## WATER EFFICIENT LANDSCAPE WORKSHEET

This worksheet is filled out by the project applicant and it is a required element of the Landscape Documentation Package.

## HYDROZONE INFORMATION TABLE

Please complete the hydrozone table(s) for each hydrozone. Use as many tables as necessary to provide the square footage of landscape area per hydrozone.

| Controller \# | Hydrozone* | Zone or Valve | Irrigation Method** | Plant Type/Factor*** (PF) | Hydrozone Area (Sq. Ft.) | \% of Total Landscaped Area |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
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|  |  |  |  |  |  |  |
|  |  | Total |  |  |  | 100\% |

* Hydrozone

VLW - Very Low Water Use Plants
LW - Low Water Use Plants
MW - Moderate Water Use Plants
HW - High Water Use Plants
**/rrigation Method
MS = Micro-spray
S = Spray
$R=$ Rotor
RO-Rotator
$B=$ Bubbler
$D=$ Drip
$\mathrm{O}=\mathrm{Other}$
***Plant Factor from WUCOLS III or list as water feature as appropriate

## MAXIMUM APPLIED WATER ALLOWANCE

A landscape project subject to the Water Efficient Landscape Ordinance shall include the MAWA for the plans, including the calculations used to determine the MAWA. A landscape project shall not exceed the MAWA. The MAWA for a landscape project shall be determined by the following equations:

| Residential: | $M A W A=(E T o)(0.62)[(0.55 \times L A)+(0.45 \times S L A)]$ |  |
| :--- | :--- | :--- |
| Commercial/Industrial: |  | MAWA $=(E T o)(0.62)[(0.45 \times L A)+(0.55 \times$ SLA $)]$ |

The abbreviations used in the equation have the following meanings:
MAWA Maximum Applied Water Allowance in gallons per year.
ETo Evapotranspiration in inches per year.
0.62 Conversion factor to gallons per square foot.
0.55/.045 (x LA) ET adjustment factor (ETAF) for plant factors and irrigation efficiency.

LA Landscaped area includes special landscaped area in square feet
0.45/0.55 (x SLA) The additional ET adjustment factor for a special landscaped area (eg, 1.0-0.55 $=0.45$ ).
SLA Special landscaped area in square feet.

## Show Calculation:

MAXIMUM APPLIED WATER ALLOWANCE = $\qquad$ GALLONS PER YEAR

## ESTIMATED TOTAL WATER USE

A landscape project subject to the Water Efficient Landscape Ordinance shall include the ETWU for the plans, including the calculations used to determine the ETWU. The ETWU for a proposed project shall not exceed the MAWA. The following equation shall be used to calculate the ETWU for each landscaped area and the entire project:

$$
E T W U=(E T o)(0.62)\left(\frac{P F x H A}{I E}+S L A\right)
$$

The abbreviations used in the equation have the following meanings:

| ETWU | Estimated total water use in gallons per year. |
| :---: | :--- |
| ETo | Evapotranspiration in inches per year. |
| 0.62 | Conversion factor to gallons per square foot. |
| PF | Plant factor from WUCOLS III |
| HA | Hydrozone Area in square feet. Each HA shall be classified based upon the <br> data included in the landscape and irrigation plan as high, moderate, low, or |
|  | very low water use. |
| IE | Irrigation Efficiency of the irrigation method used in the hydrozone. |
| SLA | Special landscaped area in square feet. |

Please use the following "Hydrozone Table for Calculating ETWU" form to document the calculation.

## Hydrozone Table for Calculating ETWU

Please complete the hydrozone table(s). Use as many tables as necessary.

| CITY OF CARLSBAD ESTIMATED TOTAL WATER USE (ETWU) |  |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |

## ETo*

West of $\mathrm{I}-5=40.0$
East of $\mathrm{I}-5$ and West of El Camino Real $=44.0$
East of El Camino Real = 47.0
Applicant may provide a different ETo if supported by documentation subject to approval by the City Planning Division

[^0]***|E
Micro-spray $=.80$
Spray $=.55$
Rotor $=.70$
Bubbler $=.75$
Drip $=.80$
Applicant may provide a different IE if supported by documentation subject to approval by the City
Planning Division (Turf and Landscape Irrigation Best Management Practices, April 2005)


[^0]:    ** Plant Factor \& Water Use
    0.1 = VLW - Very Low Water Use Plants
    $0.3=L W$ - Low Water Use Plants
    0.5 = MW - Moderate Water Use Plants
    0.8 = HW - High Water Use Plants

