

# Irrigation Audit Checklist

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## A. Project & Auditor Information

Inspection Date \_\_\_\_\_

Project Name \_\_\_\_\_

Project Address \_\_\_\_\_

Application Number \_\_\_\_\_

Irrigation Auditor Name \_\_\_\_\_

Irrigation Auditor Company \_\_\_\_\_

Irrigation Auditor Address \_\_\_\_\_

Irrigation Auditor Phone Number \_\_\_\_\_

Irrigation Auditor Email \_\_\_\_\_

Auditor Certified by:

- Irrigation Association
- EPA WaterSense program
- Other: \_\_\_\_\_

Note: For large projects or projects with multiple landscape installations (i.e. production home developments), an auditing rate of 1 in 7 lots or approximately 15% satisfies the audit requirement.

## B. Audit Report

APPLICANT	ITEM	FOR AUDITOR	
		PASS	FAIL
<input type="checkbox"/>	1. Separate landscape customer service water meter or private submeter has been installed as applicable:	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	a. Non-residential projects: Greater than 1,000 sf landscape area	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	b. Residential projects: Greater than 5,000 sf landscape area	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	2. The irrigation audit report includes:	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	a. System inspection	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	b. Inspect for leaks	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	c. System tune-up	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	d. Test the operating pressure of the irrigation system	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	e. Test to determine distribution uniformity	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	f. Test to determine precipitation rate of representative overhead irrigation valves	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	g. Confirm matched precipitation rates on valves with sprinkler heads, rotors and other emission devices	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	h. Report of any overspray or broken irrigation equipment	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	i. Report of overspray or run off that causes overland flow	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	j. Written recommendations to improve performance of the irrigation system	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	k. Preparation of an irrigation schedule, including configuring irrigation controllers with application rate, soil types, plant factors, slope, exposure and any other factors necessary for accurate programming	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	l. Other:	<input type="checkbox"/>	<input type="checkbox"/>

## C. Irrigation Equipment

APPLICANT	ITEM	FOR AUDITOR	
		PASS	FAIL
<input type="checkbox"/>	1. Irrigation equipment is installed (location, type and size) as shown in the approved plans:	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	a. Automatic controller is ET-based or soil moisture-based and includes:	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	I. Irrigation scheduling parameters	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	II. Hydrozone map	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	b. Sensors installed include rain, frost (if necessary) and wind sensors (if necessary)	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	c. Point of connection includes:	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	I. Backflow prevention devices (if necessary)	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	II. Manual shut-off valve (gate, ball, butterfly valve)	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	III. Master shut-off valve	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	IV. Flow sensor for landscapes over 5,000 sf only	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	d. Valves (station)	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	I. Flow rate (gpm)	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	II. Application rates (in/hr)	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	III. Design operating pressure:	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	e. If static pressure is above or below required dynamic pressure of the system, pressure-regulating devices are installed	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	2. Main and lateral lines	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	3. Sprinkler heads	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	a. No spray heads within 24 inches of non-permeable surface	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	b. Sprinkler heads and other emission devices have matched precipitation rates	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	c. Swing joints or other riser protection provided in high traffic areas and areas near hardscape	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	4. Low volume irrigation (drip, drip lines, and bubblers) is used in mulched planting areas (no spray irrigation) and in areas less than 10 feet wide	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	5. Slopes greater than 25% are irrigated with an application rate not exceeding 0.75 inches per hour	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	6. Runoff, low head drainage, overspray, or other similar conditions where irrigation water flows onto non-targeted areas are prevented	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	7. Check valves or anti-drain valves are installed to prevent low head drainage	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	8. Pressure regulating devices are used if the static water pressure at the connection of the public water system does not match the water pressure needs of the irrigation system	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	9. Check irrigation legend and manufacturer's online data that sprinkler heads and other emission devices have matched precipitation rates	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	10. Confirm that swing joints or other riser protection are provided in high traffic areas and areas near hardscape	<input type="checkbox"/>	<input type="checkbox"/>

## D. Hydrozones

APPLICANT	ITEM	FOR AUDITOR	
		PASS	FAIL
<input type="checkbox"/>	1. Match on the landscape plan and irrigation plan	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	2. Are irrigated by valves with similar site, slope, sun exposure, soil conditions, and plant materials with similar water use	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	3. Trees are on separate valves	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	4. Biotreatment areas are on separate valves	<input type="checkbox"/>	<input type="checkbox"/>

## E. Water Features

APPLICANT	ITEM	FOR AUDITOR	
		PASS	FAIL
<input type="checkbox"/>	1. Use recirculating water systems	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	2. Use recycled water if available	<input type="checkbox"/>	<input type="checkbox"/>

## F. Irrigation Schedules

APPLICANT	ITEM	FOR AUDITOR	
		PASS	FAIL
<input type="checkbox"/>	1. Irrigation schedules have been developed, managed, and evaluated to utilize the minimum amount of water required to maintain plant health. Irrigation schedules shall meet the following criteria:	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	a. Irrigation scheduling is regulated by automatic irrigation controllers	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	b. Overhead irrigation is scheduled between 8:00 p.m. and 10:00 a.m. unless weather conditions prevent it	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	c. Irrigation schedules shall be regulated by automatic irrigation controllers using current reference evapotranspiration data (e.g., CIMIS) or soil moisture sensor data	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	2. The irrigation schedules have been developed to include the parameters used to set the automatic controller and are submitted for each of the following:	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	a. Plant establishment period	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	b. Established landscape	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	c. Temporarily irrigated areas	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	3. Each irrigation schedule includes the following that apply for each station (valve):	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	a. Irrigation interval (days between irrigation)	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	b. Irrigation run times (hours or minutes per irrigation event to avoid runoff)	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	c. Number of cycle starts required for each irrigation event to avoid runoff	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	d. Amount of applied water scheduled to be applied on a monthly basis	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	e. Application rate setting	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	f. Root depth setting	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	g. Plant type setting	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	h. Soil type	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	i. Slope factor setting	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	j. Shade factor setting	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	k. Irrigation uniformity or efficiency setting	<input type="checkbox"/>	<input type="checkbox"/>

**G. Reviewer Comments**

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