San Francisco Water Efficient Irrigation Ordinance

Tier 1 Landscape Application

Return Application To:

SFPUC
Water Conservation
1145 Market St, 4th Fl
San Francisco, CA
94103

Applicant Name: Eric Appleton	Phone: (415) 555-3360	Case ID (by SFPUC staff):	
Mailing Address: 2090 Rutland Way, San Francisco, CA 94139		Email Address: e.appleton@yahoo.com	
Landscape Professional (if applicable):	Phone:	Company:	
Mailing Address:		Email Address:	
Landscape Project Site Address: 2090 Rutland Way	Block # [1] 7810	Lot # [1] 090	SFPUC Account #: 1504320000
Have you previously submitted a Tier 1 or 2 application for this project? ☐ Yes ☒ No		If Yes, what was the Case ID Number?	

Landscape Areas	Square Feet	Notes
Total Landscape Area (LA)[1]	*1,850*	If the total modified landscape area exceeds 2,500 square feet, or if more than 25 percent of the total modified landscape area is turf, then the projects falls under **Tier 2** requirements. For more information about **Tier 2** requirements, please visit www.sfwater.org/landscape or call (415) 551-4730.
Turf Area[2]	*250*	
Special Landscape Area (SLA)[3]	*50*	Description: e.g. Edible garden
Water Feature Surface Area[4]		Description: e.g. Artificial pond
MAWA Calculation[5]	28,506 gallons per year	Maximum Applied Water Allowance MAWA = (35.1) (0.62) [(0.7 x LA) + (0.3 x SLA)]

Landscape Parameter	Requirements	Project Compliance
Turf	Turf area in the new or modified area will *not* exceed 25% of the landscape area. Landscape projects exceeding the 25% turf limit shall be considered a Tier 2 project and must meet all Tier 2 requirements.	☒ Yes
	Turf areas will not be less than eight (8) feet wide.	☒ Yes
	Turf will not be planted on slopes exceeding 25%.	☒ Yes
Non-Turf	At least 75% of the landscape area will consist of low water use plants or climate appropriate plants.[7]	☒ Yes
Hydrozones	Plants with similar water needs will be grouped within hydrozones. A hydrozone is the area controlled by a single irrigation valve.	☒ Yes
	Sprinkler heads and other water emitting devices will be selected based on the water needs for the plant type within a hydrozone.	☒ Yes
	Where feasible, trees will be placed on separate irrigation valves from shrubs, groundcovers, and turf.	☒ Yes
Irrigation System	All irrigation controllers will be automatic and utilize either evapotranspiration or soil moisture sensor data.	☒ Yes
	All irrigation controllers will be equipped with rain sensors which stop or alter irrigation operation during unfavorable weather conditions.	☒ Yes
	The irrigation system to be used is designed to prevent drainage from low elevation sprinkler heads, runoff, and overspray.	☒ Yes
	Only turf areas will be irrigated with overhead spray irrigation.[8]	☒ Yes

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Irrigation Schedule	Overhead spray irrigation will be scheduled between 8:00 p.m. and 10:00 a.m. unless weather conditions prevent it.	☒ Yes
Mulch	A minimum two inch (2″) layer of mulch will be applied on all exposed soil surfaces of planting areas.	☒ Yes
	Stabilizing mulching products will be used on slopes.	☒ Yes
Plant List	A completed Tier 1 Plant List is submitted with this checklist.	☒ Yes

By typing or signing my name below I certify that the information provided in this application 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 I project, I must receive approval of this form from the SFPUC. I agree to stay within the water budget (Maximum Applied Water Allowance) calculated above when irrigating this landscape.

Eric Appleton — 1/3/2010

Signature of property owner or authorized representative — Date

Select Definitions

[1] **Block and Lot** numbers can be found online at http://gispub02.sfgov.org/website/sfparcel/INDEX.htm or on your property tax bill.

[2] **Landscape Area (LA)** is all the planting areas, turf areas, and water features in a landscape design plan subject to the Maximum Applied Water Allowance calculation, including any adjacent planted areas in the public right-of-way for which the property owner is responsible. The landscape area does not include footprints of buildings or structures unless the footprints include planted areas such as green roofs. The landscape area also does not include sidewalks, driveways, parking lots, decks, patios, gravel or stone walks, other pervious or non-pervious hardscapes, and other non-irrigated areas designated for non-development such as open spaces and existing native vegetation.

[3] **Turf** means a ground cover surface of mowed grass such as Annual bluegrass, Kentucky bluegrass, Perennial ryegrass, Red fescue, Tall fescue, Bermudagrass, Kikuyugrass, Seashore Paspalum, St. Augustinegrass, Zoysiagrass, and Buffalo grass.

[4] **Special Landscape Area (SLA)** means an area of the landscape dedicated solely to edible plants, areas irrigated with only gray water or harvested rain water, water features using only harvested rain water, and areas dedicated to active play such as parks, sports fields, golf courses, and where turf provides a playing surface.

[5] **Water features** include artificial ponds, lakes, waterfalls, and streams, and fountains, spas, and swimming pools. The surface area of water features is included in the high water use hydrozone of the landscape area. Constructed wetlands used for on-site wastewater treatment or stormwater best management practices that are not irrigated and used solely for water treatment or stormwater retention are not water features and, therefore, are not subject to the water budget calculation.

[6] **Maximum Applied Water Allowance (MAWA)** is a water budget and is the maximum limit of gallons of water per year that may be lawfully applied through the irrigation system. The MAWA for an irrigation system can be calculated using the following equation:

MAWA = (35.1) (0.62) [(0.7 x Landscape Area in Square Feet) + (0.3 x Special Landscape Area in Square Feet)]

35.1 = Reference Evapotranspiration for San Francisco (inches per year)
0.62 = Conversion Factor (to gallons)
0.7 = ET Adjustment Factor (ETAF)
LA = Landscape Area including SLA
0.3 = Additional Water Allowance for SLA
SLA = Special Landscape Area

[7] **Low water use plants** or **climate appropriate plants** are plants, shrubs, groundcovers or tree species that, after a 3-year establishment period, will survive in the planting location and are irrigated as a low water use hydrozone. For a list of plants and their water use ranking, go to www.sfwater.org/landscape.

[8] **Low overhead spray irrigation** includes irrigation systems that deliver water through the air such as spray heads and rotors.

SFPUC Staff Evaluation	**Staff Comments:**
☐ Approved	
☐ Not Approved	Signature — Date

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Tier 1 Plant List

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#	Hydrozone Water Use Ranking[1]	Plants in the Hydrozone [2]	Hydrozone Area (square feet)	Percentage of total landscape Area (%)
e.g.	*Low Water Use Plants (LW)*	*Lemon verbena, coyote brush, natal plum, sun rose, evergreen euonymus, grassy bells*	*750*	*75%*
1	Very Low Water Use (VLW)	Desert broom, smoke tree, California buttercup, California lilac, mission manzanita,	500	27%
2	Low Water Use (LW)	Italian jasmine, coffeeberry, blue sage, bougainvillea, trumpet creeper, flax	900	49%
3	Moderate Water Use (MW)	Tree dahlia, dichondra, California sycamore, desert honeysuckle	150	8%
4	High Water Use (HW)	Edible Garden: beans, potatoes, squash, lettuce and other seasonal varieties	50	3%
5	High Water Use (HW)	Turf	250	14%
6				
7				
8				
9				
10				

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If you need more space, please attach an additional page.

[1] **Hydrozone Water Use Ranking:**
Hydrozone is defined as a portion of the landscape area having plants with similar water needs. Hydrozones shall be labeled as below:

- HW = High Water Use Plants (Plant Factors of 0.7-1.0)
- MW = Moderate Water Use Plants (Plant Factors of 0.4-0.6)
- LW = Low Water Use Plants (Plant Factors of 0.1-0.3)
- VLW = Very Low Water Use Plants (Plant Factors of 0.0-0.1)

[2] **Plants in the Hydrozone:** Each plant in a hydrozone area must have a plant factor within the range of the water use ranking of the hydrozone. Water use rankings can be found in the San Francisco Plant Water Use List, available online at www.sfwater.org/landscape. If your desired plant species is not found on the list, the SFPUC will accept water use rankings established by the Sunset Western Garden Book published by Oxmoor House, 8th or subsequent editions. If the water use ranking of a plant species is in question, please indicate the plant species name and attach an explanation of the special circumstances.