

From The Aqua Smart Inc. Files

DIRTY WATER ELIMINATION WITH SEAQUEST

Dealing With Low Chlorine Residuals and Boil Orders,
Dirty Water and Customer Complaints

Case # 120 – MAGNOLIA, IL – BEGAN SEPT 4, 2005
(Total Hardness ~ 300 PPM; Fe 0.05; Mn 0.015; Zn 0.1)
0.030 GPD Ground Water Plant

**Magnolia, IL had long term Chlorine
Residual problems and Dirty Water issues**



Before Using SeaQuest

The Village of Magnolia, IL, a small town located in Putnam County, IL, had a long 20 year plus history of dirty water with little to no chlorine residuals throughout their system. The Raw Water Iron level at 6 mg/L (PPM) was so high in their ground water that **they used an Iron Removal Filter to bring down the Iron to 0.05 PPM, and then added a supplemental post filter Phosphate.** Various blends and treatment rates from a local manufactured, national phosphate company were used to help Magnolia produce clean water, but of these **many blends used over the years, none could hold the post filter Iron (or Zinc).** It seemed like nothing was able to solve Magnolia's issues, and dirty red water throughout the Village was the norm. Because their storage tank was only 20,000 Gallons at the time, Magnolia would flush until the normal 55 PSI pressure reached down to 20 PSI, then they would wait for the storage tank to refill. All monthly, system wide Flushings took about a week and a half to complete and were accompanied by a Boil Order. **Nothing provided relief!** Furthermore, chlorine usage was high while residuals were low, and customers were resolved to getting dirty water from their taps and monthly Boil Orders as a way of life.



Magnolia, IL Township Building



The Village of Magnolia, IL and their new 53,000 Gallon Water Tower

Only 4 Months After Using SeaQuest

Within only 4 months of using SeaQuest, Magnolia's water **began to completely clear up!** Chlorine residuals went up dramatically throughout the Village of Magnolia and **chlorine usage dropped by 40%!** Monthly system wide Flushings went dramatically down from every month to only twice a year. Finally, Magnolia, IL was meeting the standard IL-EPA levels for chlorine residuals. Customer complaints went from 5 per month to Zero. SeaQuest resolved in 4 months what 20 plus years of using many other phosphate blends couldn't accomplish.

System wide Flushing at the hydrants in Magnolia today takes **less than 30 seconds** for clear water to appear.

Reference calls for Magnolia, IL can be made to the General Manager at 815-224-1650 extension # 232.

THE RESULTS FROM USING SEAQUEST:

1. **40% Less Chlorine Usage to maintain IL-EPA Residuals.**
2. **Customer Complaints went from 5 Per Month down to 0 (100% Reduction).**
3. **System Wide Flushing went from once a month down to the standard maintenance flushing of only once every six months (83% Less Yearly Flushing).**
4. **System wide Flushing time dropped from 1 ½ weeks down to 2 days (About 81 % less Flushing time and less water usage).**
5. **Flushing hydrants now produce clear water in less than 30 seconds.**
6. **NO MORE Boil Orders!**