

Tea Cup Park | Water Efficiency Report

September 15, 2010

Site: Tea Cup Park
 Location: Providence, Texas
 Prepared For: Premier Properties

Objective

The purpose of this demo project was to illustrate the savings a Baseline 3200 controller, Baseline soil moisture sensors and Baseline flow management devices could provide Providence Village and other Premier properties in their implementation of a water management program.

Why Baseline?

Baseline is the Industry leader in advanced water management solutions, utilizing smart controllers and patented soil moisture sensor technology to execute the most intelligent irrigation decisions. Baseline soil moisture sensors provide consistent, detailed and accurate data to the Baseline controller, enabling the controller to make real-time irrigation decisions. Use of soil moisture sensors in conjunction with a Baseline controller enables significant water savings by preventing unnecessary water events. Simply put, the controller will only allow irrigation when the soil is sufficiently dry.

Please visit www.baselinesystems.com for complete information and specifications on all Baseline products.

Analysis

Evaluation period: May 2, 2010 to August 31, 2010

	May	June	July	August	Average
Scheduled Water Events	230	230	296	225	245
Actual Water Events	118	53	86	146	101
% Reduction of Water Events	-48.70%	-73.75%	-67.74%	-34.35%	-56.13%
Scheduled Water Usage (Gallons)	305,827.40	349,892.64	352,715.36	261,568.89	317,501.07
Actual Water Usage (Gallons)	190,651.81	76,335.20	101,038.21	180,800.09	137,206.33
% Reduction of Water Usage	-37.66%	-78.18%	-71.35%	-30.88%	-54.52%

Baseline products **reduced the water used by 54.52%**.

Assumptions

Assumptions had to be made to complete this analysis. Those assumptions included the following:

- Schedule data prior to the Baseline Products being installed was not available for comparison. Because a conventional timer-based controller would execute all scheduled watering events, the scheduled events are used as a comparison point against the actual watering events. Please see the attached monthly charts for complete information.
- Flow data prior to the Baseline products being installed was not available for comparison. Scheduled flow data was calculated by zone and day by multiplying the learned flow information (Gallons per Minute) by zone (Flow information was obtained on May 2) and the scheduled run time. Please see the attached monthly charts for complete information.
- Zone 3 was a "Timed" zone with no link to a soil moisture sensor. Therefore, programming for Zone 3 shows no difference between scheduled vs. actual run time. Nevertheless, Zone 3 data was included in the water savings calculations to give a complete picture of the whole site.

June 2010 - Water Event and Flow Comparison																																			
Zone Number	1	2	3	4	5	6	7	8	9	10																									
Zone Flow - Learned (GPM)	60,547	31,750	50,094	45,477	35,922	55,656	28,914	43,448	33,070	58,445																									
Date	Tuesday, June 01, 2010	Wednesday, June 02, 2010	Thursday, June 03, 2010	Friday, June 04, 2010	Saturday, June 05, 2010	Sunday, June 06, 2010	Monday, June 07, 2010	Tuesday, June 08, 2010	Wednesday, June 09, 2010	Thursday, June 10, 2010	Friday, June 11, 2010	Saturday, June 12, 2010	Sunday, June 13, 2010	Monday, June 14, 2010	Tuesday, June 15, 2010	Wednesday, June 16, 2010	Thursday, June 17, 2010	Friday, June 18, 2010	Saturday, June 19, 2010	Sunday, June 20, 2010	Monday, June 21, 2010	Tuesday, June 22, 2010	Wednesday, June 23, 2010	Thursday, June 24, 2010	Friday, June 25, 2010	Saturday, June 26, 2010	Sunday, June 27, 2010	Monday, June 28, 2010	Tuesday, June 29, 2010	Wednesday, June 30, 2010	Totals				
Scheduled to Water	90	45	45	45	45	45	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	24			
Actual Water Event	90	45	45	45	45	45	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	24			
Scheduled Run Time	15	30	30	30	30	30	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	24			
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