



CASE STUDY

Water Treatment:

Hot Water & Chilled Water Loops

Operational Since 2020



Currier Museum of Art
Manchester, NH

THE PROBLEM:

The Currier Museum of Art features European and American paintings, decorative arts, photographs, and sculpture. Management contacted Conservation Solutions Corporation (CSC) about reducing water use and costs in the building and CSC completed a detailed water study. Management was also unhappy with the chemical treatment program for Currier Museum which was affecting the heat transfer efficiency of the HVAC equipment and the hot water & chilled water loops were dirty.

THE SUSTAINABLE SOLUTION:

CSC provided a sustainable non-hazardous ProMoss™ Water Treatment System to stabilize pH, control corrosion, eliminate calcite scale in the hot and chilled water loops. This system eliminates hazardous chemical previously use for the water treatment system at the Currier Museum of Art. The ProMoss™ system uses nature's way – Sphagnum Moss to treat water by creating a cation reaction that enables the moss to absorb metals such as calcium, iron and magnesium. The result is crystal clear water, and clean heat transfer surfaces to optimize energy efficiency on chilled water, hot water and glycol closed loops. Management was pleased to see the hot water and chilled water loops become crystal clear within the 1st month after installing the ProMoss™ system and have stayed clean for the last year the last years making for a "greener" operation at the Currier Museum". The Currier Art Museum has invested in a "greener" building with excellent financial gains by reducing water use and increased energy efficiency due to less fouling. The ProMoss system is simple, sustainable, and safe for staff and contractors.

THE RESULTS

- Eliminated Use & Cost of Hazardous Chemicals
- Reduced Energy and Water Costs
- Improved Working Environment for Staff by Eliminating the Need to Handle Chemicals
- Protecting the Cooling & Heating Systems from Corrosion, Eliminates Calcite Scale
- "Greener" Building



Hot Water loop
before ProMoss Water
Treatment



Hot Water loop after 4 months
of ProMoss Water Treatment.

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