

Water Demand Estimate

Project: Buena Vista Vineyard
 Project Address: 3925 Buena Vista Dr, Paso Robles, CA 93446
 APN: 025-390-011 & 025-390-038
 Date: 03/12/2024



DOMESTIC DEMANDS

	Quantity	Type	Flow Rate	Facility Demand (GPD)
1. HOTEL	155	Unit ¹	60	9,300
2. WINE TASTING	45	Guest ²	5	225
3a. RESTAURANT (within hotel)	1	Unit ³	1495	1,495
3b. RESTAURANT (separate)	1	Unit ³	1495	1,495
4. MEDICAL SPA COTTAGES	7	Bed ⁴	250	1,750
5. WEDDING PAVILION	200	Guest ²	5	1,000
6.1. MAINTENANCE BUILDING - EMPLOYEE	4	Employee ⁵	20	80
6.2. HOTEL - EMPLOYEE	10	Employee ⁵	20	200
6.3. WINE TASTING - EMPLOYEE	6	Employee ⁵	20	120
6.4. RESTAURANT - EMPLOYEE	20	Employee ⁵	20	400
6.5. MEDICAL SPA - EMPLOYEE	6	Employee ⁵	20	120
6.6. WEDDING PAVILION - EMPLOYEE	10	Employee ⁵	20	200
6.7. GUEST ENTRY LOBBY AND VALET - EMPLOYEE	2	Employee ⁵	20	40
7. LAUNDRY	7.5	Cycle ⁶	50	375
8. COTTAGES	30	Unit ⁷	60	1,800
9. TENTS	8	Unit ⁸	15	120
10. CONFERENCE MEETING CENTER	150	Guest ²	5	750
Subtotal				19,470 GPD

(75% occupancy for average day demand)
 (100% occupancy for max day demand)
 (720 minutes per 12 hour day)

Average Day Demand	14,603	GPD
Max Day Demand	19,470	GPD
27		GPM
Peaking Factor	1.79	
Peak Hour Demand	48	GPM

FIRE FLOW DEMANDS

	FS Per CFC Section	Facility Demand (GPM)
1. GOVERNING HYDRANT SUPPLY	903.3.1.1	1,500

Notes:

CPC Table H 201.1(4) was used to determine gpd for each use:

- Hotel no kitchen CPC Table H 201.1(4) Estimated @ 60 gpd/bed
- Event center assessed with code as dance hall CPC Table H 201.1(4) Estimated @ 5 gpd/person
- Restaurants: [CPC Table H 201.1(4) Estimated patrons @ 7 gpd/patron + Kitchen/Dining/Garbage Demand @ 6 gpd/meal]; 75 seats with dining turnover expected at 115 patrons total, 115 meals.
- Medical use assessed with CPC Table 201.1(4) as like kind with Hospitals @ 250 gpd/bed.
- Employee CPC Table H 201.1(4) Estimated @ 20 gpd/employee
- Laundry Facilities CPC Table H 201.1(4) Estimated @ 50 gpd/cycle. Assumes 1/4 of rooms to wash per day with 2 rooms per machine cycle.
- Motel with kitchen CPC Table H 201.1(4) Estimated @ 60 gpd/unit
- Camps (day) with no meals served CPC Table H201.1(4) Estimated @ 15gpd/person