

CITY OF SARATOGA

WATER-EFFICIENT LANDSCAPE WORKSHEET

Site Address: _____ Name: _____ Phone: _____ Email: _____

Required Submittals (check if completed)

- Water-Efficient Landscape Worksheet (this form)
- Landscape and Irrigation Plans
- Water Budget (NOT needed if plant restriction option is chosen)
- Certification of Completion (prior to final building permit issuance)

<p>Total Landscape Area: _____sf</p> <p>Turf Area: _____sf</p> <p>Non-Turf Plant Area: _____sf</p> <p>Special Landscape Area: _____sf</p> <p>Water Feature / Wet Surface: _____sf (fountain, waterfall feature, pool, spa, ...)</p>	<p><i>Landscape area:</i> All planting areas, turf, and water features in a landscape installation. Does not include building footprints, sidewalks, driveways, parking lots, decks, patios, gravel or stone walks, other hardscapes, other non-irrigated areas designated for non-development (e.g., open spaces, existing wildland).</p> <p><i>Turf area:</i> Ground cover surface consisting of non-native grass species that is customarily mowed.</p> <p><i>Special landscape area:</i> An area of the landscape dedicated solely to edible plants, areas irrigated with recycled water, and/or water features using recycled water.</p>
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Landscape Type	Design Measures	Project Compliance
Plant Water Use	At least 80% of non-turf areas are native or low water use plants, as classified by the Department of Water Resources Water Use Classifications of Landscape Species (WUCLOS).	<input type="checkbox"/> Yes <input type="checkbox"/> No [water budget required]
Turf	Total turf area does not exceed 25% of landscape area, or 1,250 sf, whichever is less.	<input type="checkbox"/> Yes <input type="checkbox"/> No [water budget required]
Hydrozones	Plants with similar water needs are grouped within hydrozones AND irrigation for each hydrozone are controlled by a separate valve.	<input type="checkbox"/> Yes <input type="checkbox"/> No [water budget required]
Irrigation System	Systems are designed and maintained to minimize water waste (runoff, overspray, etc) AND low-volume irrigation is utilized in non-turf areas AND overhead (spray) irrigation only occurs between 8:00pm and 10:00am.	<input type="checkbox"/> Yes <input type="checkbox"/> No [water budget required]
Soil	A minimum of 8 inches of non-compacted topsoil is in planted areas.	<input type="checkbox"/> Yes <input type="checkbox"/> No [water budget required]
	Soil amendments, such as compost or fertilizer, is as needed per project site soil conditions and based on what is appropriate for selected plants.	<input type="checkbox"/> Yes <input type="checkbox"/> No [Provide written explanation]
Mulch	A minimum 2-inch layer of mulch is applied on all exposed soil surfaces of plant areas, except in areas of direct seeding application (e.g. hydro-seed).	<input type="checkbox"/> Yes <input type="checkbox"/> No [Provide written explanation]

I certify that the information provided on this checklist is correct, and I understand that any changes to the project or new information in conflict with the answers on this form will necessitate a new Worksheet.

X _____
Signature of Project Applicant or Authorized Representative

Date

Hydrozone: A portion of the landscaped area having plants with similar water needs. A hydrozone may be irrigated or non- irrigated.

Low water use plant: Species classified as “very low water use” and “low water use” by the Department of Water Resources Water Use Classifications of Landscape Species (WUCLOS), having a regionally adjusted plant factor of 0.0 through 0.3, are considered low water use plants. A low water use plant is compatible with local climate and soil conditions and does not require regular supplemental irrigation to sustain the plant after it has become established.

Low-volume irrigation: The application of irrigation water at low pressure through a system of tubing or lateral lines and low-volume emitters such as drip, drip lines, and bubblers. Low volume irrigation systems are specifically designed to apply small volumes of water slowly at or near the root zone of plants.

Native plant: For the purpose of City Code Article 15-47, a native plant is a plant indigenous to the coastal ranges of Central and Northern California, and more specifically plants that are suited to the ecology of the present or historic natural community of Saratoga.

Water feature: A landscape design element where open water performs an aesthetic or recreational function. Water features include ponds, fountains, waterfalls, artificial streams, and residential spas and swimming pools.

Wet surface area: The surface area of that portion of a water feature that functions to contain water, such as the water surface of a swimming pool, spa, or garden pond. For a fountain or other feature with flowing water, wet surface area shall be measured as a two dimensional plane bounded by the perimeter of the area where water has been designed to flow.

Maximum Applied Water Allowance (MAWA) (gallons per year):

<p>Standard MAWA = (ET_o) (0.62) [(0.7 x LA) + (0.3 x SLA)]</p> <p>Where:</p> <p>ET_o = Reference Evapotranspiration (inches per year)</p> <p>0.62 = Conversion Factor (acre-inches to gallons)</p> <p>0.7 = Reference Evapotranspiration Adjustment Factor (ETAF)</p> <p>LA = Landscape Area including SLA (square feet)</p> <p>0.3 = Additional Water Allowance for SLA</p> <p>SLA = Special Landscape Area (square feet)</p>
<p>Alternative MAWA = (ET_o - Eppt) (0.62) [(0.7 x LA) + (0.3 x SLA)]</p> <p>for projects using <i>effective precipitation</i> for tracking water use where ETAF = 0.3</p>
<p>Audited MAWA = (ET_o) (0.62) (LA) (0.8)</p> <p>for <i>audited existing landscapes (over 1 acre)</i> with dedicated irrigation meters where ETAF = 0.8</p>

Estimated Total Water Use per year (ETWU) (gallons):

$ETWU = (ET_o)(0.62) \left(\frac{PF \times HA}{IE} + SLA \right)$ <p>Where:</p> <p>ET_o = Reference Evapotranspiration (inches)</p> <p>PF = Plant Factor from WUCOLS</p> <p>HA = Hydrozone Area [high, medium, and low water use areas](square feet)</p> <p>SLA = Special Landscape Area (square feet)</p> <p>0.62 = Conversion Factor</p> <p>IE = Irrigation Efficiency (minimum 0.70)</p>
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