San Francisco Water Power Sewer
Services of the San Francisco Public Utilities Commission

Water Efficient Irrigation Ordinance

Tier 2 Landscape Documentation Package

Project Information		
Applicant Name:	Phone:	Case ID (by SFPUC staff):
Mailing Address:		Email:
Landscape Project Site Address:		
Have you previously submitted a Tier 1 or 2 application for this project? ☐ Yes ☐ No		SFPUC Account #:

Designee and/or Landscape Professional Information	
Designee Name (if different from applicant):	Phone Number:
Mailing Address:	Email:
Landscape Professional Name:	
Company:	Phone Number:
Mailing Address:	Email:
License or Certificate Name and Number:	Expiration Date:

Project Summary	
Total Landscape Area (square feet):	Turf Area (square feet):
Special Landscape Area (square feet):	Water Feature Surface Area (square feet):
Maximum Applied Water Allowance (gallons per year):	0

Property Owner/Designee

By typing or signing my name below I certify that the information provided in this application and all additional documentation is, to the best of my knowledge, accurate and complete. I understand that any changes to the planned project will require an additional application. Additionally, I understand in order to proceed with my Tier 2 project I must receive approval of this form and all additional documentation from the SFPUC. I agree to stay within the water budget (Maximum Applied Water Allowance) calculated above when irrigating this project landscape.

_____ _____

Property Owner or Authorized Designee's Signature Date

Provide the following to complete your Tier 2 Landscape Documentation Package:

- ☐ Plant List
- ☐ Water Efficient Landscape Worksheets
- ☐ Grading Plan
- ☐ Landscape Design Plans
- ☐ Irrigation Design Plans
- ☐ Soil Management Report

Tier 2 WATER EFFICIENT LANDSCAPE WORKSHEETS

Use the following guidelines to fill out Section A: Hydrozone Information Table:

(1) The plant factor used shall be from the San Francisco Plant Water Use List, or other sources allowed by law.

(2) Cool season turf shall use a plant factor of 0.9 and warm season turf shall use a plant factor of 0.7.

(3) All water feature surface area shall be included in the high water use hydrozone and temporarily irrigated areas shall be included in the low water use hydrozone.

(4) Individual hydrozones that mix plants of moderate and low water use shall use the higher water using plant factor.

SECTION A: HYDROZONE INFORMATION TABLE

Please complete the hydrozone table below for each hydrozone in landscape. If you have more than 15 hydrozones, please attach an additional page with your application with complete hydrozone information and a manual calculation of your project's Estimated Total Water Use (ETWU). **Do not include Special Landscape Area as a hydrozone - doing so will prevent a correct calculation of your ETWU.**

Zone or Valve No.	Hydrozone Water Use Ranking[1]	Irrigation Method[2]	Plant Factor (PF)[3]	Hydrozone Area (HA) in ft^2	Plant Factor (PF) X Hydrozone Area (HA)
e.g. #1	Low Water Use (LW)	Drip	0.2	700	140
					0
					0
					0
					0
					0
					0
					0
					0
					0
					0
					0
					0
					0
					0
			Totals:	0	0

[1] ***Hydrozone***
HW = High Water Use Plants
MW = Moderate Water Use Plants
LW = Low Water Use Plants
VLW = Very Low Water Use Plants

[2] ***Irrigation Method -*** *Micro-spray, Spray, Rotor, Bubbler, Drip, or Other*

[3] ***Plant Factor -*** *Plant Factors can be found in WUCOLS. See our Definitions Page.*

SECTION B: WATER BUDGET CALCULATIONS

Section B2: Estimated Total Water Use (ETWU)

The Estimated Total Water Use (ETWU) of your project shall not exceed the Maximum Applied Water Allowance. The project's ETWU has been calculated based on the information you have provided in Section A: Hydrozone Information Table. If you have more than 15 hydrozones, please attach an additional page with your application with complete hydrozone information and a manual calculation of your project's ETWU. To find the ETWU for your project, use the following formula:

$$ETWU = (35.1)(0.62)\left(\frac{(PF\ x\ HA)}{0.71} + SLA\right)$$

ETWU = Estimated total water use per year (gallons per year)
35.1 = The Reference Evapotranspiration (ETo) for San Francisco (inches per year)
PF = Plant Factor from WUCOLS (see Definitions)
HA = Hydrozone Area [high, medium, and low water use areas] (square feet)
(PF X HA) = The sum of the Plant Factor multiplied by the Hydrozone Area for all hydrozones. This can be found at the bottom of your hydrozone table in Section A.
SLA = Special Landscape Area (square feet)
0.62 = Conversion Factor (to gallons per square foot)
0.71 = Minimum Irrigation Efficiency (IE)

Estimated Total Water Use = **0** **gallons per year**

If you feel this does not reflect the parameters of your project, please explain in the box below. If you have additional questions about calculating your Estimated Total Water Use, see our Tier 2 Sample Submittal Package.

SECTION B: WATER BUDGET CALCULATIONS

Section B1: Maximum Applied Water Allowance (MAWA)
Your project's Maximum Applied Water Allowance, or water budget, has been calculated based on the information you have entered above using this equation:

MAWA = (35.1) (0.62) [(0.7 x LA) + (0.3 x SLA)]

MAWA = Maximum Applied Water Allowance (gallons per year)
35.1 = The Reference Evapotranspiration (ETo) for San Francisco (inches per year)
0.7 = ET Adjustment Factor (ETAF)
LA = Landscaped Area includes Special Landscape Area (square feet)
0.62 = Conversion factor (to gallons per square foot)
SLA = Portion of the landscape area identified as Special Landscape Area (square feet)
0.3 = the additional ET Adjustment Factor for Special Landscape Area (1.0 - 0.7 = 0.3)

Maximum Applied Water Allowance = **0** **gallons per year**

If you feel this does not reflect the parameters of your project, please explain in the box below. If you have additional questions about calculating your Maximum Applied Water Allowance, see our Tier 2 Sample Submittal Package.

Thank you for completing your Tier 2 Water Efficient Landscape Worksheet!

Please remember your Landscape Documentation Package **is not complete** until all of the necessary attachments have been received (see bottom of page 1). After you submit your application to the SFPUC for review and approval and the irrigation and landscape is installed, a Certificate of Completion is required to verify compliance with the ordinance.

If you have any questions regarding your submission, please contact the SFPUC Water Conservation Section at landscape@sfwater.org or call (415) 551-4730.