

# Sewer Feasibility Report



#### **MEMORANDUM**

To: Shea Rhoda

From: Paul Schneider, P.E.

**Date:** 03/14/2025

Re: Napa Gateway Sewer Feasibility Report



#### I. Introduction

Our office has been retained to document the design and operational parameters for the proposed wastewater disposal system for the Gateway Building. The facility is proposing to allow for wine production during peak season which will generate process waste water.

# II. Employees, Visitors, and Wine Production

The facility does not anticipate visitors as there is no retail operation planned. Wastewater generation is based on the County of Napa use table of 15 gpd per employee. The maximum number of employees onsite is 15, however this waste does not enter the hold ana haul system. The facility is proposing to produce 250,000 gallons of wine per year, which according to Exhibit A generates 450,000 gallons of process waste water at peak daily flow of 8,250 gallons.

# III. Proposed Hold and Haul System

The project proposes to utilize a hold and haul system to dispose of the process wastewater. The system will have the following design elements:

- Odor control and venting
- High water alarm set to 70% of the full volume
- 7 day peak flow capacity
- Tanks will be below grade Xerxes tanks
- Manway access will be elevated 2" minimum above grade to prevent intake of water and will be H20 traffic rated

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The anticipated total volume required is 8,250 gallons per day (gpd) for 7 days shown in Table A below:

Table B: Available Capacity (gpd)				
Process Waste (gpd)	Days	Total Volume (gal)		
8,250	7	57,750		

Per Exhibit B the project proposes to install 60,000 gallons of waste storage capacity.

# **IV. Conclusion**

The projects hold and haul system has bene design per the County requirements and is a viable solution to hold up to 7 days of peak waste flow before operations have to cease.

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# **Exhibit A: Industrial Water Demand Estimate**

Converter	Tons/Cases/Gallons of Wine (input blue number)			
	ENTER	Cases	Tons	Gallons of Finished Wir
Tons	1	63		150
Cases	22575	-	358.3	53729
Gallon finished Wine	250,000	105042	1667	-
Total WW/year	3650000	383403	6086	912500
	1			
105042	Cases/Year			
63	Cases/Ton			
2.38	Gal of Wine/Case			
4	Gal of PW:Wine Ratio			
45	% of Annual PW Used During Vintage			
60	Days of Vintage			
305	Days/Year			
1.1	SF for Peak/Max Daily Flow			
250000	Total Finished Wine/Year, in Gallons			
1000000	Total PW/Year, in Gallons			
450000	Total Volume of Wastewater Generated During Vintage, in Gallons			
7500	Average Daily Wastewater Production During Vintage, in Gallons			
1803	Average Daily Wastewater Production During Rest of the Year, in Gallons			
8250	Peak Daily Flow During Vintage, in Gallons	(System Size Based On This Number)		
16500	Recommended EQ Capacity (2-Day Minimum), in Gallons			

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# **Exhibit B: Hold and Haul Schematic**

