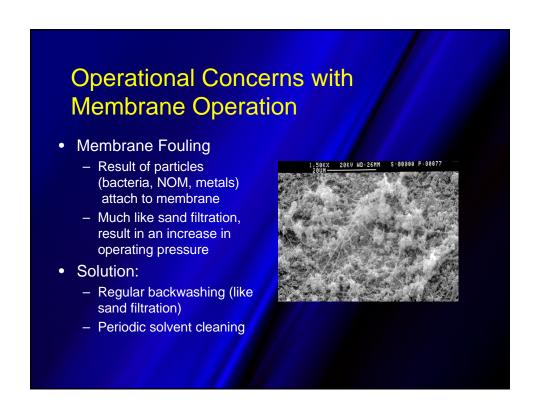
Membrane Classification

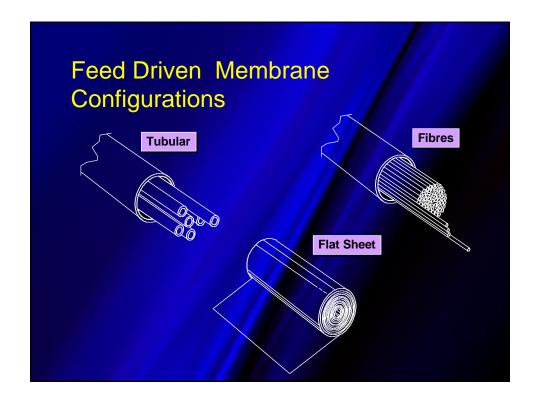
- Pressure driven membranes are divided into four main divisions based on pore size
 - Microfiltration (MF)
 - Ultrafiltration (UF)
 - Nanofiltration (NF)
 - Reverse Osmosis (RO)

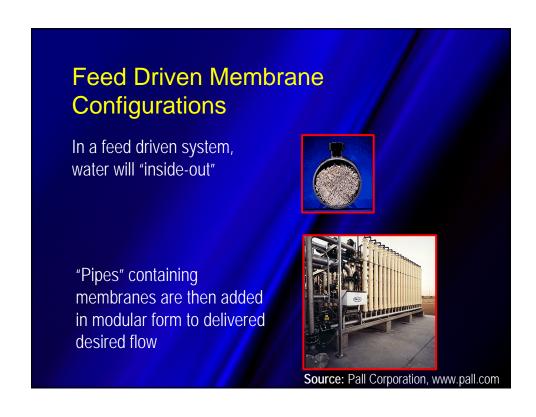
Decreasing pore size.

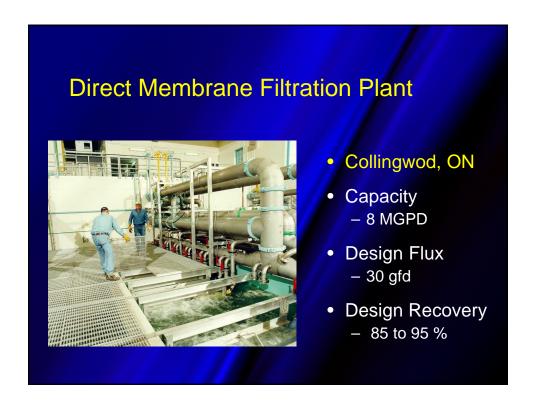
Typical Operating Values

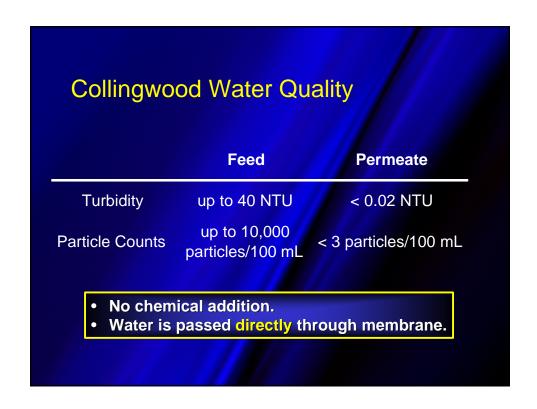
	MWCO/Pore Size	Flux	Pressure
MF	0.1 to 2 μm	115 L/m ² /h	15 to 60 psi
UF	0.005 to 0.1 μm	100 L/m ² /h	30 to 100 psi
NF	0.0005 to 0.005 μm	17 L/m²/h	90 psi (typical)
RO	< 0.5 nm 50 to 200 daltons	n.a.	200 psi

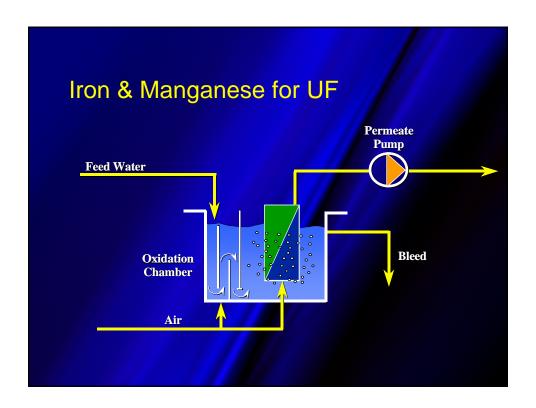












Iron & Manganese for UF



- Rothesay, NB
- Population of 11,500
- Capacity– 0.8 MGD
- Manganese removal achieve with 5g/L of KMnO₄