

## Troubleshooting

SYMPTOM	CAUSE	ACTION
<b>Activated Carbon Units</b>		
High pressure drop	Solids build-up	Inspect top of bed for build-up
Chlorine in effluent	Exhausted	Re-bed carbon
<b>Cation Units</b>		
High pressure drop	Solids build-up	Inspect top of bed for build-up
Short runs	Resin loss	Measure bed height, check internals for integrity, check backwash flow rate
	Low resin capacity	Oxidized or fouled resin: sample and test resin
	Improper regeneration	Check regeneration flow rates, contact time, and chemical volumes. Sample and test resin after regeneration for percent conversion to hydrogen form
High conductivity from anion unit	Sodium leakage from cation unit	Check inlet water analysis quarterly for seasonal changes, check regeneration
<b>Anion Units</b>		
High pressure drop	Solids build-up	Inspect top of bed for build-up
Short runs	Resin loss	Measure bed height, check internals for integrity, check backwash flow rate
	Low resin capacity	Oxidized or fouled resin: sample and test resin
	Improper regeneration	See cation recommendations
Long rinses	Organic fouling	Sample and test resins, perform caustic brine squeeze
High silica	Sodium leakage from cation unit	See cation recommendations
	Improper regeneration	See cation recommendations

**NOTE:** Off spec or poor performance that occurs abruptly is usually indicative of a mechanical malfunction or sudden change in inlet water conditions or regeneration chemicals. Gradual changes in performance are more likely to be caused by fouling or subtle changes in the inlet water analysis.

