

SUSTAINABLE WATER TREATMENT TECHNOLOGY



WHY TREAT COOLING TOWERS?

SCALE



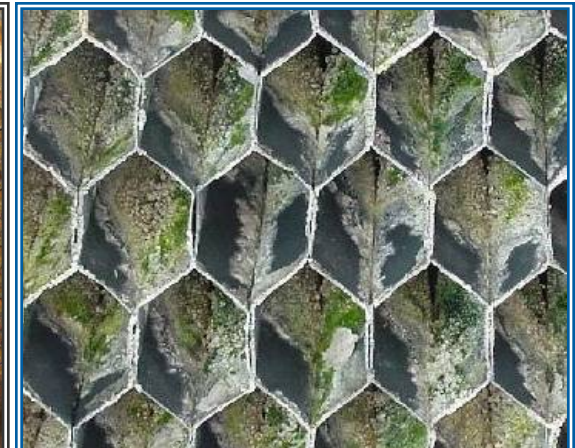
INCREASES ENERGY,
MAINTENANCE AND
CLEANING COSTS

CORROSION



SHORTENS EQUIPMENT
LIFE AND INCREASES
CAPITAL EXPENSES

BACTERIA

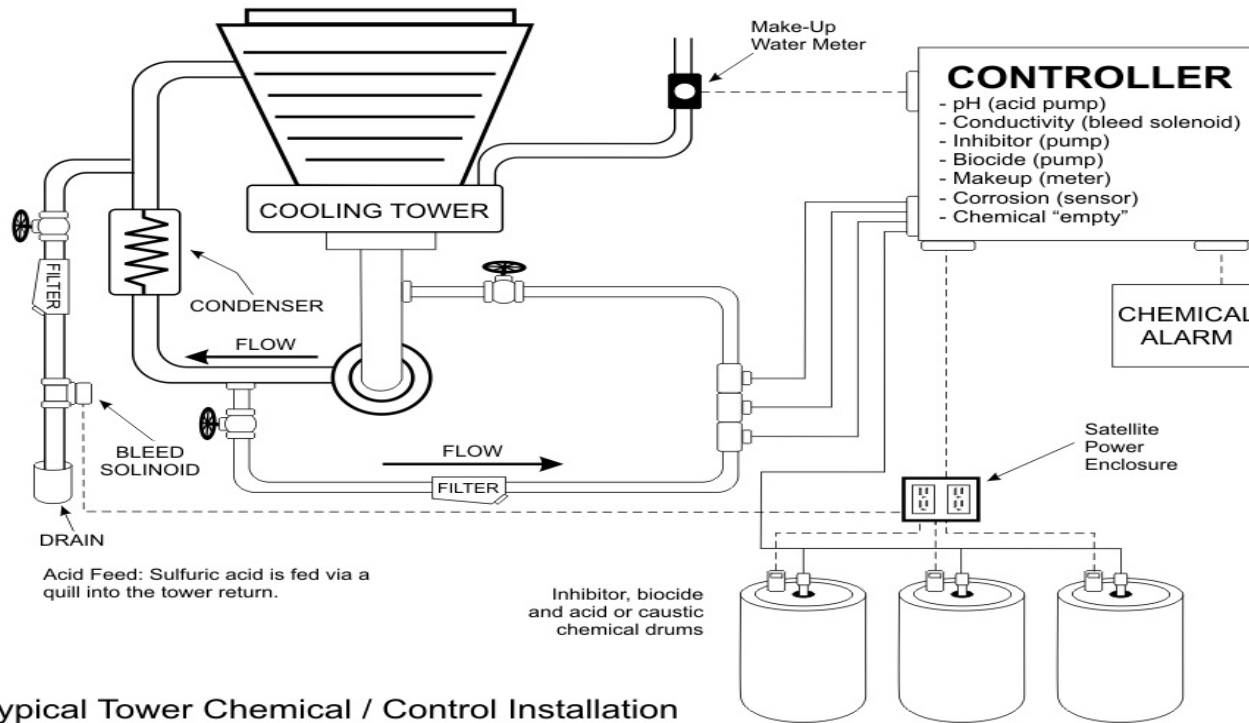


6X MORE INSULATING
THAN SCALE
AND HEALTH/SAFETY
RISKS



SUSTAINABILITY

TRADITIONAL WATER TREATMENT



WHY DOES TRADITIONAL WATER TREATMENT FAIL?

1. PROGRAMS RELY ON BLOW DOWN CONTROL
 - SOLENOIDS FAIL
 - MAKEUP FLOATS FAIL
 - CONTROLLER REQUIRE FREQUENT CALIBRATION
2. MULTIPLE CHEMICALS NEEDED
 - DIFFICULT TO MAINTAIN PROPER DOSAGE
 - ONSITE INVENTORY AND SECONDARY CONTAINMENT REQUIRED
 - WATER QUALITY VARIATIONS
3. POOR CHOICE OF PROGRAM CHEMISTRY
4. INCONSISTENT SERVICE PROVIDER
 - LEADERSHIP AND TRAINING SUPPORT

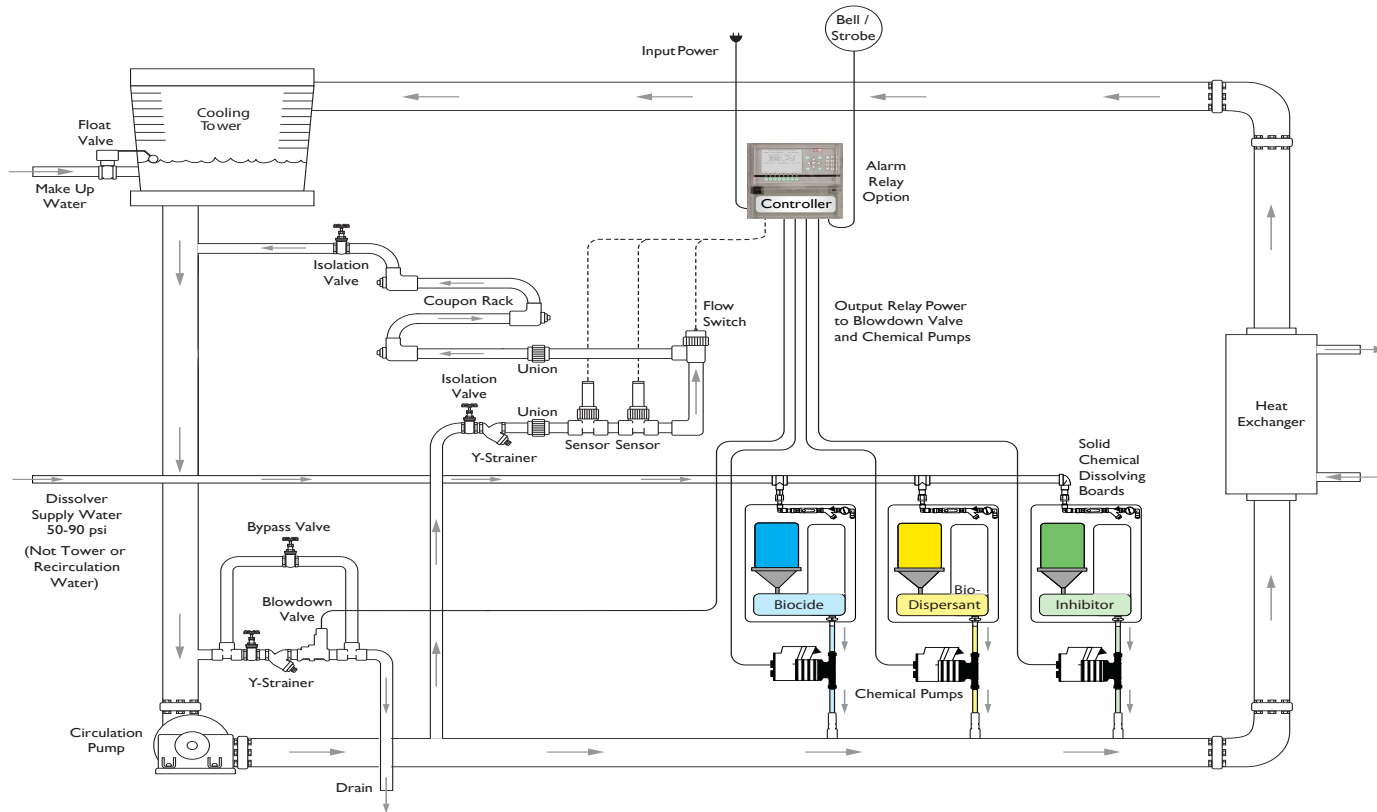


CAPTURE H₂O's SUSTAINABLE APPROACH

- **PARTNERSHIP WITH OUR CLIENTS**
- **IMPROVE FEED SYSTEM -**
 - USE SOLID FEEDERS AND SOLID CHEMISTRY
 - ELIMINATE PUMPS AND TANKS
 - ELIMINATE CHEMICAL HANDLING AND TRANSFERS
- **INCORPORATE PERFORMANCE MONITORING**
 - USE EXPANDABLE COND/PH CONTROLLER PLATFORM
 - OBTAIN REBATES FROM SOCALWATERSMART.COM
 - MAKEUP AND BLOWDOWN WATER METERS
 - REAL TIME CORROSION MONITORS
 - FLOUROMETER TO CONTROL CHEMISTRY
 - WIRELESS ROUTER AND AIR CARD
- **PROVIDE OPERATOR TRAINING AND MANUALS**



TYPICAL INSTALLATION

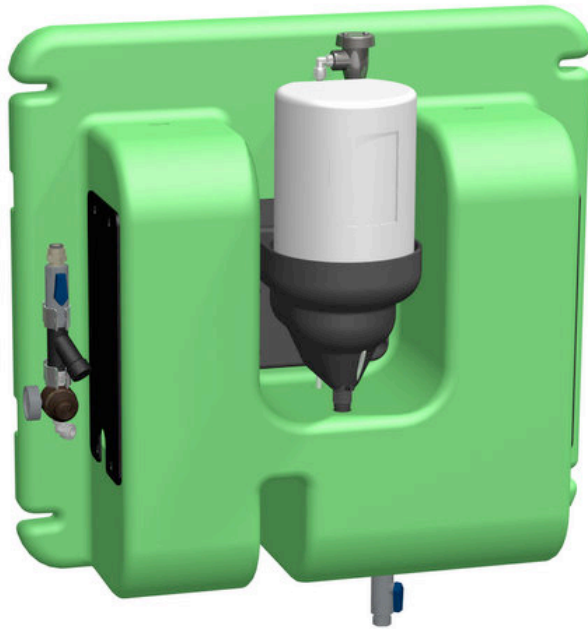


Typical Cooling Tower Installation



SUSTAINABILITY

TYPICAL INSTALLATION



SOLID FEEDER



EXPANDABLE PERFORMANCE CONTROLLER

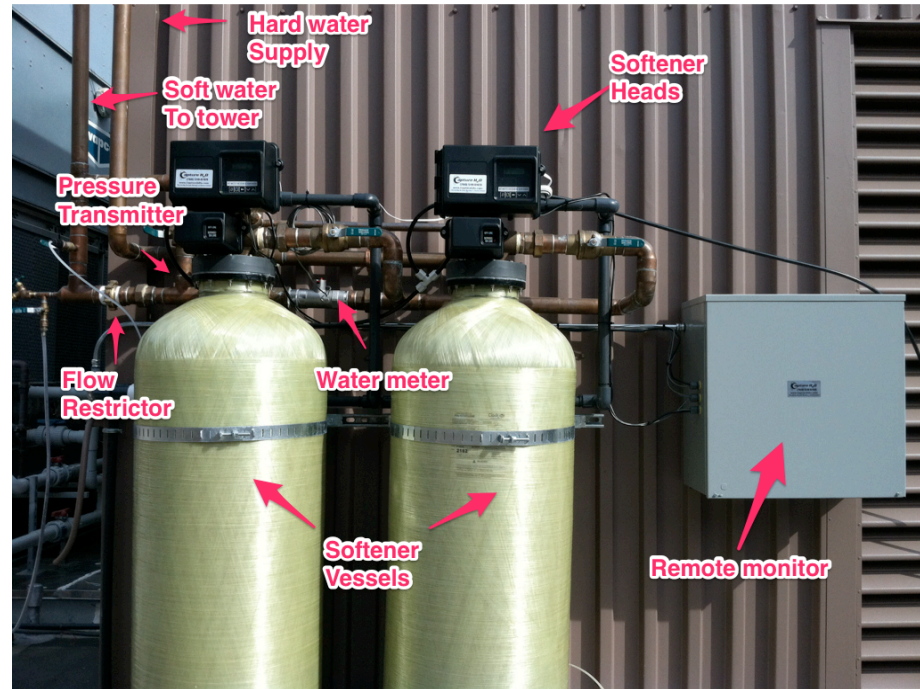


SUSTAINABILITY

TYPICAL INSTALLATION



CORROSION MONITOR



PRE-TREATMENT ON LARGE SYSTEMS



TYPICAL RESULTS

- WORLD CLASS SCALE, CORROSION AND BACTERIA CONTROL
- ELIMINATION OF LIQUID CHEMICALS, PUMPS AND TANKS
- WATER REDUCTIONS
- SEWER REDUCTIONS
- SIMPLIFICATION OF WATER TREATMENT PROGRAM
- MORE CONSISTENT AND RELIABLE PERFORMANCE
- WE BRING VISIBILITY TO YOUR COOLING SYSTEM



CLEAN COOLING TOWERS AND CHILLERS



CLEAN TOWER FILL



CLEAN CHILLERS



SUSTAINABILITY

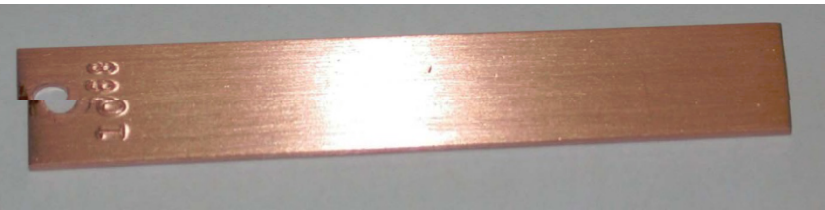
TYPICAL CORROSION RESULTS

NACE INDUSTRY STANDARDS FOR OPEN RECIRCULATING
COOLING WATER

	<u>Excellent</u>	<u>Good</u>	<u>Acceptable</u>
Mild Steel:	<2.5 mpy	2.6-4.0 mpy	4.1-5.5 mpy
Yellow Metal:	<0.4 mpy	0.5-0.8 mpy	0.9-1.2 mpy



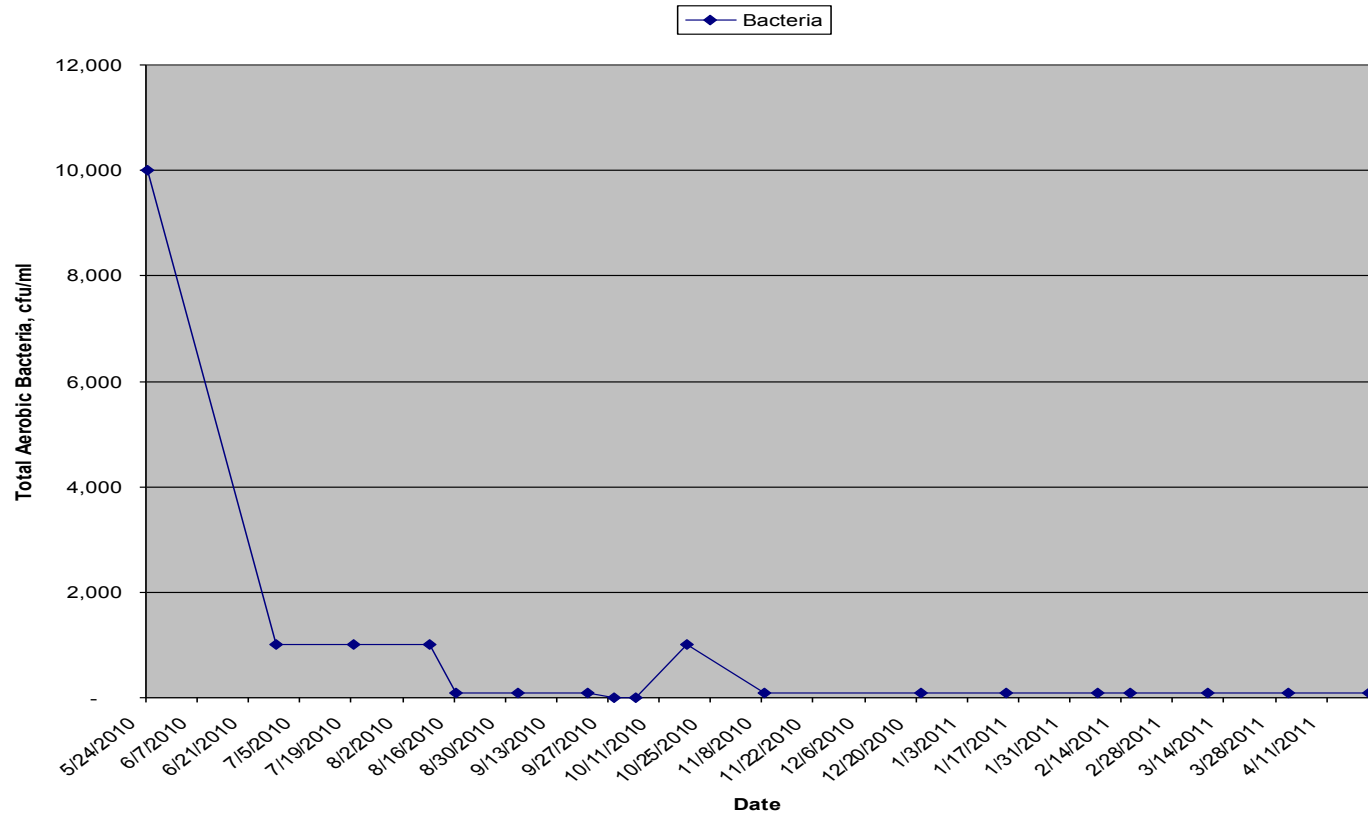
TYPICAL MILD STEEL CORROSION – 1.5 MPY



TYPICAL COPPER CORROSION – 0.08 MPY



MICROBIOLOGICAL CONTROL

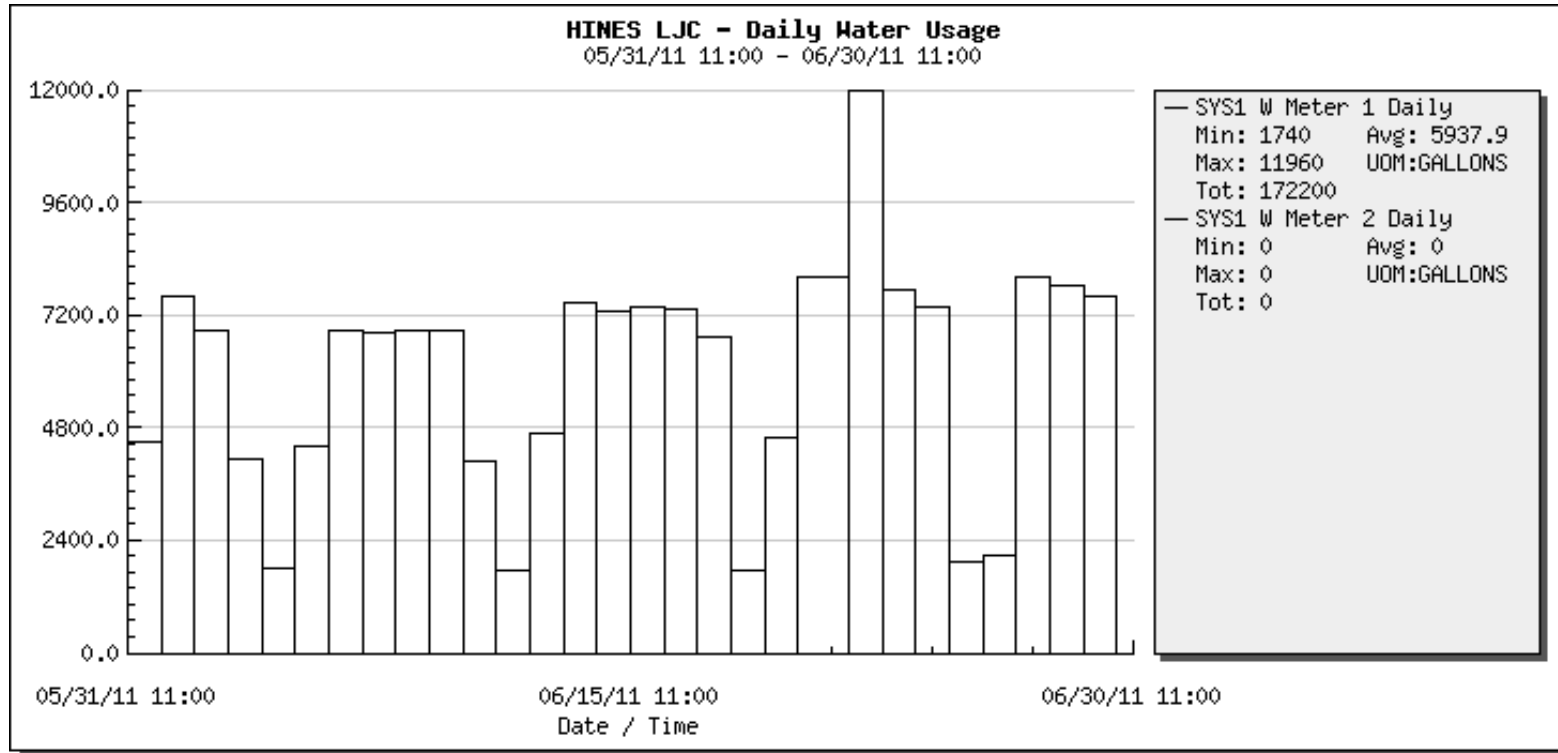


REMOTE PERFORMANCE MONITOR

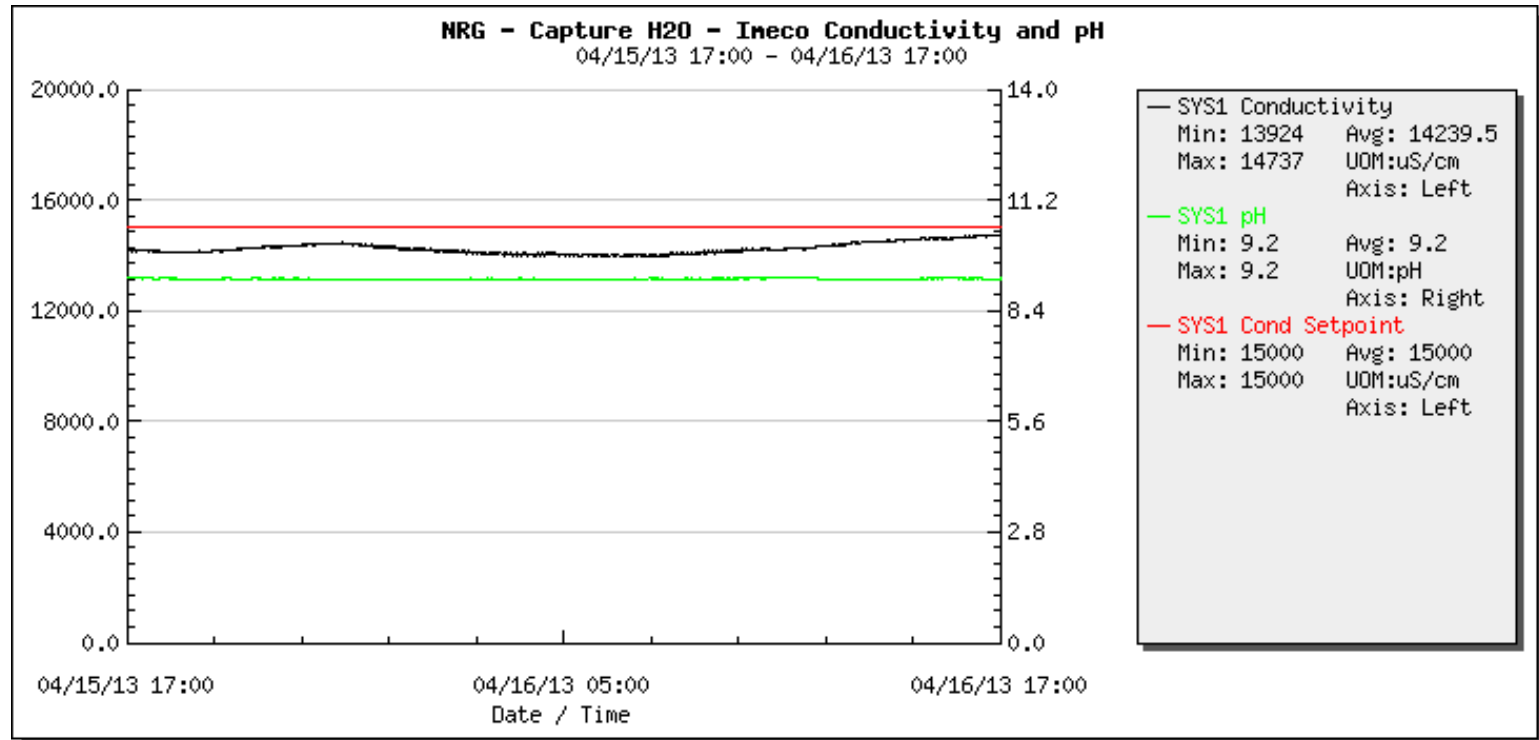
- MONITORS WATER QUALITY, WATER USAGE, PRESSURE, CONDUCTIVITY AND PH AND CHEMICAL LEVELS
- MONITORS 24/7/365
- SEND ALARMS AND REPORTS TO USERS
- EXCELLENT DIAGNOSTIC TOOL



REMOTE MONITOR WATER / SEWER USAGE

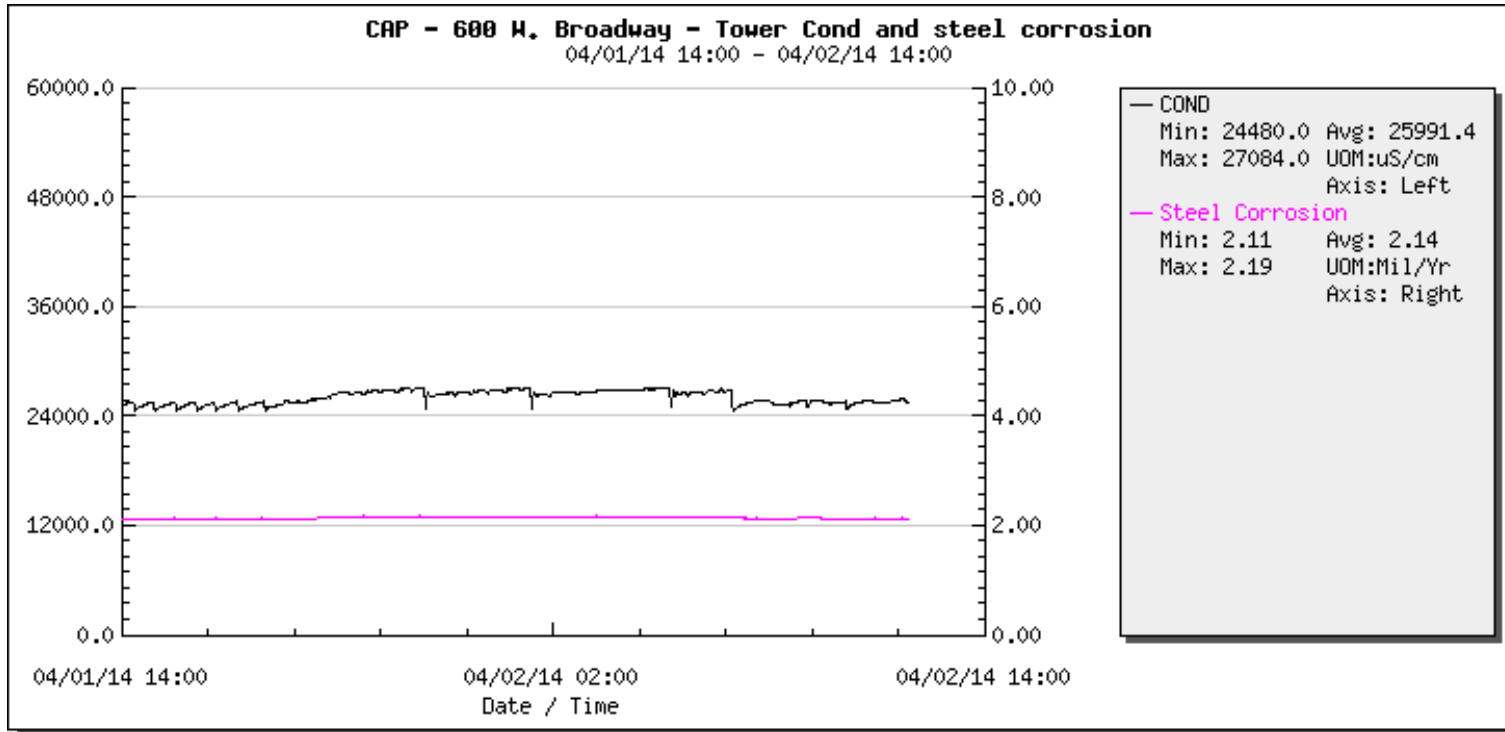


REMOTE MONITOR CONDUCTIVITY AND PH



SUSTAINABILITY

REMOTE MONITOR STEEL CORROSION



IMPLEMENTATION

- SITE SURVEY
- EQUIPMENT SIZING AND PRICING
- APPLY FOR REBATES
- EQUIPMENT INSTALLATION
- MONTHLY SERVICE

