



Winery Wastewater Management Update

NapaSan
Board of Directors Meeting
July 18, 2018



Background

- Conducted an in-house economic and environmental feasibility study in Oct. 2014
- Presented results to stakeholders in Jan. 2015
- Engaged with Napa Valley Vintners to gain additional information
 - Advised by NVV to work directly with hold and haul facilities in July 2016



Background

- 2017-19 Strategic Plan
 - Objective 3A: Reengage with winery industry to understand and evaluate options for mutually beneficial alternatives for managing winery waste.
- Began investigating options that don't require new treatment infrastructure
 - Started pilot project to accept winery wastewater



Winery Wastewater Acceptance Pilot

- Conditions
 - One truck per week
 - Water had to be pH adjusted
 - No fees during pilot
- One facility currently participating- Wine Foundry
- Started accepting one 6,500 gallon truck per week in March 2018
- Wastewater pumped into day tank for treatment



Pilot (continued)

- Waste is not high strength
- Shows no negative impact on treatment process
- Have ability to accept additional winery wastewater
- Plan to add another winery/brewery to receive 13,000 gallons per week
- Adding more winery/brewery facilities has proven challenging for a good reason



The Good Reason

- Napa Recycling and Waste Services (NRWS) is utilizing winery/brewery wastewater in compost process
- Currently getting water from 7 facilities (2 out of county, 5 in NapaSan service area) for a total of 10,000 gallons per day
- Current project to double composting capacity and water use will require 35,000 gallons per day
- Long-term maximum water need will be 50,000 gallons per day
- Charging 3.5-5¢ per gallon depending on quantity- similar to EBMUD



Hold and Haul Facility Information

- In the NapaSan service area, there are 25 Hold and Haul facilities
- Based on data submitted and estimations, roughly **13.5 million gallons** of wastewater is hauled from these facilities annually



Total Amount of Water Needed by NRWS

- By the end of 2019, NRWS will be able to receive between **9.1 million and 12.6 million*** gallons per year
- Within next 5 years, NRWS will be able to receive between **13 million and 18 million gallons** per year
- If NapaSan continues to receive 13,000 gallons of water per week or more, another **675,000 gallons** per year can be managed locally.

*
Lower figure assumes no deliveries on weekends. Higher figure assumes deliveries every calendar day.



Conclusion

- The volume of wastewater currently generated by hold and haul facilities in the NapaSan service area is similar to that which can be treated at NapaSan and Napa Recycling and Waste Services, which makes local process wastewater management a possibility.



Recommendation

- Continue to monitor winery wastewater volumes
- Continue treatment plant pilot study
- Re-evaluate as part of the Board's Strategic Plan in Spring 2019.