

### No Permanent Irrigation: Step 1

#### Select one of the following:

- Submetered Irrigation: Permanently installed subsystem metering is in place for the irrigation systems at the project building and associated grounds.
- Non-Metered Irrigation: Irrigation systems are not metered separately from other water subsystems at the project building and associated grounds.

#### NON-METERED IRRIGATION

Select the option for Non-Metered Irrigation



### No Permanent Irrigation: Step 2

No permanent irrigation: The landscaping installed does not require permanent irrigation systems. Temporary irrigation systems used for plant establishment will be removed within one year of installation.

#### NO PERMANENT IRRIGATION

The project building and associated grounds have no permanent irrigation systems.

**Upload WEc3-6.** Provide a signed statement from the facility manager, property manager, or property owner stating that there is no permanent irrigation system installed on the grounds and that temporary or hand-watering occurs only on an as-needed basis and only during periods of drought or for the establishment of new plantings.

Upload Files:

Select no permanent irrigation and upload a signed statement confirming that there is no permanent irrigation.



### Theoretical Calculation: Step 1

### **NON-METERED IRRIGATION**

Select one of the following:

- LEED Design & Construction Streamlined Path: The project building earned a prerequisite or at least one point for water efficient landscaping under LEED for New Construction, LEED for Core and Shell, or LEED for Schools.
- Theoretical Performance Calculation (Option 2): Irrigation water reduction is determined by comparing theoretical baseline and design midsummer irrigation water use.
- No permanent irrigation: The landscaping installed does not require P Select non-metered irrigation and then the option for Option 2: Theoretical Performance Calculation.



### Theoretical Calculation: Step 2

#### THEORETICAL PERFORMANCE CALCULATION

Performance period start:	
Performance period end:	
Reference evapotranspiration rate (ET <sub>O</sub> ):	6.8

Table. Irrigation Baseline Case (July)

Input the ETo. This is often a value between 4 and 8. It's not always easy to track down but is generally gathered with local weather data stations.

# Theoretical Calculation: Step 3

Landscape Type	Area (sf)	ks	kd	kmc <sup>1</sup>	KL	ET <sub>0</sub>	ETL	Irrigation Type	IE	TWA (Gal)		
Turf grass	9,019	0.8	1	0.8	0.64	6.8	4.35	Sprinkler <b>v</b>	0.625	39,126		
Mixed - Trees, Sh	2,255	0.5	1.1	0.5	0.28	6.8	1.9	Sprinkler <b>▼</b>	0.625	4,273		
Total area	11,274		Baseline Total Potable Water Applied (TPWA) (gal)									

Add Row

Delete Row

#### Table. Irrigation Design Case (July)

Landscape Type	Area (sf)	ks	kd	kmc <sup>1</sup>	KL	ET <sub>0</sub>	ETL	Irrigati Type		IE	CE	TWA (Gal)
Turf grass	4,977	0.8	1	0.8	0.64	6.8	4.35	Sprinkler	-	0.625	1	21,601
Mixed - Trees, 😭	6,297	0.2	1.1	0.5	0.11	6.8	.75	Drip	•	0.9	1	3,262
Total area	11,274						Design 1	total water	applie	ed (TWA	) (gal)	24,863
	Nonpotable water used (gal)										l (gal)	0
	Design total potable water applied (TPWA) (gal)											24,863

Enter the baseline and installed irrigation cases.



### Theoretical Calculation: Tips

Landscape Type	Area (sf)	ks	kd	kmc1 Higher area of turf grass in	A I)
Turf grass	9,019	<del>&lt; 0.8</del>	í	the base case. But not 39.	126
Mixed - Trees, State	2,255	0.5	1.1	0.5 00% 6.8 1.9 Sprinkler • 0.625 4,2	273
Total area	11,274			Baseline Total Potable Water Applied (TPWA) (gal) 43,	399

Add Row

Delete Rov

Total area must Table. Irrigation Design Case (Ju be consistent

Landscape Type	Area (sf)	ks	kd	kmc <sup>1</sup>	KL	ET <sub>0</sub>	ETL	Irrigation Type		IE	CE	TWA (Gal)
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Total area	11,274						Design 1	total water ap	plie	ed (TWA)	(gal)	24,863
		Nonpotable water used (gal)										0
		Design total potable water applied (TPWA) (gal)										24,863

If claiming some controller efficiency, must back up with manufacturer data



## Theoretical Calculation: Tips

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Total area	11,274			Baseline Total Potable Water Applied (TPWA) (gal)								

Values for ks, kd, and kmc are consistent with low-med-high from the reference guide. If not, justify with a narrative

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## Theoretical Calculation: Tips

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Total area	11,274			Baseline Total Potable Water Applied (TPWA) (gal) 43.3								399
Values for kd are / Values for kmc must always												ays
often the same \ be the same for the desig												gn
between	1 the	e (July)	\		/ a	nd ii	nsta	lled ca	ISE	es		
baseline	(cf)	ks	kd	kmc <sup>1</sup>	KL	ET <sub>0</sub>	ETL	Irrigatior Type	ו	ΙE	CE	TWA (Gal)
Turf grass	4.977	0.8	1	0.8	0.64	6.8	4.35	Sprinkler	•	0.625	1	21,601
Justify of	ıπerer	nces <sub>.2</sub>	1.1	0.5	0.11	6.8	.75	Drip	•	0.9	1	3,262
with a n	arrativ	'e					Design t	otal water a	pplie	d (TWA)	(gal)	24,863
	Nonpotable water used (gal)									0		
Design total potable water applied (TPWA) (gal)										(gal)	24,863	