# PROJECT INFORMATION SHEET AND APPLICATION FOR MODEL WATER EFFICIENT LANDSCAPE ORDINANCE COMPLIANCE

Prior to receiving a building or grading permit, applicant must submit a completed Landscape Project Application (LPA) for all:

Developer projects of 2,500 square feet or greater; and
Owner-directed projects of 5,000 square feet or greater

Application Fee: $3,000 deposit

Application: Submit one (1) copy of the completed application (Attachment A) to the Community Development Department, Planning Division, at 150 City Park Way, Brentwood, CA 94513. Use the application that is attached to this information sheet.

Required Documentation: Submit four (4) sets of the following LPA documentation as proof of compliance with the Model Water Efficiency Landscape Ordinance:

1. Certification of Compliance for Landscape Design (Attachment B)
2. Certification of Compliance for Landscape Installation (Attachment C)
3. Certification of Compliance for Landscape Water Audit (Attachment D)
4. Certification of Compliance for Landscape Maintenance (Attachment E)
5. Water Allowance Worksheets, if applicable (Attachment F)
6. Landscape and Maintenance Schedule (Applicant provided)
7. Landscape Plans (Applicant provided)

Attachment A

# LANDSCAPE PROJECT APPLICATION

Complete all sections of this form. If you believe that an item does not apply to your project, mark it "N/A." Do not leave any item blank.

## Application Information

Applicant Name: _____

Address: _____

Phone Number: _____ Fax Number: _____

E-mail: _____

Property Owner Name: _____

Address: _____

Phone Number: _____ Fax Number: _____

E-mail: _____

## Project Description

Project Name: _____

Project Address and/or lot numbers: _____

Assessor's Parcel Number(s): _____

Project Type _____

Water Supply Type: _____

Is recycled water available? ☐ Yes ☐ No (check one)

All applications to use recycled water must be approved by Public Works/Operations. A recycled water use permit issued by the City of Brentwood Wastewater Treatment Plant is required prior to the start of water service.

Total Landscape Area: _____ square feet

Total Rehabilitated Landscape Area: _____ square feet

## Signature

I certify under penalty of perjury that I am the (check one)

☐ Legal owner (all individuals must sign as their names appear on the deed to the land)

**OR**

☐ Owner's legal agent and that the foregoing is true and correct. (Please submit an authorization letter from legal owner.)

| Signature | Printed Name | Date |
|---|---|---|
| Signature | Printed Name | Date |

Attachment B

## Certificate of Compliance
## Landscape Design

Project Name: _____

Project Address/Parcel No: _____

Applicant Name: _____

Applicant Address: _____

### Project Area Measurements

Total turf area: _____ square feet

Total non-turf landscape area: _____ square feet

Total water feature area: _____ square feet

☐ Landscape design has zero (0) square feet of turf that is not specified as "special landscape area" and has water feature(s) with total surface area >100 square feet.

**OR**

☐ Landscape design includes: 1) turf that is not specified as "special landscape area"; or 2) water feature(s) with > 100 square feet of total surface area. If this box is checked, applicant must prepare a site-specific water budget to demonstrate that the landscape is designed to use less than the Maximum Applied Water Allowance. Complete Water Allowance Work Sheets (Attachment F) of the Regional Landscape Water Conservation Ordinance.

### Landscape Design Requirements:

☐ Design incorporates most recent acceptable best management practices for water-efficient landscape design

☐ Submit landscape plans, including planting, irrigation, and installation details

☐ Plants selected are well suited to the local climate and soil conditions

☐ Plants are spaced appropriately based on their expected mature size

☐ Overhead irrigation not used if irrigation results in overspray

☐ Plants are spaced so at mature size they do not block sprinklers

☐ Distinct hydrozones are irrigated separately by one or more irrigation valves

☐ No turf is specified in medians, areas narrower than eight feet, or on slopes greater than 15%

- ☐ Plan specifies smart irrigation controller(s) utilizing ET or soil moisture sensors
- ☐ Plan specifies separate water meter(s) for landscape irrigation per the retail water supplier regulations
- ☐ Recycled water is used if available

  Recycle water use permit number: _____
- ☐ Technology and practices are incorporated to prevent run-off, low head drainage and overspray
- ☐ No overhead irrigation is specified within 12 inches of any non-permeable surface, except as provided in Section 17.630.010.C.2.e of the Brentwood Municipal Code
- ☐ Sprinkler stations have matched precipitation rates for each irrigation zone with a maximum precipitation rate of 1.2 inches per hour (“/hr) or 0.7”/hr for all slopes of 25% or greater
- ☐ Irrigation controls are specified to maintain dynamic water pressure at sprinkler heads and other emission devices within manufacturer’s specifications
- ☐ No overhead irrigation is specified in areas less than eight feet wide in any direction
- ☐ Manual shutoff valves are specified at each point of connection
- ☐ Irrigation plan includes or specifies that controller map(s) and programming table(s) shall be placed in all irrigation controller cabinets
- ☐ Plan specifies a separate irrigation valve and hydrozone for the top of a slope and bottom of a slope
- ☐ A re-circulation system has been specified for all water features
- ☐ Fountain(s) is designed and nozzles are specified so that no wind drift or overspray will occur
- ☐ Design complies with Storm Water Control Plan requirements
  - ☐ Design minimizes any soil erosion from construction activities and maintains or improves the landscape soil’s infiltration rate
  - ☐ Design to avoid drainage onto non-permeable hardscapes within the project and prevent runoff of irrigation and rainfall outside property lines
  - ☐ Only specify soil amendments that are appropriate for the selected plants
  - ☐ Plan specifies a minimum of 2 inches of mulch specified for all exposed soil surfaces in non-turf planting areas

**I/we certify that the landscape plans for the above-listed project comply with the Model Water Efficient Landscape Ordinance standards and Landscape Plan Requirements of the City of Brentwood.**

Designer’s Name _____ Company Name _____ Date _____

Address _____ Telephone Number _____

E-mail Address _____ Professional License Number _____

Professional Stamp

Attachment C

## Certificate of Compliance
## Landscape Installation

Project Name: _____

Project Address/Parcel No: _____

Applicant Name: _____

Applicant Address: _____

- ☐ Installed Project Area Measurements match those of the Landscape Design Plans
- ☐ Plant material is the same as that specified in the plans and any substitutes are determined to be equivalent or less in water need, per *Water Use Classification of Landscape Species* (WUCOLS)
- ☐ Installation incorporates most recent acceptable best management practices for water-efficient landscape design
- ☐ Any plant substitutes used are well suited to the local climate and soil conditions
- ☐ All plants are located per the design plans
- ☐ Irrigation hydrozones are the same as plans and any field-adjusted irrigation zones were installed so that distinct hydrozones are irrigated separately by one or more irrigation valves
- ☐ No turf is installed in medians, areas narrower than eight feet, or on slopes greater than 15%
- ☐ All irrigation equipment is the same as specified, and any substitutes are equivalent
- ☐ Automatic irrigation controller(s) installed utilize ET or soil moisture sensors
- ☐ Point of Connection (POC) is the same as specified in plans
- ☐ System has been installed and tested to prevent run-off, low head drainage, and overspray
- ☐ No overhead irrigation is installed within 12 inches of any non-permeable surface
- ☐ Sprinkler stations have matched precipitation rates for each irrigation zone, with a maximum precipitation rate of 1.2 inches per hour (“/hr) or 0.7”/hr for all slopes of 25% or greater
- ☐ No overhead irrigation is installed in areas less than eight feet wide in any direction
- ☐ Manual shutoff valves are specified at each POC
- ☐ A controller map and programming table were placed in all irrigation controller cabinets
- ☐ Separate irrigation valves were installed and hydrozones created for the top of a slope and bottom of a slope

- ☐ All water features have functioning re-circulating water systems
- ☐ Fountain(s) and their nozzles are installed so that no wind drift or overspray will occur
- ☐ Installation complies with Storm Water Control Plan requirements
- ☐ Installation work minimized any soil erosion and maintained or improved the landscape soil's infiltration rate
- ☐ Installation avoids drainage onto non-permeable hardscapes within the project and prevents run-off of irrigation and rainfall outside property lines
- ☐ Only specified soil amendments that are appropriate for the selected plants were used
- ☐ A minimum of 2 inches of mulch was applied to all exposed soil surfaces in non-turf planting areas

**I/we certify that the landscape has been installed as specified in the landscape plans for the above-listed project to comply with the Model Water Efficient Landscape Ordinance standards and Landscape Plan Requirements of the City of Brentwood.**

Installer's Name _____ Company Name _____ Date _____

Address _____ Telephone Number _____

E-mail Address _____ Professional License Number _____

Professional Stamp

Attachment D

## Certificate of Compliance
## Landscape Water Audit

Project Name: _____

Project Address/Parcel No: _____

Applicant Name: _____

Applicant Address: _____

- ☐ Installed Project Areas match those of the Landscape Design Plans
- ☐ Plant material is the same as that specified on the plans, with any plant material substitutes being equivalent or less in water need, per *Water Use Classification of Landscape Species* (WUCOLS)
- ☐ Project has incorporated most recent acceptable best management practices for water-efficient landscape design
- ☐ Plants used are well suited to the local climate and soil conditions
- ☐ Plants are spaced appropriately based on their expected mature size
- ☐ Overhead irrigation was not used where it would result in overspray
- ☐ Plants are spaced so at mature size they do not block sprinklers
- ☐ Distinct hydrozones are irrigated separately by one or more irrigation valves
- ☐ No turf is planted in medians, areas narrower than eight feet, or on slopes greater than 15%
- ☐ Smart irrigation controller(s) utilizing ET or soil moisture sensors are installed
- ☐ Point of Connection (POC) is same as specified in plans
- ☐ Recycled water is used, if available

  Recycled water use permit number: _____
- ☐ Irrigation system has no run-off, low head drainage, and overspray
- ☐ No overhead irrigation is installed within 12 inches of any non-permeable surface
- ☐ Sprinkler stations have matched precipitation rates for each irrigation zone, with a maximum precipitation rate of 1.2 inches per hour (“/hr) or 0.7”/hr for all slopes of 25% or greater
- ☐ Dynamic water pressure at sprinkler heads and other emission devices is within manufacturer’s specifications
- ☐ No overhead irrigation is installed in areas less than eight feet wide in any direction
- ☐ Manual shutoff valves are installed at each POC

- ☐ Controller map(s) and programming table(s) are in all irrigation controller cabinets
- ☐ Separate irrigation valves are installed for the top of a slope and bottom of a slope, and designated as separate hydrozones
- ☐ A re-circulation system has been installed for all water features
- ☐ Fountain(s) and their nozzles have no wind drift or overspray
- ☐ Project complies with Storm Water Control Plan requirements
- ☐ Site's landscape soils infiltration rate is the same as or better than native soil of area
- ☐ Project does not drain onto non-permeable hardscapes within the project, and no run-off of irrigation and rainfall can occur outside property lines
- ☐ Only specified soil amendments that are appropriate for the selected plants were used on project
- ☐ A minimum of 2 inches of mulch is installed for all exposed soil surfaces in non-turf planting areas

Auditor's Name _____ Company Name _____ Date _____

Address _____ Telephone Number _____

E-mail Address _____ Certification Number _____

Professional Stamp

Attachment E

## Certificate of Compliance
## Landscape Maintenance

Project Name: _____

Project Address/Parcel No: _____

Applicant Name: _____

Applicant Address: _____

- ☐ Changes in total landscape area shall be reported to the local water utility
- ☐ Maintenance practices incorporate most recent acceptable best management practices for water-efficient landscape maintenance
- ☐ Plants selected for replanting are well suited to the local climate and soil conditions
- ☐ Plants for replanting are spaced appropriately based on their expected mature size
- ☐ Any changes to overhead irrigation do not result in overspray
- ☐ Replacement plants are spaced so at mature size they do not block sprinklers
- ☐ Changes to irrigation system or plant material shall maintain distinct hydrozones that are irrigated separately by one or more irrigation valves
- ☐ Medians, areas narrower than eight feet, or on slopes greater than 15%, shall not be replanted in turf
- ☐ Smart irrigation controller(s) utilizing ET or soil moisture sensors are in the ET or sensor mode
- ☐ Any irrigation change shall not be connected to the domestic meter
- ☐ Maintenance practices are incorporated to prevent run-off, low head drainage, and overspray
- ☐ No overhead irrigation can be moved within 12 inches of any non-permeable surface
- ☐ Sprinkler stations have matched precipitation rates for each irrigation zone with a maximum precipitation rate of 1.2 inches per hour (“/hr) or 0.7”/hr for all slopes of 25% or greater
- ☐ Irrigation controls are used to maintain dynamic water pressure at sprinkler heads and other emission devices within manufacturer’s specifications
- ☐ No overhead irrigation is used in areas less than eight feet wide in any direction
- ☐ Manual shutoff valves are maintained at each point of connection
- ☐ A copy of the controller map(s) and programming table(s) are kept in all irrigation controller cabinets
- ☐ Separate irrigation valves and hydrozones are maintained for the top of a slope and bottom of a slope
- ☐ Changes in total landscape area shall be reported to the local water utility

- ☐ Re-circulation system(s) is maintained for all water features
- ☐ Fountain(s) and their nozzles are maintained so that no wind drift or overspray will occur
- ☐ Maintenance practices comply with Storm Water Control Plan requirements
- ☐ Infiltration rates for site's landscape soils are maintained or improved with site maintenance practices
- ☐ Site is maintained to avoid drainage onto non-permeable hardscapes within the project and prevent run-off of irrigation and rainfall outside property lines
- ☐ Only use soil amendments that are appropriate for any replacement plants
- ☐ Maintain a minimum of 2 inches of mulch for all exposed soil surfaces in non-turf planting areas

**I/we certify that the landscape maintenance for the above-listed project will comply with the Model Water Efficient Landscape Ordinance standards of the City of Brentwood and the Landscape Maintenance Schedule created for this project.**

Auditor's Name _____ Company Name _____ Date _____

Address _____ Telephone Number _____

E-mail Address _____ Professional License Number _____

Professional Stamp

Attachment F

# Water Allowance Worksheets

Water Allowance Work Sheets are used to calculate water use in the form of Maximum Applied Water Allowance (MAWA) and Estimated Total Water Use (ETWU) for the landscape project.

These sheets are required if the project has turf or other high water use plants not qualified as a 'Special Landscape Area' or has water feature(s) with more than one hundred (100) total square feet of surface area. This is referred to as Option B of the Landscape Project Application Requirements of the Regional Landscape Water Conservation Ordinance.

"Special Landscape Area" is defined as an area of the landscape dedicated solely to edible plants, areas irrigated with recycled water, water features using recycled water, and areas dedicated to active play, such as parks, sports fields, and golf courses where turf provides a playing surface.

The ETWU for the project can not exceed the MAWA for the project.

Calculate the MAWA for the project using the below formula and Factors:

$$MAWA = (ETo)\ (0.62)\ [(0.7 \times LA) + (0.3 \times SLA)]$$

Where:

| | | |
|---|---|---|
| MAWA | = | Maximum Applied Water Allowance (gallons per year) |
| ETo | = | Reference Evapotranspiration (inches per year) |
| 0.62 | = | Conversion Factor (to gallons) |
| 0.7 | = | ET Adjustment Factor (ETAF) |
| LA | = | Landscape Area including SLA (square feet) |
| 0.3 | = | Additional Water Allowance Factor for SLA |
| SLA | = | Special Landscape Area (square feet) |

Step 1: Multiple total project landscape area by 0.7, the ET Adjustment Factor

| LA | Multiply | 0.7 | Equals | 0.7 x LA |
|---|---|---|---|---|
| | x | | = | |

Step 2: Multiple total Special Landscape Area by 0.3, the Additional Water Allowance Factor

| SLA | Multiply | 0.3 | Equals | 0.3 x SLA |
|---|---|---|---|---|
| | x | | = | |

Step 3: Add Adjusted LA and adjusted SLA Water Allowances

| 0.7 x LA | Plus | 0.3 x SLA | Equals | 0.7 x LA + 0.3 SLA |
|---|---|---|---|---|
| | + | | = | |

Step 4: Multiple Reference Evapotranspiration by the conversion factor and Total Adjusted Water Allowance

| ETo | Multiply | Conversion factor | Multiply | 0.7 x LA + 0.3 x SLA | Equals | **MAWA** |
|---|---|---|---|---|---|---|
| | x | 0.62 | x | | = | |

Calculate the ETWU for the project using the below formula and Factors. A Hydrozone Table will need to be completed prior to completing the ETWU calculation, to determine the total area by hydrozone type.

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

Where:

| | | |
|---|---|---|
| ETWU | = | Estimated Total Water Use per year (gallons) |
| ETo | = | Reference Evapotranspiration (inches) |
| PF | = | Plant Factor (see Definitions) |
| HA | = | Hydrozone Area [high, medium, low and very low water use areas] (square feet) |
| SLA | = | Special Landscape Area (square feet) |
| 0.62 | = | Conversion Factor |
| 0.71 | = | Irrigation Efficiency |

Step 1: Multiple the Plant Factor by the total area of that plant water need category

| Plant Factor | Multiply | Total Hydrozone Area | Equals | PF x HA |
|---|---|---|---|---|
| High (0.8) | x | | = | |
| Medium (0.5) | x | | = | |
| Low (0.3) | x | | = | |
| Very Low (0.1) | x | | = | |

Step 2: Add up the Total Adjusted Hydrozone Allowances

| High PF x HA | Plus | Medium PF x HA | Plus | Low PF x HA | Plus | Very Low PF x HA | Equals | Total PF x HA |
|---|---|---|---|---|---|---|---|---|
| | + | | + | | + | | = | |

Step 3: Divide the Total Adjusted Hydrozone Allowance by 0.71, minimum Irrigation Efficiency

| Total PF x HA | Divided by | Irrigation Efficiency | Equals | Total PF x HA / 0.71 |
|---|---|---|---|---|
| | / | 0.71 | = | |

Step 4: Add the SLA Area to the total (PF x HA / 0.71)

| Total PF x HA / 0.71 | Plus | Total Special Landscape Area | Equals | Total PF x HA / 0.71 + SLA |
|---|---|---|---|---|
| | + | | = | |

Step 5: Multiply the yearly ETo times the Conversion Factor times the total (PF x HA / 0.71 + SLA)

| Yearly ETo | Multiple | Conversion Factor | Multiple | PF x HA / 0.71 + SLA | Equals | **ETWU** (must be equal to or lower than the MAWA) |
|---|---|---|---|---|---|---|
| | x | 0.62 | x | | = | |

Record Project's square footage, by station number, on the Hydrozone Table, under the correct category. Use WUCOLS to determine the correct hydrozone category for the plants watered by each irrigation valve. Use the highest water needing plant irrigated by a valve to set that valve's water need category.

**Hydrozone Table**

| Station Number | High Water Needs (sq. Ft.) | Medium Water Needs (Sq. Ft.) | Low Water Needs (Sq. Ft.) | Very Low Water Needs (Sq. Ft.) | Special Landscape Area (Sq. Ft.) |
|---|---|---|---|---|---|
| 1 | | | | | |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | |
| 5 | | | | | |
| 6 | | | | | |
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| 21 | | | | | |
| 22 | | | | | |
| 23 | | | | | |
| 24 | | | | | |
| Totals | | | | | |

# Model Water Efficient Landscape Ordinance

## ETo Reference Table

Note: Total Net ETo data to be used in the calculation of the Maximum Applied Water Allowance (MAWA) and Estimated Total Water USE (ETWU) as set forth in the Regional Landscape Water Conservation Ordinance.

| East Contra Costa County | | | |
|---|---|---|---|
| **Month** | **Gross ETo** | **Effective Rain** | **Net ETo** |
| January | 1.147 | 1.22 | **0.069** |
| February | 1.890 | 1.26 | **0.625** |
| March | 3.997 | 0.68 | **3.321** |
| April | 5.204 | 0.20 | **5.013** |
| May | 7.210 | 0.00 | **7.213** |
| June | 8.053 | 0.00 | **8.059** |
| July | 8.349 | 0.00 | **8.350** |
| August | 7.601 | 0.00 | **7.604** |
| September | 5.842 | 0.00 | **5.846** |
| October | 3.892 | 0.17 | **3.718** |
| November | 1.866 | 0.64 | **1.233** |
| December | 1.026 | 1.66 | **0.000** |
| **Total** | **56.077** | **5.818** | **51.051** |

*Based on average CIMIS and effective rainfall for 2002-2009 from CIMIS station 47, Brentwood, CA

# Definitions for Model Water Efficient Landscape

**Applicant** means the individual or entity submitting a Landscape Project Application (LPA) required under Section III, to request a permit, plan check, or design review from the local agency, or requesting new or expanded water service from the water district. A project applicant may be the property owner or his or her designee.

**Applied water** means the portion of water supplied by the irrigation system to the landscape.

**Backflow prevention device** means a safety device used to prevent pollution or contamination of the water supply due to the reverse flow of water from the irrigation system.

**Certified irrigation system auditor** means a person certified by the US Environmental Protection Agency's WaterSense Irrigation Partners Program.

**Conversion factor (0.62)** means the number that converts acre-inches per acre per year to gallons per square foot per year.

**Emission Device** means any device that is contained within an irrigation system that is used to apply water. Common emission devices in an irrigation system include, but are not limited to, spray and rotary sprinkler heads, bubblers, and drip irrigation emitters.

**Estimated Total Water Use (ETWU)** means the estimated total water used for the landscape, as described in the Water Allowance Work Sheet (Attachment F).

**ET adjustment factor (ETAF)**

> Means a factor, that, when applied to reference evapotranspiration, adjusts for plant factors and irrigation efficiency, two major influences upon the amount of water that needs to be applied to the landscape.
>
> When applied to reference evapotranspiration establishes the upper limit (Maximum Allowable Water Allowance) of the amount of water that can be applied through the irrigation system to sustain the landscape. The ETAF shall be 0.7 for all landscape areas except Special Landscape Areas where the ETAF shall be 1.0.

**ETo** stands for Reference Evapotranspiration, and means the water loss from a large field of 4-7 inch-tall, cool-season grass that is not water stressed. Local ETo numbers can be found through the California Irrigation Management Information System (CIMIS).

**Evapotranspiration** means the combination of water transpired from plants and evaporated from the soil and plant surfaces.

**Flow rate** means the rate at which water flows through pipes, valves, and emission devices, measured in gallons per minute, gallons per hour, or cubic feet per second.

**Geometry** means the size, shape, and angles of an area.

**Hardscape** means any durable material (pervious and non-pervious).

**Hydrozone** means a portion of the landscaped area having plants with similar water needs. This ordinance uses the publication *Water Use Classification of Landscape Species* (WUCOLS) to determine a plant's water needs. A hydrozone may be irrigated or non-irrigated.

**Landscape water audit** means an in-depth evaluation of the installed landscape to verify the landscape complies with the Water-Efficient Landscape Standards of the [*insert name of Entity*] Regional Landscape Water Conservation Ordinance, an acceptable evaluation report completes the Certificate of Compliance for a Landscape Water Audit.

**Irrigation efficiency (IE)** means the measurement of the amount of water beneficially used divided by the amount of water applied. Irrigation efficiency is derived from measurements and estimates of irrigation system characteristics and management practices. The irrigation efficiency for purposes of this Ordinance is 71%. Greater irrigation efficiency can be expected from well-designed and well-maintained systems.

**Irrigation survey** means an evaluation of an irrigation system that is less detailed than an irrigation audit. An irrigation survey includes, but is not limited to, inspection, system test, and recommendations to improve performance of the irrigation system.

**Irrigation water use analysis** means an analysis of water use data based on meter readings and billing data.

**Landscape area** means all the planting areas, turf areas, and water features in a landscape design plan subject to the Maximum Applied Water Allowance calculation. The landscape area does not include footprints of buildings or structures, sidewalks, driveways, parking lots, decks, patios, gravel, or stone walks, or other pervious or non-pervious hardscapes, and other non-irrigated areas designated for non-development (e.g., open spaces and existing native vegetation).

**Landscape contractor** means a person licensed by the State of California to construct, maintain, repair, install, or subcontract the development of landscape systems.

**Lateral line** means the water delivery pipeline that supplies water to the emitters or sprinklers from the valve.

**Maximum Applied Water Allowance (MAWA)** means the upper limit of annual applied water for the established landscaped area, as specified in the "Water Allowance Work Sheets" (Attachment F).

**Medians** mean any planting area that separates opposing traffic lane on streets and parking areas in parking lots

**Mulch** means any organic material, such as leaves, bark, straw, or compost; or inorganic mineral materials, such as rocks, gravel, and decomposed granite left loose and applied to the soil surface for the beneficial purposes of reducing evaporation, suppressing weeds, moderating soil temperature, and preventing soil erosion.

**Non-Permeable** means any surface or material that will not allow the passage of water through that surface or material and into the underlying soil at a rate that ensures run-off will not occur.

**Operating pressure** means the pressure at which the parts of an irrigation system are designed by the manufacturer to operate.

**Overhead irrigation** means systems that deliver water through the air (e.g., sprayheads and rotors).

**Overspray** means the irrigation water that is delivered beyond the target area.

**Permit** means an authorizing document issued by local agencies for new construction or rehabilitated landscapes.

**Plant factor** or **plant water use factor** is a factor that, when multiplied by ETo, estimates the amount of water needed by plants. The plant factors for this Ordinance are from the WUCOLS publication.

**Precipitation rate** for this ordinance means the rate of application of water measured in inches per hour.

**Project** means the total area comprising the landscape area, as defined in this Ordinance.

**Rain switch** or **rain sensing shutoff device** means a component that automatically suspends an irrigation event when it rains.

**Recycled Water** means water which, as a result of treatment of municipal wastewater, is suitable for a direct beneficial use or a controlled use that would not otherwise occur and is therefore considered a valuable resource.

**Reference evapotranspiration** or **ETo** means a standard measurement of environmental parameters that affect the water use of plants.

**Rehabilitated landscape** means any re-landscaping project that requires a permit, plan check, or design review, or requires a new or expanded water service application.

**Retail water supplier** means any entity, including a public agency, city, county, district or private water company that provides retail water service.

**Runoff** means water that is not absorbed by the soil or landscape to which it is applied and that flows from the landscape area.

**Smart irrigation controllers** means controllers using weather information or soil moisture readings along with site information to automatically adjust the irrigation schedule on a daily basis.

**Soil moisture sensor** or **soil moisture sensing device** means a device that measures the amount of water in the soil. The device may also suspend or initiate an irrigation event.

**Special Landscape Area (SLA)** means an area of the landscape dedicated solely to edible plants, such as vegetable gardens or orchards, areas irrigated with recycled water, water features using recycled water, cemeteries, and areas dedicated to active play, such as parks, sports fields, and golf courses where turf provides a playing surface.

**Sprinkler head** means a device that delivers water through a nozzle.

**Station** means an area served by one valve or by a set of valves that operate simultaneously.

**Turf** means a ground cover surface of mowed grass. Kentucky bluegrass, Perennial ryegrass, Red fescue, and Tall fescue are examples of cool-season grasses. Bermuda grass, Kikuyu grass, Seashore Paspalum, St. Augustine grass, Zoysia grass, and Buffalo grass are examples of warm-season grasses.

**Valve** means a device used to control the flow of water in the irrigation system.

**Water feature** means a design element where open water performs an aesthetic or recreational function. Water features include ponds, lakes, waterfalls, fountains, artificial streams, spas, and swimming pools (where water is artificially supplied).

**WUCOLS** means the *Water Use Classification of Landscape Species*, published by the University of California Cooperative Extension, the Department of Water Resources, and the Bureau of Reclamation, 2000. (WUCOLS) report is available at http://www.water.ca.gov?wateruseefficiency/publications/. Search for WUCOLS, and then go to Part 2 WUCOLS III* 1999 Edition, Introduction