

RMW
Landscape Irrigation Estimate

Existing

	square feet	Plant factor	Adjusted Area
low water use plants	95,961	0.3	28,788
moderate water use plants	0	0.5	0
high water use plants	32,510	1	32,510

gal ac/ft

Estimated landscape ground water use	2,266,045	6.95
Vineyard ground water irrigation		99.04

Total existing ground water use 105.99

Proposed

	square feet	Plant factor	Adjusted Area
low water use plants	196,621	0.3	58,986
moderate water use plants	0	0.5	0
high water use plants	2,070	1	2,070

gal ac/ft

Estimated landscape ground water use	2,257,099	6.93
Vineyard ground water irrigation		99.04

Total proposed ground water use 105.97

Annual Eto = 47.7
conversion factor (gal/sf) 0.62
Irrigation efficiency 0.8 Based on 70% of drip irrigation

Note:

1. domestic and process water provided by municipal water and not ground water
2. vineyard irrigation based on Napa County's Water Availability Analysis 2015 guidelines