To Whom It May Concern:

As the leader of the CSUN Grounds Department since 2008, I've had the opportunity to utilize multiple vendors and resources to accomplish a wide variety of projects centered on irrigation water management. One of the techniques we have implemented here at CSUN is to install flow sensors and master valves on each of our 60+ irrigation controllers. Our computerized controller system has its own weather station to gather needed data. The software system can recognize and adjust our pre-determined watering schedules, based on wind, temperature, relative humidity and other relevant factors. Our in-house IT department has been able to mine specific data from the software. The data is displayed on a 55" monitor in the Grounds shop showing high and low flow alarms, fault location/s, as well as other pertinent data, for interpretation by our Irrigation Specialist team.

Another water savings technique has been to renovate poorly utilized turf areas on campus. We have developed a data driven list of low water/native and non-native plants for use in these renovation areas. Combined with the change from traditional irrigation systems to drip irrigation systems, we have been able to produce consistent data that clearly shows a dramatic drop in irrigation water use on the campus. This change of aesthetic has been widely accepted by the students, faculty and staff of the campus in recognition of our need to conserve our precious water resources.

Monitoring of the irrigation system daily, allows for a constant and consistent maintenance effort. Our water savings can be and have been substantiated through the collected data from our system.

Best Regards,

James Logsdon

Assistant Director, Grounds and Events

Physical Plant Management

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