

Water Conservation Plan Form

Golf Course Irrigation

GENERAL INFORMATION

Applicant Name: _____

Project Name: _____

CUP Number: _____

Date: _____

Agent's Name: _____

2.2.6.1 Applicant's Handbook

Each applicant for a consumptive use permit for landscape/recreation/aesthetic use types must submit a water conservation plan for their facility to the District at the time of permit application. The plan must contain specific activities designed to conserve water. At a minimum, the water conservation plan must include:

- (a) A program for increasing the water use efficiency of the applicant's operation. Appendix F provides an outline of water conservation measures which the applicant may undertake to meet this requirement. Individual provisions in Appendix F are not requirements per se, and do not exclude alternative conservation measures the applicant may wish to propose to the District.
- (b) Development and implementation of an employee awareness and player education program concerning water conservation.
- (c) Procedures and time frames for implementation, and for periodic assessment and revision of the water conservation plan.

Applicants may be able to fulfill the water conservation plan element (a) by demonstrating current water conserving activities which meet the intent of the element. In evaluating whether existing water conserving activities are sufficient to meet the applicable criteria in Rule 40C-2.301, F.A.C., the District will take into consideration the use type and efficiency of the specific use relative to other similar uses.

NOTE: Applicants are not required to fill out this form. It is a suggested form to assist applicants with developing a water conservation plan. Appendix F is found in the Applicant's Handbook (online at www.sjrwmd.com/handbooks/pdfs/CUPhandbook.pdf). Please note Section B on pages F-2 and F-3.

SECTION I – WATER USE EFFICIENCY

1. A water audit of the golf course irrigation system is recommended and may be required by permit condition. A water audit accounts for all water coming into and going out of a distribution system, such as an irrigation system, with the intent of determining the operational efficiency of the system as well as identifying sources of water loss and revenue loss. The water audit should evaluate the distribution uniformity (DU) and application efficiency (AE) of the irrigation system.

Have you performed a water audit of your operation?

YES ☐ NO ☐

If yes, who performed the audit? _____

When was the audit performed? _____

Please provide a summary or results of the audit.

Describe all corrections and repairs that were made as a result of the audit and any additional improvements proposed to be implemented.

2. What direct and indirect water saving practices do you use or are proposing to use? Mark all that apply.

Water Saving Practice		Current	Proposed
<input type="checkbox"/>	Rainfall shutoff device(s)	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Rain gauges	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	On-site weather station	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Smart irrigation controller system System Make/Model: _____ _____	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Float control device (controlling water level in irrigation ponds)	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Installation of lining in ponds used for irrigation	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Implementation of irrigation consultant or water audit recommendations.	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Implementation of strategies obtained from attending an irrigation management educational session. Describe each strategy that will be implemented: _____ _____	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Judgment Explain how judgment applied: _____ _____	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Other (including research projects) Explain: _____ _____	<input type="checkbox"/>	<input type="checkbox"/>

3. What factors are used to determine the irrigation schedule (duration and frequency) for the site?

4. Is the irrigation system designed to achieve maximum distribution uniformity and areas with similar irrigation requirements are on the same irrigation zone? YES ☐ NO ☐

If no,

Either propose a plan to redesign the irrigation system to achieve maximum distribution uniformity and place areas with similar irrigation requirements are on the same irrigation zone, or explain why such a redesign cannot be implemented.

SECTION II – GOLF COURSE TURF

1. What golf course water conservation practices do you use or are proposing to use?
Mark all that apply.

Golf Course Conservation Practices		Current	Proposed
<input type="checkbox"/>	Reduction in irrigated turf grass acres, such as roughs and non-play areas Number of acres removed from irrigation _____ Number of acres not irrigated _____	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Reduction in irrigated landscape acres Number of acres removed from irrigation _____ Number of acres currently irrigated _____	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Golf course area is planted with site appropriate or natural vegetation that are not irrigated Number of acres of natural vegetation _____	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Soil improvements (example: addition of topsoil or soil amendments)	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Mulching (applied to a depth of 2-4 inches, leaving 2-inch space around base of plants)	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Elimination of overseeding (mark all that apply) <ul style="list-style-type: none"> • Greens and Tees • Fairways • Roughs • Landscape Areas 	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/>	Audubon Cooperative Sanctuary Program Certification	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Florida Irrigation Contractor license held by one or more employees	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Other Explain: _____ _____	<input type="checkbox"/>	<input type="checkbox"/>

Note: Information on plants that require less irrigation (Florida-Friendly Landscaping™ and waterwise) is available on the District's website at www.sjrwmd.com. Follow the link for Water Conservation/Waterwise Landscaping

SECTION III – IRRIGATION SYSTEM MAINTENANCE AND REPAIR

Maintenance and repair of irrigation equipment is a key factor in water conservation. Summarize your maintenance and repair schedule by using the appropriate letter to indicate when each of the following tasks are performed.

(A) weekly
(B) monthly

(C) every time you irrigate
(D) as needed

(E) not feasible
(F) not applicable

Maintenance and Repair	A	B	C	D	E	F
Using a pressure gauge to check system pressures and flow rates for leak and clog detection	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Using gauges to check line pressure to verify consistent PSI (pounds per square inch) between wellhead and most distant nozzles	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Checking rainfall shut-off device(s) regularly to ensure they are working in accordance with the manufacturer's design specifications	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Checking to ensure nozzles are not irrigating impervious areas	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Installing pressure regulating nozzles where needed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Repairing leaks and clogs, and repairing worn or malfunctioning nozzles	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Checking float-controls and filters on irrigation ponds	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other maintenance Explain: _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SECTION IV – EMPLOYEE AWARENESS / EDUCATION PROGRAM

1. The water conservation plan must contain an employee awareness and player education program. What employee awareness or education programs have you implemented or are proposing to implement? Mark all that apply.

Employee Awareness / Educational Program		Current	Proposed
<input type="checkbox"/>	Use paycheck stuffers to provide water conservation tips and information.	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Use special mailings, memos or email to provide water conservation tips and information to employees or customers.	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Publish and distribute water conservation tips through company newsletters or public bulletin boards.	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Write new or revised employee operating guides and manuals that describe changes and steps to implement water conservation activities.	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Conduct public tours of your facilities	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Provide training for appropriate facilities and maintenance staff	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Seek employee input for water conservation using contests or reward programs	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Install signs in clubhouse and restrooms encouraging water conservation	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Appoint an employee water conservation coordinator to design and implement your internal water conservation plan	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Water conservation and irrigation maintenance strategies are incorporated into employee performance standards	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Conduct other employee awareness and education activities Describe: _____ _____	<input type="checkbox"/>	<input type="checkbox"/>

SECTION V – PLAN IMPLEMENTATION SCHEDULE SUMMARY

For each proposed water conservation practice listed in Sections I, II and IV, please indicate an expected date of implementation. Please note that water conservation activities must continue for the duration of the permit.

Proposed Water Conservation Practice or Program	Expected Date of Implementation

Please keep a copy of this plan for your records, because the permit, if issued, will reference this plan as part of the permit conditions.