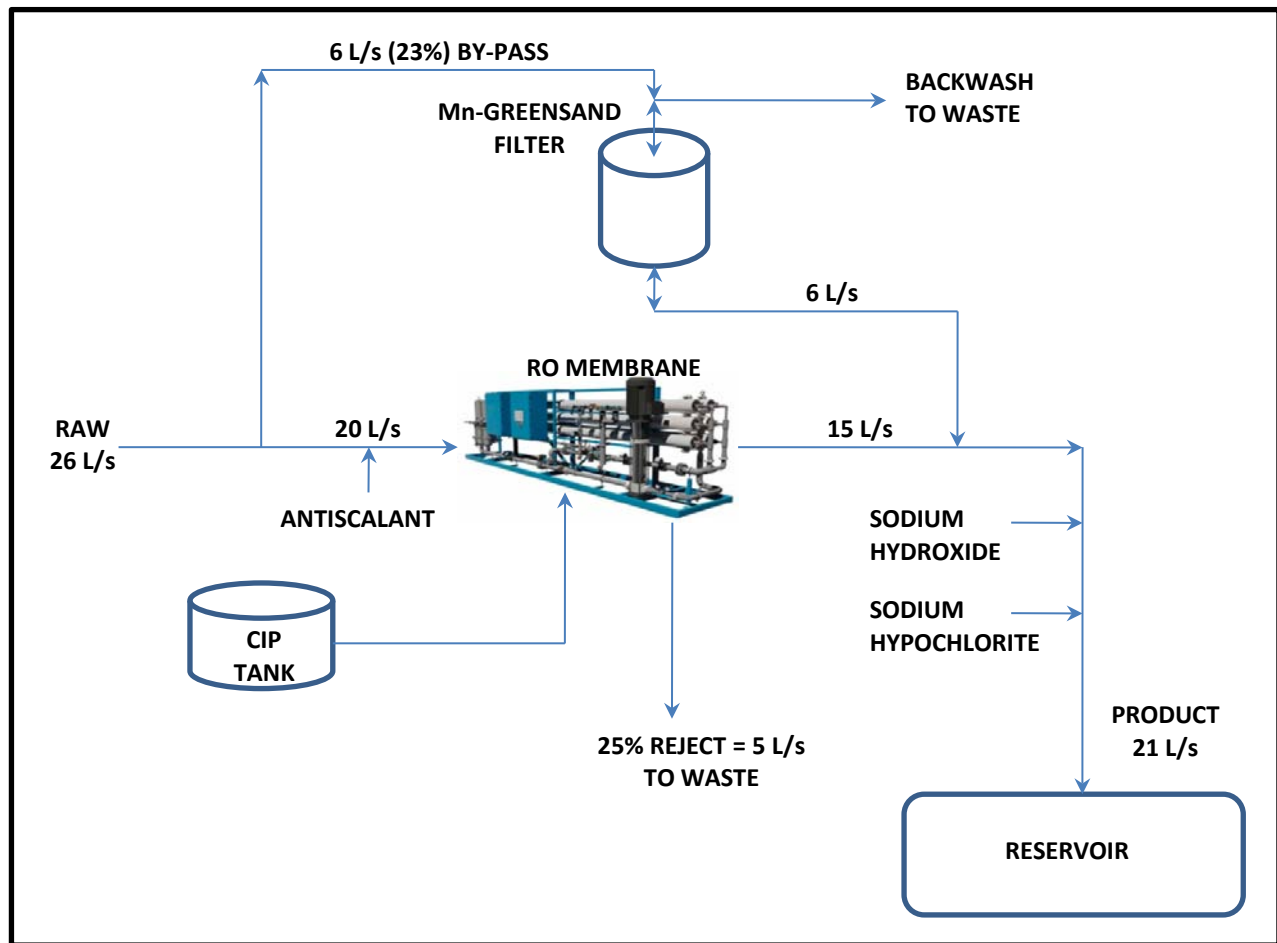


Projected 20 Year Treated Water Demand

		Pilot Mound	Manitou	RM Pembina	Crystal City	Total
20 year future population (@0.5% /yr)		702	893	500	424	2,519
Consumption/capita/day	L/c/day	300	300	300	300	
Average Day Consumption	L/day	210,600	267,900	150,000	127,200	755,700
Average Day Demand	L/s	2.93	3.72	2.08	1.77	10.5
Peak Day factor		x2	x2	x2	x2	x2
Peak Day Consumption	L/day	421,200	535,800	300,000	254,400	1,511,400
Peak Day Demand (20 hr operating day)	L/s	5.85	7.44	4.17	3.53	21



Annual Average Treated Water Demand = $755.7 \text{ m}^3/\text{day} \times 365 \text{ days} = 275,830.5 \text{ m}^3/\text{year}$
 $(5 \text{ L/s Reject}) / (21 \text{ L/s Product}) \times 100 = 23.8 \%$ Reject per unit of water produced
Annual Raw Water Demand = $275,830.5 \times 1.238 = 341,478 \text{ m}^3/\text{yr} = 341.5 \text{ Dam}^3/\text{year}$