

1) Project Information

Date Prepared

Project Applicant

Project Address (if available, parcel and/or lot number(s))

Total Landscape Area

Project Type

Water Supply Type

Project Owner Contact Information

Address _____

City _____ State _____

Phone _____

Email _____

Project Applicant Contact Information

Address _____

City _____ State _____

Phone _____

Email _____

I agree to comply with the requirements of the water efficient landscape ordinance and submit a complete Landscape Documentation Package

x _____
 Signature Date

2) Water Efficient Landscape Worksheet

Hydrozone Information Table

Water Budget Calculation

Maximum Applied Water Allowance (MAWA)

Estimated Total Water Use (ETWU)

3) Soil Management Report

4) Landscape Design Plan

5) Irrigation Design Plan

6) Grading Design Plan

Appendix B — Sample Water Efficient Landscape Worksheet.

WATER EFFICIENT LANDSCAPE WORKSHEET

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

Reference Evapotranspiration (ET_o) _____

Hydrozone # /Planting Description ^a	Plant Factor (PF)	Irrigation Method ^b	Irrigation Efficiency (IE) ^c	ETAF (PF/IE)	Landscape Area (sq. ft.)	ETAF x Area	Estimated Total Water Use (ETWU) ^d
Regular Landscape Areas							
				Totals	(A)	(B)	
Special Landscape Areas							
				1			
				1			
				1			
				Totals	(C)	(D)	
ETWU Total							
Maximum Allowed Water Allowance (MAWA)^e							

^aHydrozone #/Planting Description
E.g
1.) front lawn
2.) low water use plantings
3.) medium water use planting

^bIrrigation Method
overhead spray
or drip

^cIrrigation Efficiency
0.75 for spray head
0.81 for drip

^dETWU (Annual Gallons Required) =
Eto x 0.62 x ETAF x Area
where 0.62 is a conversion factor that converts acre-inches per acre per year to gallons per square foot per year.

^eMAWA (Annual Gallons Allowed) = (Eto) (0.62) [(ETAF x LA) + ((1-ETAF) x SLA)]
where 0.62 is a conversion factor that converts acre-inches per acre per year to gallons per square foot per year. LA is the total landscape area in square feet, SLA is the total special landscape area in square feet, and ETAF is .55 for residential areas and 0.45 for non-residential areas.

ETAF Calculations

Regular Landscape Areas

Total ETAF x Area	(B)
Total Area	(A)
Average ETAF	B ÷ A

Average ETAF for Regular Landscape Areas must be 0.55 or below for residential areas, and 0.45 or below for non-residential areas.

All Landscape Areas

Total ETAF x Area	(B+D)
Total Area	(A+C)
Sitewide ETAF	(B+D) ÷ (A+C)

HISTORY

1. New Appendix B filed 9-10-2009; operative 9-10-2009 pursuant to Government Code section 11343.4 (Register 2009, No. 37).

2. Repealer and new Appendix B filed 9-15-2015; operative 9-15-2015. Exempt from OAL review and submitted to OAL for printing only pursuant to Governor's Executive Order No. B-29-15 (4-1-2015) (Register 2015, No. 38).

Sample Landscape Design Plan Checklist

Date Prepared _____

Project Owner Contact Information Address _____

City _____ State _____

Phone _____

Email _____

Project Applicant Contact Information Address _____

City _____ State _____

Phone _____

Email _____

Project Address (if available, parcel and/or lot number(s))

Hydrozone

Delineate and label each hydrozone by number, letter, or other method

Identify each Hydrozone as low, moderate, high water, or mixed water use.*

Identify on Plans:

Recreational Areas

Areas Permanently and Solely Dedicated to Edible Plants

Areas Irrigated with Recycled Water

Type of Mulch and Application Depth

Soil Amendments, Type, and Quantity

Type and Surface Area of Water Features

Location of Hardscapes (Pervious and Non-pervious)

Applicable Rain Harvest or Catchment Technologies

24-Hour Capacities

Applicable Graywater Discharge Piping, System

Components and Area(s) of Distribution

C3 Checklist

The following statement shall be printed on the front page of the Landscape Design Plan along with the signature of person(s) authorized to design a landscape:

"I have complied with the criteria of the ordinance and applied them for the efficient use of water in the Landscape Design Plan"

Soil Sample Lab Report

Soil Sampling Conducted at appropriate depth for the intended plants.

Soil Analysis:

- 1. Soil Texture
- 2. Infiltration Rate
- 3. pH
- 4. Total Soluble salts
- 5. Sodium
- 6. Percent Organic Matter
- 7. Recommendations

c) Multiple Landscape Installations

- 1. Sample at minimum 15% of lots

Soil Mangement Report Submittal

No Significant Mass Grading Planned - Submit with Landscape Document Package

Significant Mass Grading Planned - Submit with Certificate of Completion

I verify that the Soil Management Report was provided to Persons Preparing Landscaping Design Plan

x _____
 Signature Date

Irrigation Design Plan Checklist

Location of Separate Water Meters for Landscape

Location, type and size of all components of the irrigation system, including controllers, main and lateral lines, valves, sprinkler heads, moisture sensing devices, rain switches, quick couplers, pressure regulators, and backflow prevention devices.

Static water pressure at the point of connection to the public water supply

Flow rate (gallons per minute), application rate (inches per hour), and design operating pressure (pressure per square inch) for each station

Location of Recycled Water Irrigation Systems

The following statement shall be printed on the front page of the Landscape Design Plan along with the signature of person(s) authorized to design a landscape:

"I have complied with the criteria of the ordinance and applied them for the efficient use of water in the Landscape Design Plan"

X _____
Signature Date

1) Project Information

Date Prepared

Project Applicant

Project Address (if available, parcel and/or lot number(s))

Total Landscape Area

Project Type

Water Supply Type

Project Owner Contact Informatio Address _____

City _____ State _____

Phone _____

Email _____

Project Applicant Contact Informa Address _____

City _____ State _____

Phone _____

Email _____

I certify that the landscape project has been installed per the approved Landscape Documentation Package (must be signed by either preparer of the Landscape Design Plan, Irrigation Design Plan, or the licensed landscape contractor):

x _____
Signature Date

"As-Built" or record drawings that reflect significant changes made in the field during construction.

Irrigation Scheduling Parameters used to set the controller.

Landscape and Irrigation Maintenance Schedule.

Irrigation Audit Report.

Soil Analysis Report (if not submitted with Landscape Document Package).

Appendix B - Prescriptive Compliance Option Checklist

1) Project Information

Project Address _____

Project Owner Contact Informatio Address _____

City _____ State _____

Phone _____

Email _____

Project Applicant Contact Informa Address _____

City _____ State _____

Phone _____

Email _____

Total Landscape Area

Turf _____

Plant Material _____

Water Supply _____

I agree to comply with the requirements of the prescriptive compliance option to the MWEL0

 x
Signature _____ Date _____

Appendix B – Prescriptive Compliance Conditions of Approval

1. Incorporate compost at a rate of at least four cubic yards per 1,000 square feet to a depth of six inches into landscape area (unless contra-indicated by a soil test);
2. Plant material shall comply with all of the following:
 - a. For residential areas, install climate adapted plants that require occasional, little or no summer water (average WUCOLS plant factor 0.3) for 75% of the plant area excluding edibles and areas using recycled water; For non-residential areas, install climate adapted plants that require occasional, little or no summer water (average WUCOLS plant factor 0.3) for 100% of the plant area excluding edibles and areas using recycled water;
 - b. A minimum three inch (3") layer of mulch shall be applied on all exposed soil surfaces of planting areas except in turf areas, creeping or rooting groundcovers, or direct seeding applications where mulch is contraindicated;
3. Turf shall comply with all of the following:
 - a. Turf shall not exceed 25% of the landscape area in residential areas, and there shall be no turf in non-residential areas;
 - b. Turf shall not be planted on sloped areas which exceed a slope of 1 vertical elevation change for every 4 feet of horizontal length;
 - c. Turf is prohibited in parkways less than 10 feet wide, unless the parkway is adjacent to a parking strip and used to enter and exit vehicles. Any turf in parkways must be irrigated by sub-surface irrigation or by other technology that creates no overspray or runoff.
4. Irrigation Systems Shall Comply with the Following:
 - a. Automatic irrigation controllers are required and must use evapotranspiration or soil moisture sensor data and utilize a rain sensor.
 - b. Irrigation controllers shall be of a type which does not lose programming data in the event the primary power source is interrupted.
 - c. Pressure regulators shall be installed on the irrigation system to ensure the dynamic pressure of the system is within the manufacturer's recommended pressure range.
 - d. Manual shut-off valves (such as a gate valve, ball valve, or butterfly valve) shall be installed as close as possible to the point of connection of the water supply.
 - e. All irrigation emission devices must meet the requirements set in the ANSI standard, ASABE/ICC 802-2014.
 - f. Areas less than (10) feet in width in any direction shall be irrigated with subsurface irrigation or other means that produces no runoff or overspray.
5. For non-residential projects with landscape areas of 1,000 square feet or more, a private submeter(s) to measure landscape water use shall be installed.
6. At the time of final inspection, the permit applicant must provide the owner of the property with a certificate of completion, certificate of installation, irrigation schedule and a schedule of landscape and irrigation maintenance.