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For Immediate Release

Earthwise Environmental Case Study: Hospital Central Plant

BENSENVILLE, Ill. – One of the largest teaching hospitals in Illinois is also home to a central plant with 7,000-tons of cooling tower capacity and a 100,000-gallon central chilled water loop. The hospital’s discovery of positive *Legionella* counts in its cooling tower system and excessive corrosion in its chilled water system required immediate intervention.

The Earthwise Environmental Inc.™ engineering survey and inspection process found leaking chemical feed stations and insufficient biocide feeds, as well as the absence of a proper *Legionella* control program.

Further inspection found the chilled loop system running at a corrosive pH of 5.5 with over 100+ PPM of dissolved iron. Neither a filter changing program nor any corrosion coupon studies were in place.

Earthwise created and instituted solutions to the central plant’s challenges that served to: reduce the hospital’s liability from hazardous chemicals and potential *Legionella*; provide labor savings; create increased energy efficiency; and ensure long-term protection of equipment.

Specific Solutions:

Cooling Tower

- Custom design of new feed and control system
- Initiation of dual *Legionella*-specific biocide program and testing
- Computer-based 24-7 monitoring and control capability
- Weekly service visits

- more -

Earthwise Environmental Overview//Add One

Chilled Loop

- Developed a custom-formulated product to raise and buffer pH to 9.0
- Instituted a “Step-down” filter approach from 25-10-5 micron in three months.
- Switched to silica-based corrosion inhibitor for multi-metal protection

Favorable Outcomes:

- Reduced the hospital’s liability and environmental impact from hazardous chemicals use and storage.
- Proactive Legionella control has consistently led to 0 positive results, insuring the safety of the hospital employees and patients.
- Installation of a “real time” 24-7 on line monitoring system reduced staff labor hours and provides instant information on water conditions throughout the plant.
- Insuring long-term protection of the chilled piping system eliminates need for costly capital replacement
- Reduction of labor hours for filter changes
- Cleaner heat transfer surfaces resulted in increased efficiencies and lower energy costs.

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Earthwise Environmental Inc.™ provides environmentally-sound water management options to clients including hospitals, schools, hotels, food processing plants, light industrial and commercial buildings. The company offers proactive programs designed to reduce water consumption while helping clients understand the real energy impact of poorly managed water programs and the potential for energy savings. Earthwise also provides programs that manage and prevent waterborne diseases and is an established leader in the field of proactive control and education to prevent Legionnaires’ disease created by the waterborne Legionella organism. Earthwise recommendations for Legionnaires’ disease prevention exceed new industry standards set by ASHRAE. Chicago-area clients include Northwestern Memorial Hospitals, University of Chicago Hospitals, Soldier Field Stadium and Hamilton Partners’ entire portfolio of commercial office buildings. For more about Earthwise Environmental, visit the company’s newly redesigned website at www.EarthwiseEnvironmental.com.

Attention Editors: Robert Miller, founder and president of Bensenville, Ill.-based Earthwise Environmental Inc., is available for interviews on a wide variety of water management topics. To arrange an interview, contact Sue Markgraf, GreenMark Public Relations, at 847-970-9160 or smarkgraf@greenmarkpr.com.