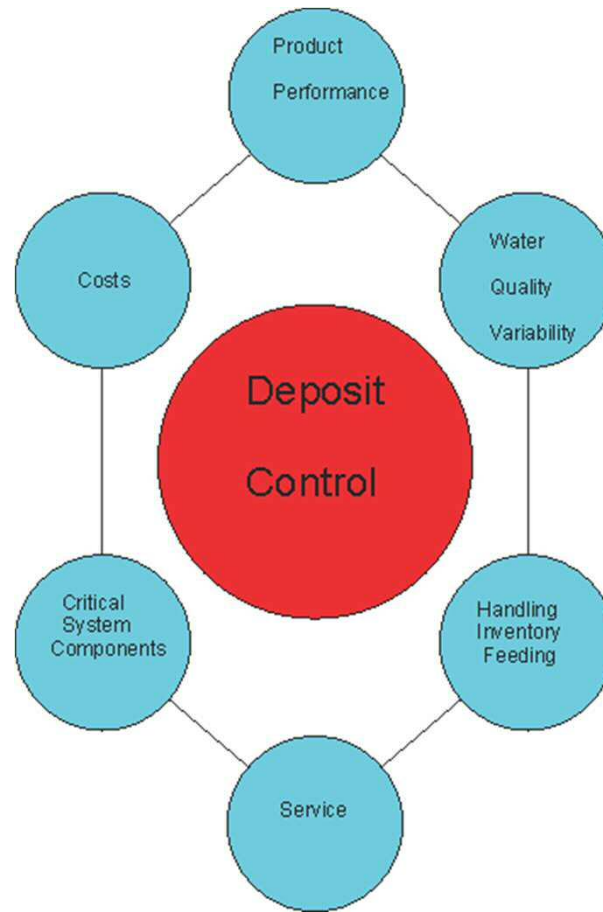


RSC CUSTOMER PRESENTATION

Deposit Control Treatment Program



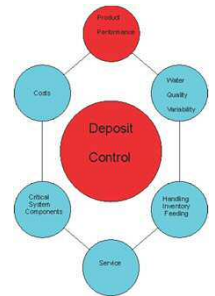
Deposit Control Treatment - Overview



Deposit Control Product Performance

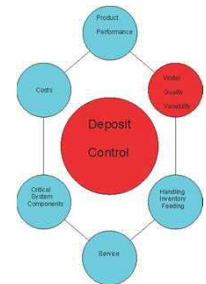
Why Consider Improvements?

- Monitoring and Inspections
- Consulting Review
- Discharge Pump Deposits
- Reinjection
- Polymer Screening



Water Quality and Water Quality Variability

	RW-1	RW-2	RW-3
Iron ppm (Fe tot)	.34	3.59	1.37
Hardness ppm (CaCO ₃)	662	643	721

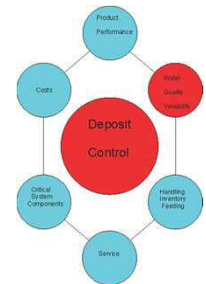


Water Quality and Water Quality Variability

	RW-2	RW-3
Iron	3.78	1.52
Calcium*	550	525
Hardness*	600	575
M Alkalinity*	450	500
Sulfate	120	165
Chloride	100	125
pH	7.3	7.1
Conductivity	1473	1682

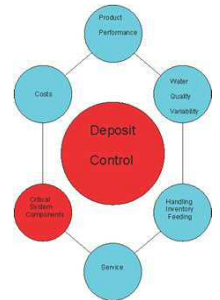
*ppm as CaCO₃; others as ppm ion

RSC Data – June 7, 2011

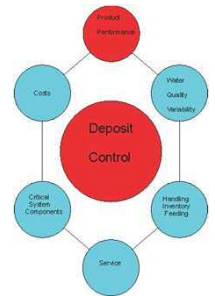


Critical System Components

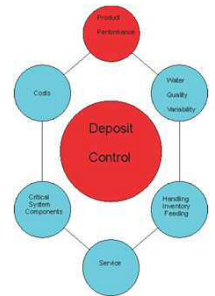
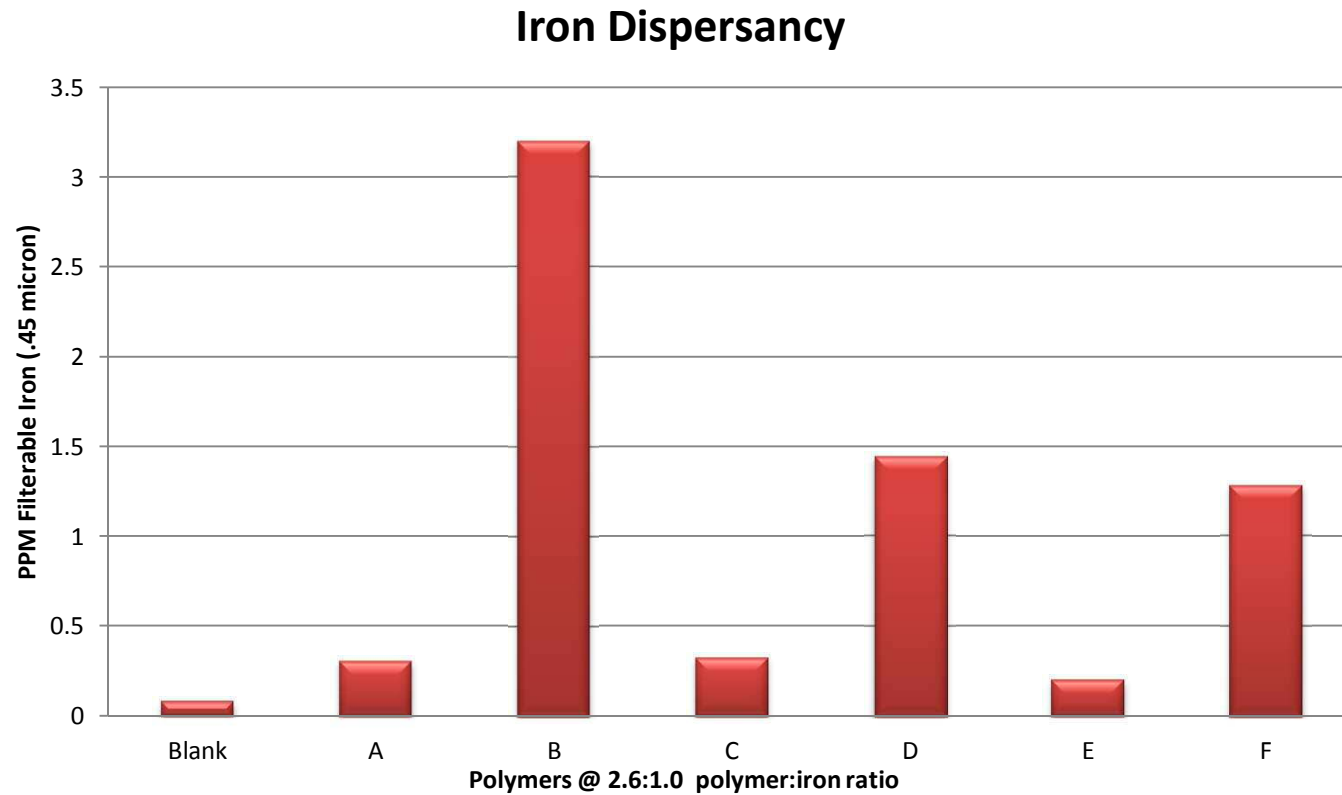
- Air Stripper
- Discharge Pump
- Bag Filters
- Injection Well Screens
- Well Packing and Aquifer



Deposit Control Product Performance Screening Test – Simulated Air Stripper



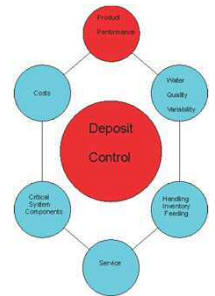
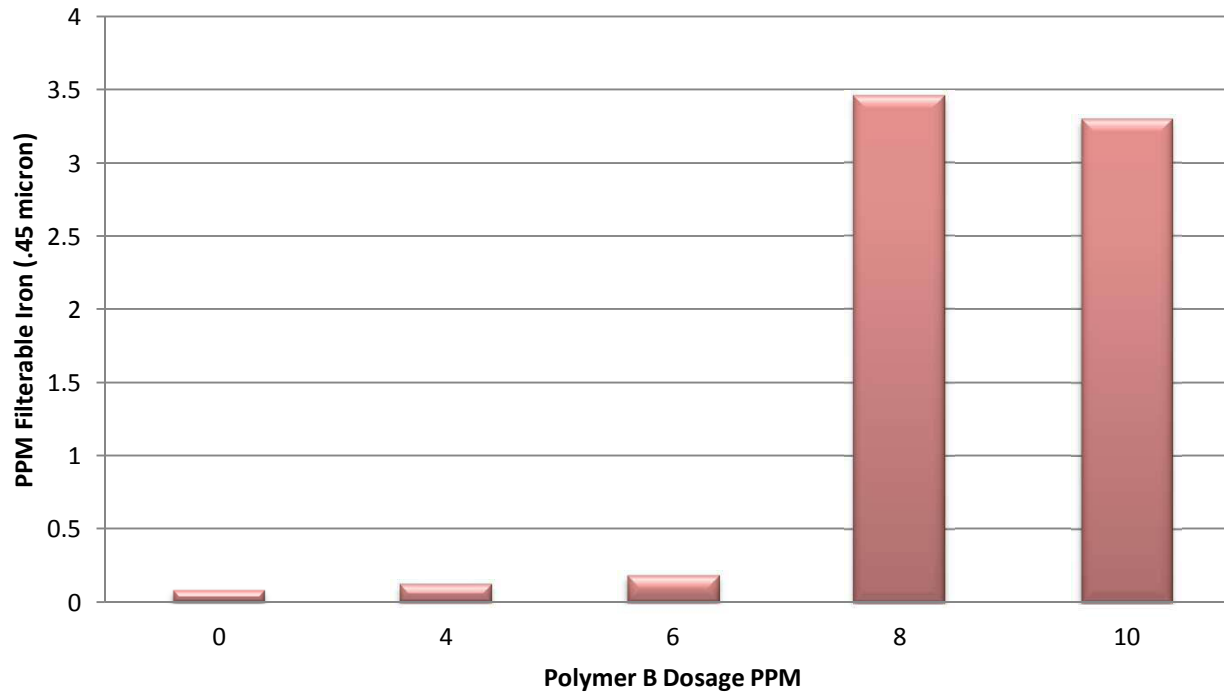
Deposit Control Product Performance Polymer Screening



Deposit Control Product Performance

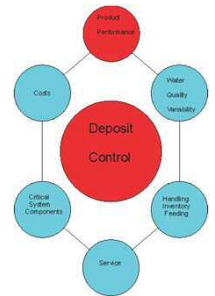
Performance vs. Dosage

Iron Dispersancy vs Dosage



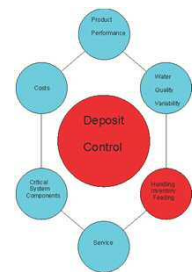
Deposit Control Product Recommendations

- Improved Chemical Treatment – Better Iron Dispersant (Terpolymer)
- Separate Chemical Feed – Precise Targeted Feed – Improved Results
 - RSC FE- 3100 – Iron Terpolymer - Base Feed on iron Levels
 - RSC CA- 200 – Calcium Carbonate Inhibitor – Base Feed on Calcium levels



Handling-Feeding-Inventory

- Inventory is identical for all three systems
 - 1. RSC CA 200 - Calcium Carbonate Inhibitor
 - 2. RSC FE 3100 – Terpolymer
- Feedrate accuracy – Improved Results
- Dosage can be adjusted without formulation change
- Can be automated for labor savings



Deposit Control Product Regulatory

- Iron Dispersant – RSC FE- 3100
 - MSDS
 - Aquatic Toxicity
 - No potable water approval
- Calcium Carbonate Inhibitor – RSC CA- 200
 - MSDS
 - Aquatic Toxicity
 - No potable water approval

