

## ALL WATER DEMAND VALUES IN MILLION GALLONS PER DAY (MGD)

The proposed development includes:

Development Units	1224	
Conversion to population is	2142 based on	1.75 persons per DU
Finished water demand is	0.178 based on	83 gallons per person per day
Conversion to Raw Water demand is	0.356 based on	2 times the finished water demand with RO recovery rate at 50%

The finished water demand is calculated using the latest calculated water use Level of Service (LOS) of 83 gallons per person per day.

This is based on the most recent 5 year average and is used in the recently completed Water Supply Plan report submitted to the WMD.

The current Comp Plan LOS is 90; however, at the time this was adopted the discussion was to adopt the new Water Supply Plan LOS once that number is determined.

The WMD has commented on the LOS in the current Water Supply plan report, suggesting that this number should be lower.

The following calculations are based on WMD calculation methodology. In our case, with an RO plant, the raw water need is much greater than the finished water need.

Thus we calculated the finished water demands first and then the raw water demand by multiplying by 2 to reflect the 50% recovery rate.

The 2027 total projected water demand, including JPAs, is 3.114 per Water Supply Plan dated May 2019.

> Subtract out the proposed project demand calculated above 2.936

> Subtract the current demands from the projected demands 0.829 = growth demand

## D.1 RAW WATER CALCULATION

1. Current water use allocation (CUP):	6.864	
2. Plus any raw water purchased from other suppliers:	0	
3. Less current demands, including distribution system losses:	4.566	
4. Less Allocations committed to other water suppliers:	0	
5. Less reserved allocations:	0	
6. Less projected Growth demand:	1.658	
7. Equals amount available for proposed land use change:	0.640	Excess capacity is available though at least 2027

## D.2 FINISHED WATER CALCULATION

1. Current water treatment facility permitted capacity:	4.49	
2. Plus any finished water purchased from other suppliers:	0	
3. Less finished water committed to existing development:	2.107	
4. Less finished water committed to other water suppliers:	0	
5. Less finished water reserved for approved developments:	0	
6. Less finished water for projected growth demand:	0.829	
7. Equals amount of finished water capacity available:	1.554	Excess capacity is available through at least 2027