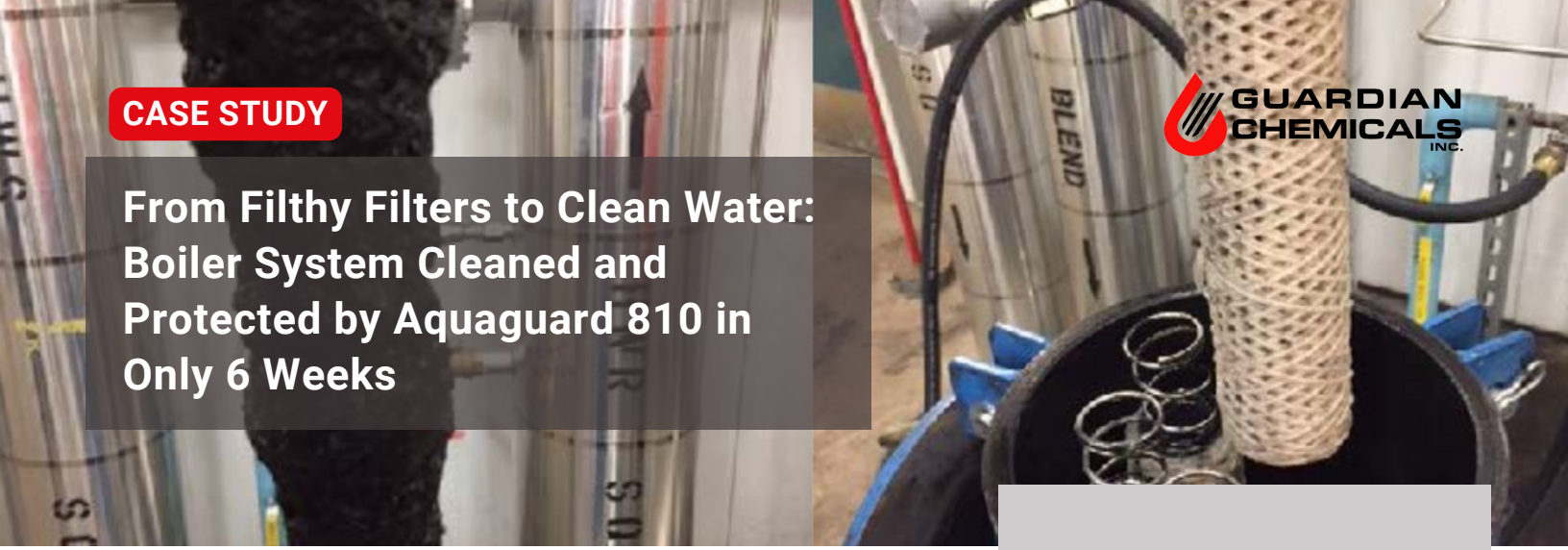

CASE STUDY

From Filthy Filters to Clean Water: Boiler System Cleaned and Protected by Aquaguard 810 in Only 6 Weeks

GUARDIAN CHEMICALS INC.

CHALLENGES

A 200,000 L system with five gas fired hot water heating boilers operated several years without treatment, increasing risk for severe corrosion damage. Regular blow down and fresh water addition failed to prevent costly shutdowns and cleaning. Pressure gauges and filters regularly plugged with corrosion by-products and debris.

SOLUTIONS

System assessment was completed and Aquaguard 810, an all-organic boiler treatment introduced. Equipment improvements included addition of a two gallon pot feeder, pressure gauge replacement, and installation of a relief valve in the filter housing.

RESULTS

Clean Water and Clean System

After only 6 weeks of treatment, boiler water and filters were clean and clear.

Protected from Corrosion

Aquaguard 810 removed corrosion by-products from system, replacing them with a protective chemical film to protect the system from future corrosion. Iron levels in water dropped from 3.3 ppm to 0.19 ppm.

No More Shutdowns or System Pre-Cleaners

System pre-cleaners and shutdowns were eliminated, reducing system maintenance costs and enhancing reliability.

AT A GLANCE

Poor water quality and lack of treatment in this process water boiler system, meant regular shutdowns and cleaning were required. Aquaguard 810 and process improvements were introduced. The result, clean water, reduced maintenance cost, corrosion protection and no more costly shutdowns and cleaning.

KEY METRICS

Initial treatment fed over 6 weeks resulted in a 3.11 ppm reduction in iron levels. Continuous treatment eliminated the need for pre-system cleaners and shutdowns.

94% DROP
IN DISSOLVED IRON

6 WEEKS
FROM FILTHY TO CLEAN

CASE STUDY

GUARDIAN CHEMICALS INC.

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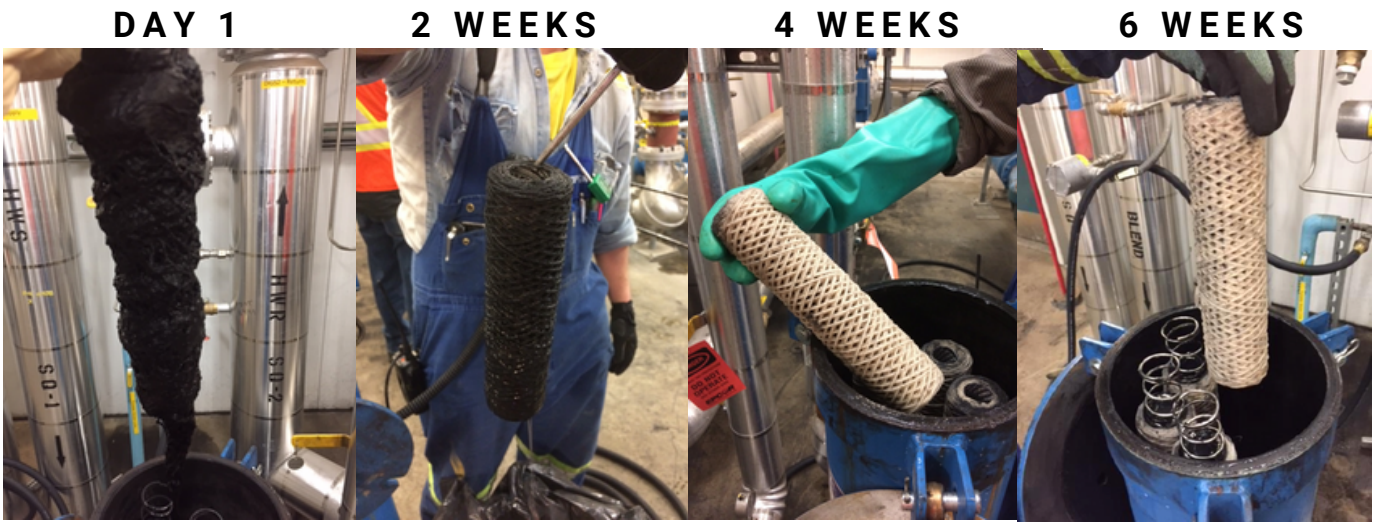
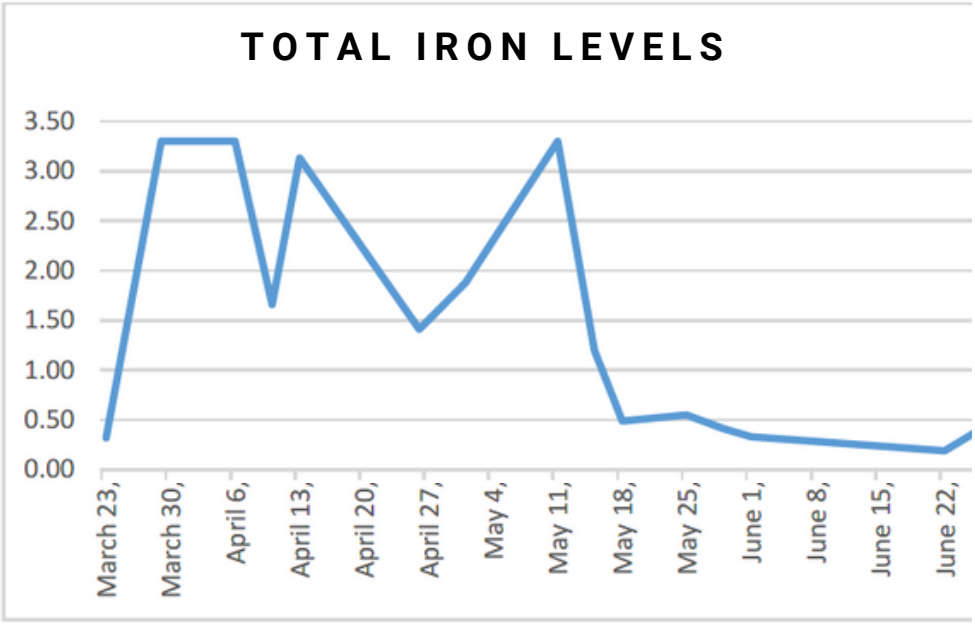
DATA



Aquaguard 810 System Cleaning Effect—suspended solids and surface contaminants being cleaned and removed from system in only 6 weeks.

Pre-existing foulant removal by Aquaguard 810—demonstrated by monitoring total iron concentration. Treatment resulted in a clean, well-protected system.