



May 11, 2013

Luke Timmons  
Rain Bird Corporation  
970 W Sierra Madre Ave  
Azusa, CA 91702

**Re: “Rain Bird PRS Test Program” / Rotor Test Summary**

Dear Luke,

AQUASave is pleased to submit this summary to Rain Bird Corporation for the “**PRS Test Evaluation Program**”. This audit was conducted per the project specifications and documents provided by Rain Bird and consistent with the Irrigation Association’s Lower Quarter Distribution Uniformity methods.

**Site overview**

The subject irrigation zone for this audit is a south facing slope with established drought tolerant trees, shrubs and ground covers. The subject irrigation equipment was a row of large rotors at the top of the slope on approximately forty foot spacing and throwing 180° southward down the 2:1 slope. The reciprocal lateral line at the toe of slope was not part of this audit.

**Audit Data:**

The audit data sheets in the prescribed format, with a few additions for clarity, are presented at the end of this audit summary. (See audit data sheets)

**Summary of Audit Results:**

**Pre-Audit:** The pre-audit segment of the test was performed on the existing irrigation system components without the PRS and resulted in the following system observations;

<b>Pre-Audit</b>	<b><u>Control Test</u></b>
• System Efficiency (DU)	43%
• Scheduling Coefficient	5.2
• Flow rate*	29.6 gpm
• Volume of water used for test	553 gallons

( \* ) Flow rate read from controller (not calculated).



**Post- Audit:** Following the pre-audit the shrub risers were fitted with the Rain Bird PRS devise using the same heads and nozzles as the control test of the pre-audit. The results were:

Post - Audit	<u>Test # 1</u>	<u>Test # 2</u>
• System Efficiency (DU)	55%	58%
• Scheduling Coefficient	1	1
• Flow rate*	27.4 gpm	27.4 gpm
• Volume of water used for test	512 gallons	513 gallons

( \* ) Flow rate read from controller ( not calculated).

**Findings Summary:**

Audit Performance Summary	<u>Test # 1</u>	<u>Test # 2</u>
• System Efficiency (DU)	13% (better)	15% (better)
• Scheduling Coefficient	82% (better)	82% (better)
• Flow rate	7.4% (better)	7.4% (better)
• Volume of water used for test	7.2% (better)	7.2% (better)

In closing, the data collected reflects that the addition of the Rain Bird PRS to an existing rotor irrigation system successfully reduces water consumption while at the same time results in improved system efficiency.

We thank you for considering AquaSave Inc. for this project and we look forward to working with Rain Bird on its successful completion.

Sincerely,  
**AquaSave Inc.**

*Bob Simpson*

Bob Simpson CLIA, CLT-I, ISA  
President

