

Focused Vehicle Collision and Left-Turn Lane Requirement Analysis Parable Winery Use Permit Minor Modification P23-00230-MM

Parable Winery Use Permit Minor Modification, P23-00230-MM Zoning Administrator Hearing – January 22, 2025



Technical Memorandum

March 15, 2024

То	Trey Eppright Parable Winery	Contact No.	
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From	Peter Galloway, Senior Transportation Planner, GHD	Project No.	12626165
Project Name	Parable Winery Use Modification Project	;t	
Subject	Focused Vehicle Collision and Left-Tur	n Lane Requirem	ent Analysis (Updated)
Attachments	Radar Speed Surveys, Parable Winery Tri County Left-Turn Lane Warrant Graph	p Generation, Ave	rage Daily Traffic (ADT) Counts, Napa

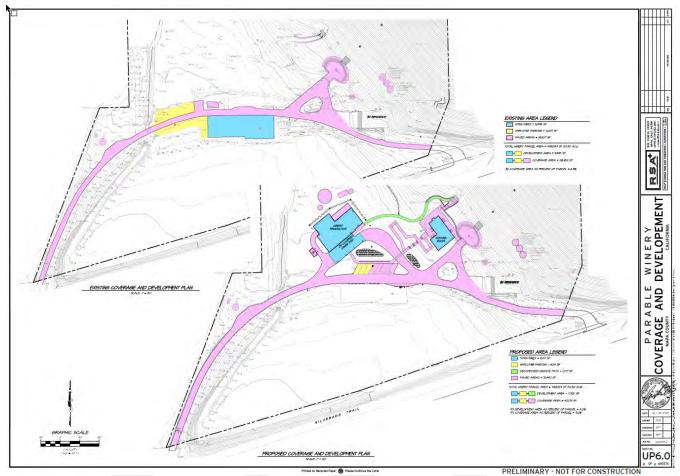
1. Introduction

The following technical memorandum provides a focused vehicle collision and left-turn lane requirement analysis for the proposed Parable Winery Use Modification project in Calistoga, CA (Napa County). Based on recent County comments related to this draft technical memorandum; the collision, trip generation, and left-turn lane analyses/discussions have been updated to reflect County input.¹ The project site is located at 4300 Silverado Trail approximately 3,600 feet north of the east-west cross street Larkmead Lane (**see Figure 1**— Project Site Plan). Vehicle access to the project site would be gained at two (2) driveways; the north driveway would serve inbound traffic (only) and the south driveway outbound traffic (only). Both project driveways are approximately 930-feet apart on Silverado Trail.

At the request of the project applicant, supplemental transportation and safety analyses have been performed for proposed project driveway access and vehicle safety along Silverado Trail in the project study area. Specifically, vehicle collision analyses have been performed along Silverado Trail at the proposed project driveways and project frontage (between Clover Flat Road & Dutch Henry Canyon Road) based on Napa County and the California Highway Patrol vehicle collision data. In addition, left-turn lane warrant analyses have been performed for both project driveways based on the most recent Napa County Roadway and Street Standards. In addition to the above transportation analysis for the proposed project, vehicle sight distance

→ The Power of Commitment

¹ Anna Vickroy, PE, TE, TJKM Transportation Consultants (for Napa County Public Works), Parable Winery P23-00230 Use Permit Minor Modification & Variance, Comments on Focused Vehicle Collision and Left-Turn Lane Requirement Analysis (GHD, December 2023), January 19, 2024.



Source: RSA Consulting Civil Engineers/Surveyors, 2023 Figure 1—Project Site Plan

analyses for the proposed project driveways were performed by RSA for coordinating driveway access and safety and are referenced in our vehicle sight distance evaluation for this study.²

The following updated sections provide detailed analysis of the overall project setting, data collection, vehicle collision analysis, proposed project trip generation, left-turn lane driveway warrant analysis, and findings.

2. Project Setting/Description

The term "Project" as used in this technical memorandum will refer to the proposed Parable Winery Use Modification development at 4300 Silverado Trail in Calistoga. As noted, the project site is located approximately 3,600 feet north of Larkmead Lane on the east side of Silverado Trail and is served by two (2) driveway access points. Along the project frontage of Silverado Trail the roadway has one 12-foot travel lane in each direction with Class II bike lanes (6-foot) on both sides of the roadway. In addition, Silverado Trail is striped for southbound passing zone that starts just past the proposed project's northern driveway and extends south for approximately 500-feet. Similarly, Silverado Trail is striped for a northbound passing zone that initiates approximately 230-feet south of the proposed project's south driveway and extends for 500-feet.

Based on current permitted (entitled) uses and proposed project use modifications, the Winery-related activities during the Harvest season can be described as follows:

² RSA, Sight Distance Report, Prepared for Parable Winery (APN 020-120-028), October 12, 2023.

Permitted Uses:

- Production 20,000 gallons
- Employment 3 full-time employees (weekday & weekend)
- Visitation 34 visitors (weekday) & 35 visitors (weekend)

Proposed Project Use Modification Uses:

- Production 20,000 gallons
- Employment 3 full-time employees (weekday & weekend)
- Visitation 20 visitors (weekday) & 20 visitors (weekend)

Due to the disagreement as to the existing entitlements for the property between the County and the applicant, GHD has evaluated the proposed project under both baselines as follows:

- Baseline #1: Permitted visitation of 34 weekday daily visitors and 35 weekend daily visitors (project applicant's understanding);
- Baseline #2: Zero permitted visitors (Napa County's understanding).

Please refer to Section 5: Project Trip Generation for a full analysis of both Baseline #1 and Baseline #2.

As the applicant contends (with proposed project use modifications), there would be a net reduction in the number of daily visitors to the project site. The reduction in Winery visitation would amount to 14 daily visitors on a weekday and 15 daily visitors on weekends (Saturday). At this time, the marketing events would consist of 30 or 50 guests (largest event) occurring less than once per month.

3. Collision History Analysis

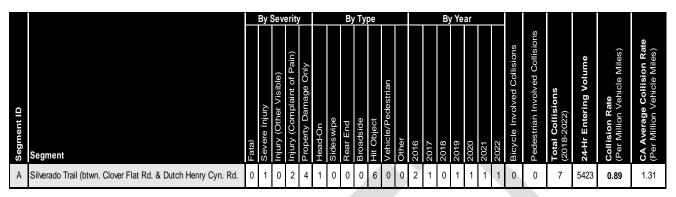
A collision analysis was conducted for the study area to determine any trends or patterns that may indicate a safety issue at project driveway intersections or the Silverado Trail roadway segment in the study area. Collision rates are calculated based on records provided by the California Highway Patrol as published in their State-wide Integrated Traffic Records System (SWITRS) database. Based on County input, the collision analysis was extended by two (2) additional years to account for the destruction of the Winery in the 2020 Glass Fire. Consequently, (rather than a five-year period), the most current seven (7) year period from January 1, 2016, through December 31, 2022, was analyzed. Collision characteristics and rates for the Silverado Trail roadway segment between Clover Flat Road and Dutch Henry Canyon Road along the project frontage (including the Parable Winery driveways) were evaluated as shown in **Table 1**.

Based on a review of the collision data, there were no vehicle collisions at the Parable Winery north and south driveways. However, over the seven-year period there was a total of seven vehicle collisions along the Silverado Trail study segment. In addition, the calculated collision rate for the Silverado Trail roadway segment was compared to the average collision rate for similar facilities state-wide, as indicated in the *2020 Collision Data on California State Highways* (Caltrans). As presented in **Table 1**, the roadway segment is experiencing a collision rate (0.89) lower than the 2020 California Average for similar facilities (1.31).

A review of the specific collision data indicates that six of the seven collisions involved hitting a "fixed-object" on Silverado Trail. The other vehicle collision was more severe and involved a "head-on" accident that occurred approximately 900-feet south of the Parable Winery frontage on Silverado Trail. While any vehicle collision is unfortunate, none of the fixed-object or head-on vehicle collisions were associated with driveway access at the Parable Winery to/from Silverado Trail within the roadway segment. Therefore, the Silverado Trail roadway segment between Clover Flat Road and Dutch Henry Canyon Road and Parable Winery driveways would be

 Table 1: Collision History Analysis: Silverado Trail Between Clover Flat Rd. & Dutch Henry Canyon Rd.

 (January 1, 2016 through December 31, 2022)



considered to be operating acceptably from a vehicle safety standpoint. The roadway segment is below the State's average collision rate and the majority of collisions are fixed-object in nature.

4. Vehicle Sight Distance

Radar speed surveys were conducted on Silverado Trail for the roadway segment along the proposed project frontage and project driveways. The vehicle speed limit along Silverado Trail in the project study area is posted at 55 mph. The "critical" vehicle speed (the speed at which 85% of all surveyed vehicles travel at or below) along Silverado Trail was measured at 58 mph between the two project driveways (see Radar Speed Survey Summaries—attached). Caltrans' design standards indicate that measured vehicle speeds require a stopping sight distance of 548 feet both north and south of each project driveway measured along the travel lanes of Silverado Trail. Based on field measurements shown in **Figure 2**, vehicle sight distance from the Parable Winery south driveway for outbound vehicles (stop-sign controlled vehicles) is approximately 650-feet to the south and 1,400-feet to the north. At the Parable Winery's north driveway (inbound vehicles only), the vehicle sight distance for southbound vehicles on Silverado Trail to a stopped vehicle on Silverado Trail turning east into the project driveway is approximately 800-feet. For vehicles traveling northbound along Silverado Trail and turning right into the north project driveway, the vehicle sight distance is 1,400-feet. Therefore, the vehicle sight distance recommendations based on Caltrans requirements would be met at both Parable Winery driveways for the speed limit and measured vehicle speeds along Silverado Trail. Vehicle sight distance is further confirmed in the RSA vehicle sight distance analysis for the proposed project previously referenced.

5. Driveway Spacing

The distance between the Parable Winery north and south driveways on Silverado Trail is approximately 930feet. While research on specific driveway spacing can vary depending on category (residential, commercial, or private); municipalities and public agencies generally have minimum distance requirements for driveway spacing to reduce vehicle conflicts and improve overall safety for vehicle ingress/egress. Specific distance requirements are typically based on posted speed limits, classification of roadway, or the amount of traffic generated by a development. As noted in the Vehicle Sight Distance section (above), the Parable Winery driveways require a stopping sight distance of 548-feet based on surveyed vehicle speeds of 58 mph on Silverado Trail. Caltrans sight distance requirements are met for both the north and south Parable Winery driveways and the 930-foot spacing between the two driveways is one component contributing to these minimum standards.

Consideration has also been given to "gap acceptance" for vehicles exiting the project site. Caltrans and AASHTO guidelines indicate a *corner sight distance* (more conservative than stopping sight distance) time gap

SIGHT DISTANCES

Upper Valley Disposal

North Driveway: ≈ 400' sight distance from setback. (up to 450' with vegetation trimmed)

North Driveway: ≈ 800' sight distance from SB vehicle on on Silverado Trail to SB vehicle turning into North driveway. (up to 900' with vegetation trimmed) South Driveway: ≈ 1,100' sight distance from setback.

North Driveway: One-way Inbound PROJECT SITE Parable Winery North Driveway: ≈ 1,400' sight distance from setback.

LEGEND

South Driveway: One-way Outbound

Solid Line Arrows indicate sight distances from North Driveway setback.

Dashed Line Arrows indicate sight distances from South Driveway setback.

 Dotted Line Arrow indicates sight distance
 from a southbound vehicle on Silverado Trail to a southbound vehicle turning into north driveway.

GHD

Parable Winery Driveway Sight Distances



Project No. 12626165

FIGURE 2

for unsignalized intersections. Specifically, the guidelines indicate a standard gap acceptance of 7.5 seconds for a vehicle to make a left-turn from a minor street (driveway) across traffic lanes and merge into through-traffic safely (two-lane highway).³ For vehicles exiting the Parable Winery south driveway, there is currently 650-feet of sight distance available looking to the south and 1,400-feet of sight distance looking to the north. For the surveyed vehicle speed of 58 mph on Silverado Trail, the *corner sight distance* requirement is 638-feet of sight distance. Therefore, the 7.5 second gap acceptance for vehicles exiting the Parable Winery south driveway would be met. With a distance of approximately 930-feet between the north and south Parable Winery driveways; a vehicle traveling 60 mph would take 10.5 seconds to reach the second Winery driveway using the more conservative corner sight distance requirements. Given the satisfaction of the 7.5 second gap acceptance for the outbound south Winery driveway and 10.5 second buffer between the two driveways for vehicles traveling at-speed (60 mph), the available evidence indicates that the two Winery driveway carries its own daily trip generation (traffic) as a result of the distance between the driveways and limited access operation.

6. Project Trip Generation

Daily and peak hour trip generation has been based on the most recent Napa County PBES Winery Trip Generation Worksheets for permitted and proposed Winery uses (attached). Based on permitted Winery uses and proposed project use modifications associated with the Parable Winery activities, the increase/decrease in daily and peak hour traffic volumes have been calculated based on two different baseline assumptions.

GHD has used two different baselines as follows:

- 1. Baseline #1--Project Applicant Understanding: Permitted winery uses are acknowledged by the County that allows 20,000 gallons of production, 3 full-time employees, and 34 daily visitors (weekday) and 35 daily visitors (weekend)
- 2. Baseline #2--Napa County Understanding: Permitted winery uses (only) are acknowledged by the County that allows 20,000 gallons of production, 3 full-time employees, and zero (0) permitted visitation.

Baseline 1: Project Applicant Understanding (With Permitted Visitation Levels)

As calculated in **Table 2**, with permitted visitation levels allowed the proposed project use modification uses would create an overall net decrease in vehicle trips to/from the site. Both Winery production (20,000 gallons) and employment (3 full-time employes, weekday/weekend) would remain unchanged from permitted project uses. However, overall weekday and weekend daily visitation would be reduced to 20 visitors per day. Current permitted visitation levels allow 34 weekday visitors and 35 weekend visitors (per day). The resulting decrease in visitation with proposed project use modifications would result in a reduction of 11 daily trips during both weekday and weekend conditions. Peak hour project trips would be reduced by 4 trips on a weekday and 6 trips on a weekend.

Baseline 2: Napa County Understanding (Without Permitted Visitation Levels)

As calculated in **Table 3**, without permitted visitation levels allowed the proposed project use modification uses would create an overall net increase in vehicle trips to/from the site. Both Winery production (20,000 gallons) and employment (3 full-time employes, weekday/weekend) would remain unchanged from Baseline 1 permitted project uses. However, overall weekday and weekend daily visitation would increase from zero to 20 visitors per day for both weekday and weekend conditions. The resulting increase in visitation with proposed project use modifications would result in the addition of 15 daily trips during the weekday and 14 daily trips during weekend conditions. Peak hour project trips would increase by 6 trips on a weekday and 8 trips on a weekend.

³ Caltrans, Highway Design Manual, Chapter 200, Geometric Design and Structure Standards, Table 405.1A, Corner Sight Distance Time Gap for Unsignalized Intersections (7.5 second rule), July 1, 2020.

Table 2:

Baseline #1: Project Applicant Understanding (With Permitted Visitation); Parable Winery Daily and Peak Hour Trip Generation

Maximum Daily & Weekday Trips	Permitted Uses Harvest Trips	Proposed Uses Harvest Trips	Net Increase/Decrease Harvest Trips	Existing Residence	Net Change In Permitted & Proposed Trips	Total Daily & Peak Hour Trips At Driveways ⁽¹⁾
<u>Maximum Weekday Traffic (Friday)</u> Weekday Daily Trips Weekday Peak Hour Trips	38 14	27 10	-11 -4	10 1	-1 -3	37 11
<u>Maximum Weekend Traffic (Saturday)</u> Weekend Daily Trips Weekend Peak Hour Trips	37 19	26 13	-11 -6	10 1	-1 -5	36 14

Source: Napa County Planning, Building, & Environmental Services (PBES), Use Permit/Major Modification Application, Winery

Trip Generation Worksheets, Weekday and Weekend Daily and Peak Hour Trip Generation, July 24, 2023 (attached).

(1) Project trips at driveways represent proposed uses trips plus exsting residence trips.

Table 3:

Baseline #2: Napa County Understanding (Without Permitted Visitation); Parable Winery Daily and Peak Hour Trip Generation

Maximum Daily & Weekday Trips	Permitted Uses Harvest Trips	Proposed Uses Harvest Trips	Net Increase/Decrease Harvest Trips	Existing Residence	Net Change in Permitted & Proposed Ttrips	Total Daily & Peak Hour Trips At Driveways ⁽¹⁾
<u>Maximum Weekday Traffic (Friday)</u> Weekday Daily Trips Weekday Peak Hour Trips	12 4	27 10	15 6	10 1	25 7	37 11
<u>Maximum Weekend Traffic (Saturday)</u> Weekend Daily Trips Weekend Peak Hour Trips	12 5	26 13	14 8	10 1	24 9	36 14

Source: Napa County Planning, Building, & Environmental Services (PBES), Use Permit/Major Modification Application, Winery

Trip Generation Worksheets, Weekday and Weekend Daily and Peak Hour Trip Generation, July 24, 2023 (attached).

(1) Project trips at driveways represent proposed uses trips plus exsting residence trips.

It is noted that an existing residence is present on the Parable Winery grounds currently under use. Therefore, Napa County requires the trip generation associated with the residence of 10 daily trips and 1 peak hour trip be added to overall proposed project use trips. The addition of 10 daily trips and 1 peak hour trip from residential uses would still result in a decrease in overall project trips under Baseline #1 assumptions. Specifically, there would be a net reduction of 1 daily trip on both the weekday/weekend and 3 peak hour trips (weekday) and 5 peak hour trips (weekend) as compared to permitted levels.

Under the Napa County Understanding Baseline #2 assumptions, daily and peak hour proposed uses (Harvest Trips) would increase to 25 daily trips and 7 peak hour trips for maximum weekday traffic volumes. During weekend maximum traffic volumes, there would be 24 daily trips and 9 peak hour trips.

For the Napa County left-turn lane warrant analysis, the County requires the use of total proposed daily trips resulting from the requested approval at the impacted roadway facility. Including the additional 10 daily trips from the existing residence, the proposed project would generate 37 daily trips on a weekday and 36 daily trips on the weekend (Saturday).

7. Napa County Left-Turn Lane Warrant Analysis

Napa County left-turn lane warrant analyses have been based on the Napa County Roadway and Street Standards (Section 17: Traffic Control Devices).⁴ The specific guidelines for left-turn installation are presented as follows:

<u>Left-Turn Lane Warrants</u>: Use Permits or modifications thereof shall trigger the application of the following warrants to determine the necessity for the left-turn lane for the proposed use:

(a) Application of the following Left-Turn Lane Warrant Graph based on road average daily traffic (ADT) and the projected ADT of the proposed use. The chart is a representation of probable conflict between turning traffic and advancing traffic. Private Road or Driveway ADT is the total ADT utilizing the facility. A left-turn lane will not be considered for uses generating an ADT of 10 or less;

(b) If the corner sight distance in advancing direction, measured from the driveway, is less than required per Caltrans design standards (usually the posted speed limit multiplied by 11, read in feet) a left-turn lane shall be installed;

(c) If traffic conditions or turning movements pose a considerable threat to public safety, as determined by the Director of Public Works, a left-turn lane shall be installed.

For the purpose of this study, (as described above), a "facility" is considered a driveway and/or roadway serving the proposed project. These facilities would include the Parable Winery driveways and Silverado Trail.

Average Daily Traffic (ADT) counts were conducted on Silverado Trail between the two Parable Winery driveways on consecutive Friday and Saturday's during the harvest season consistent with Napa County guidelines (attached).⁵ The highest recorded ADT volume occurred on a Friday at 5,423 along Silverado Trail at the project frontage.

The proposed project's driveways were evaluated for the left-turn lane warrant using Baseline #2 assumptions that assumes the County does not recognize existing permitted visitation levels. As shown in **Table 3**, the proposed project is expected to generate 27 weekday daily trips and 26 weekend daily trips. With 10 daily trips added to the totals from the existing residence, overall daily project trip generation would be 37 weekday trips and 36 weekend trips. With one project driveway limited to inbound flow (north driveway) and one project driveway limited to outbound flow (south driveway), this access design would equate to 18 daily trips at the north driveway and 18 daily trips at the south driveway (36-37 total daily project trips) as shown in **Figure 3**.

Existing plus Project daily volumes for a weekday Friday (worst case) were compared with the Napa County guidelines for installing a southbound left-turn lane on Silverado Trail at the Parable Winery north driveway. (see County left-turn lane warrant graph for weekday conditions---attached). As noted, the Napa County left-turn lane warrant is based on the combination of proposed project daily trips at the driveway and overall daily volumes on Silverado Trail. With 18 project daily trips at the north project driveway and 5,459 daily trips on Silverado Trail, a southbound left-turn lane *would not be warranted* on Silverado Trail based on County daily volume warrant requirements. Based on review of the County's left-turn lane warrant graph, an ADT of 5,459 on Silverado Trail would allow approximately 28 driveway trips before meeting the County's requirements for installation of a left-turn lane. With 18 daily trips at each project driveway, a left-turn lane would not be warranted at the inbound Parable Winery north driveway.

⁴ 2023 Napa County Road and Street Standards, Planning, Building, and Environmental Services (PBES), Chapter 17, Traffic Control Devices, April 18, 2023

⁵ Counts Unlimited, Average Daily Traffic (ADT) counts, 4300 Silverado Trail, October 27,28 & November 3,4, 2023.





Average Daily Traffic (ADT) Volumes Existing Plus Project Conditions Project No. 12626165

FIGURE 3

8. Conclusions

GHD has evaluated the proposed Parable Winery Use Modification project for vehicle safety along Silverado Trail and for satisfaction of the Napa County left-turn lane warrant. Vehicle collision analyses along the Silverado Trail roadway segment between Clover Flat Road and Dutch Henry Canyon Road indicate no significant vehicle safety issues. The vehicle collision rate is below the State average for similar facilities and there have been no collisions at the Parable Winery project driveways over the past seven years. Based on a review of the County's left-turn lane warrant graph, an ADT of 5,459 on Silverado Trail would allow approximately 28 driveway trips with Existing plus Project conditions before meeting the County's requirements for installation of a left-turn lane. Based on the empirical daily trip generation of 36 total daily project trips (18 inbound north driveway, 18 outbound south driveway), a left-turn lane would not be warranted at the Parable Winery north (inbound) driveway.

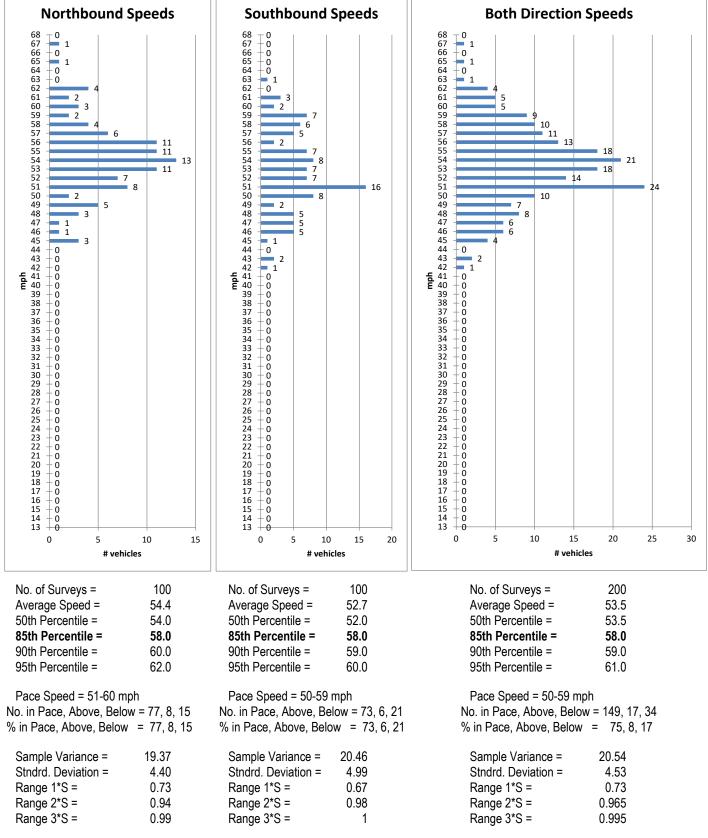
Road:Silverado TrailLocation:approaching Parable Winery (between the driveways)

Date:	11/10/23
Time:	2:00-3:30 pm
Weather:	Clear

Napa County, CA

Speed Limit:

55 mph





A Tradition of Stewardship A Commitment to Service

WINERY TRIP GENERATION WORKSHEET

Planning, Building & Environmental Services

1195 Third Street, Suite 210 Napa, CA 94559-3082 (707) 253-4417

A Commitment to Service	PROJECT DESCRIPTION	Clear Form
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Winery Name: Parable Winery--Baseline 1. With Existing Permitted Visitation Date Prepared: 11/28/23

Existing Entitled Winery		Harvest	Non-Harvest
Number of Full Time Employees*	Weekday	3	3
Number of Full time Employees	Weekend	3	3
Number of Part Time Employees*	Weekday	0	0
Number of Part Time Employees	Weekend	0	0
Maximum Daily Visitation	Weekday	34	18
	Weekend	35	19
Annual Gallons of Production		20,000	20,000
Annual Tons of Grape Haul		125.0	N/A
Number of Visitors at the Largest	Weekday		
Event that occurs two or more times per month, on average	Weekend		

Proposed Winery		Harvest	Non-Harvest
Number of Full Time Employees*	Weekday	3	3
Number of Full time Employees	Weekend	3	3
Number of Part Time Employees*	Weekday	0	0
Number of Part Time Employees	Weekend	0	0
Maximum Daily Visitation	Weekday	20	20
	Weekend	20	20
Annual Gallons of Production		20,000	20,000
Annual Tons of Grape Haul		125.0	N/A
Number of Visitors at the Largest	Weekday		
Event that occurs two or more times per month, on average	Weekend		

*Number of full time and part time employees should represent the max number of employees that will be working on any given day (including all vendors and contractors employed for the largest event that occurs two or more times per month on average).

Parable Winery--Baseline 1. With Existing Permitted Visitation

TRIP GENERATION

Existing Winer	У				Harvest	Non-Harvest
Maximum Daily Weekday	Traffic (Fride	<u>(ye</u>				
FT Employees PT Employees	Harvest 3 0	Non-Harvest 3 0	3.05 one way trips/employee 1.9 one way trips/employee	FT Employee Daily Trips PT Employee Daily Trips	9.2 0.0	9.2 0.0
Max Visitors Max Event	34 0	18 0	2.6 visitors/vehicle for 2 one way tr 2.6 visitors/vehicle for 2 one way tri		26.2 0.0	13.8 0.0
Gallons of Production Tons of Grape Haul#	20,000 125.0		0.000018 truck trips 0.013889 truck trips	Production Daily Trips Grape Haul Daily Trips	0.4 1.7	0.4 0.0
	-			Total Weekday Daily Trips Total Weekday Peak Hour Trips*	38 14	24 9
Maximum Daily Weekena	l Traffic (Sotu	rday)				
FT Employees PT Employees	Harvest 3 0	<u>Non-Harvest</u> 3 0	3.05 one way trips/employee 1.9 one way trips/employee	FT Employee Daily Trips PT Employee Daily Trips	9,2 0.0	9.2 0.0
Max Visitors Max Event	35 0	19 0	2.8 visitors/vehicle for 2 one way tr 2.8 visitors/vehicle for 2 one way tri		25.0 0.0	13.6 0.0
Gallons of Production Tons of Grape Haul#	20,000 125.0		0.000018 truck trips 0.013889 truck trips	Production Daily Trips Grape Haul Daily Trips	0.4 1.7	0.4 0.0
				Total Weekend Daily Trips Total Weekend Peak Hour Trips*	37 19	24
Aaximum Annual Traffic					-	
				Total Annual Trips**	9,816	
Proposed Wine	rv				Harvest	Non-Harvest

	5. Jahr		and the second the second			The second second second second
Maximum Daily Weekday	Traffic (Frida	וצי			1	
FT Employees PT Employees	Harvest 3 0	<u>Non-Harvest</u> 3 0	3.05 one way trips/employee 1.9 one way trips/employee	FT Employee Daily Trips PT Employee Daily Trips	9,2 0.0	9,2 0.0
Max Visitors Max Event	20 0	20 0	2.6 visitors/vehicle for 2 one way tri 2.6 visitors/vehicle for 2 one way trip		15.4 0.0	15.4 0.0
Gallons of Production Tons of Grape Haul#	20,000 125.0		0.000018 truck trips 0.013889 truck trips	Production Daily Trips Grape Haul Daily Trips	0.4 1.7	0,4 0,0
				Total Weekday Daily Trips Total Weekday Peak Hour Trips*	27 10	25 9
Maximum Daily Weekend	Traffic (Satu	rday)				
FT Employees PT Employees	Harvest 3 0	<u>Non-Harvest</u> 3 0	3.05 one way trips/employee 1.9 one way trips/employee	FT Employee Daily Trips PT Employee Daily Trips	9.2 0.0	9.2 0.0
Max Visitors Max Event	20 0	20 0	2.8 visitors/vehicle for 2 one way tri 2.8 visitors/vehicle for 2 one way trip		14.3 0.0	14.3 0.0
Gallons of Production Tons of Grape Haul#	20,000 125.0		0.000018 truck trips 0.013889 truck trips	Production Daily Trips Grape Haul Daily Trips	0.4 1.7	0.4 0.0
				Total Weekend Daily Trips Total Weekend Peak Hour Trips*	26 13	24 12
Maximum Annual Traffic				Total Annual Trips**	9,175	

Net New Trips	Harvest	Non-Harvest		
Maximum Weekday Traffic (Fi	riday)			
If total net nev	v daily trips is greater than 40, a TIS is required	Net New Weekday Daily Trips	-11	1
		Net New Weekday Peak Hour Trips*	-4	0
Maximum Weekend Traffic (So	nturday)			
If total net nev	v daily trips is greater than 40, a TIS is required	Net New Weekend Daily Trips	-11	Q
		Net New Weekend Peak Hour Trips*	-6	1
Maximum Annual Traffic	A Traffic Impact Study is NOT Required	1		
	in theme impact study is NOT Required	Net New Annual Trips**	-641	

#Trips associated with Grape Haul represent harvest season only.

*Weekday peak hour trips are calculated as 38% of daily trips associated with visitors and production plus one trip per employee. Weekend

peak hour trips are calculated as 57% of daily trips associated with visitors and production plus one trip per employee.
**Annual trips represent a conservative calculation that assumes 11 weeks of harvest, all weekdays are Fridays, all weekends are Saturdays, and assumes that the largest event that occurs two or more times per month on average occurs every day.



WINERY TRIP GENERATION WORKSHEET

Planning, Building & Environmental Services

1195 Third Street, Suite 210 Napa, CA 94559-3082 (707) 253-4417

A Tradition of Stewardship A Commitment to Service

PROJECT DESCRIPTION

Clear Form

11/28/23

Winery Name: Parable Winery--Baseline 2. No Existing Permitted Visitation Date Prepared:

Existing Entitled Winery		Harvest	Non-Harvest
Number of Full Time Employees*	Weekday	3	3
umber of Full Time Employees* umber of Part Time Employees* 1aximum Daily Visitation nnual Gallons of Production	Weekend	3	3
Number of Port Time Employees*	Weekday	0	0
Number of Part Time Employees	Weekend	0	0
Maximum Daily Visitation	Weekday	0	0
Maximum Daily Visitation	Weekend	0	0
Annual Gallons of Production		20,000	20,000
Annual Tons of Grape Haul		125.0	N/A
Number of Visitors at the Largest	Weekday		
Event that occurs two or more times per month, on average	Weekend		

Proposed Winery		Harvest	Non-Harvest
Number of Full Time Employees*	Weekday	3	3
Number of Full Time Employees*	Weekend	3	3
Number of Part Time Employees*	Weekday	0	0
Number of Part Time Employees	Weekend	0	0
Maximum Daily Visitation	Weekday	20	20
Maximum Daily Visitation	Weekend	20	20
Annual Gallons of Production	2.1.2.12	20,000	20,000
Annual Tons of Grape Haul		125.0	N/A
Number of Visitors at the Largest Event that occurs two or more	Weekday	0	0
times per month, on average	Weekend	0	0

*Number of full time and part time employees should represent the max number of employees that will be working on any given day (including all vendors and contractors employed for the largest event that occurs two or more times per month on average).

Parable Winery--Baseline 2. No Existing Permitted Visitation

TRIP GENERATION

Existing Winer	V			and the second second	Harvest	Non-Harvest
Maximum Daily Weekday	Traffic (Fride	iyl				
FT Employees PT Employees	Harvest 3 0	<u>Non-Harvest</u> 3 0	3.05 one way trips/employee 1.9 one way trips/employee	FT Employee Daily Trips PT Employee Daily Trips	9.2 0.0	9.2 0.0
Max Visitors Max Event	0	0	2.6 visitors/vehicle for 2 one way tri 2.6 visitors/vehicle for 2 one way tri		0.0 0.0	0.0 0.0
Gallons of Production Tons of Grape Haul#	20,000 125.0		0.000018 truck trips 0.013889 truck trips	Production Daily Trips Grape Haul Daily Trips	0.4	0.4 0.0
				Total Weekday Daily Trips Total Weekday Peak Hour Trips*	12 4	10 4
Maximum Daily Weekend	Traffic (Satu	day)		and the president of the		
FT Employees PT Employees	Harvest 3 0	<u>Non-Harvest</u> 3 0	3.05 one way trips/employee 1.9 one way trips/employee	FT Employee Daily Trips PT Employee Daily Trips	9.2 0.0	9.2 0.0
Max Visitors Max Event	0	0	2.8 visitors/vehicle for 2 one way tri 2.8 visitors/vehicle for 2 one way trip		0.0 0.0	0.0 0.0
Gallons of Production Tons of Grape Haul#	20,000 125,0		0.000018 truck trips 0.013889 truck trips	Production Daily Trips Grape Haul Daily Trips	0.4 1.7	0.4 0.0
				Total Weekend Daily Trips Total Weekend Peak Hour Trips*	12 5	10 4
Aaximum Annual Traffic		v		Total Annual Trips**	3,804	

Proposed Wine	ery				Harvest	Non-Harves
Maximum Daily Weekday	Traffic (Frida	(עו				
	Harvest	Non-Harvest				
FT Employees	3	3	3.05 one way trips/employee	FT Employee Daily Trips	9.2	9,2
PT Employees	0	0	1.9 one way trips/employee	PT Employee Daily Trips	0.0	0.0
Max Visitors	20	20	2.6 visitors/vehicle for 2 one way tr	ips Max Visitor Daily Trips	15.4	15.4
Max Event	0	0	2.6 visitors/vehicle for 2 one way tri	ps Max Event Daily Trips	0.0	0.0
Gallons of Production	20,000		0.000018 truck trips	Production Daily Trips	0.4	0.4
Tons of Grape Haul#	125.0		0.013889 truck trips	Grape Haul Daily Trips	1.7	0.0
				Total Weekday Daily Trips	27	25
	and the second second			Total Weekday Peak Hour Trips*	10	9
Maximum Daily Weekend	Traffic (Satu	rday)		and the first second second second second		
1	Harvest	Non-Harvest		A Construction of the		
FT Employees	3	3	3.05 one way trips/employee	FT Employee Daily Trips	9.2	9,2
PT Employees	0	0	1.9 one way trips/employee	PT Employee Daily Trips	0,0	0.0
Max Visitors	20	20	2.8 visitors/vehicle for 2 one way tr	ips Max Visitor Daily Trips	14.3	14.3
Max Event	0	0	2.8 visitors/vehicle for 2 one way tri	ps Max Event Daily Trips	0.0	0.0
Gallons of Production	20,000		0.000018 truck trips	Production Daily Trips	0.4	0.4
Tons of Grape Haul#	125.0		0.013889 truck trips	Grape Haul Daily Trips	1.7	0.0
				Total Weekend Daily Trips	26	24
				Total Weekend Peak Hour Trips*	13	12
Aaximum Annual Traffic						
				Total Annual Trips**	9,175	

Net New Trips			Harvest	Non-Harvest
Maximum Weekday Traffic (Friday)				
If total net new daily trips is greater than 40, a TIS is required		Net New Weekday Daily Trips	15	15
	N	et New Weekday Peak Hour Trips*	6	5
Maximum Weekend Traffic (Saturday)	100 V 100			
If total net new daily trips is gre	ater than 40, a TIS is required	Net New Weekend Daily Trips	14	14
	N	et New Weekend Peak Hour Trips*	в	8
Maximum Annual Traffic	Impact Study is NOT Required			
A Tranic	impact study is NOT Required	Net New Annual Trips**	5,371	

#Trips associated with Grape Haul represent harvest season only.

*Weekday peak hour trips are calculated as 38% of daily trips associated with visitors and production plus one trip per employee. Weekend peak hour trips are calculated as 57% of daily trips associated with visitors and production plus one trip per employee.

**Annual trips represent a conservative calculation that assumes 11 weeks of harvest, all weekdays are Fridays, all weekends are Saturdays, and assumes that the largest event that occurs two or more times per month on average occurs every day.

Counts Unlimited, Inc. PO Box 1178 Corona, CA 92878 Phone: (951) 268-6268 email: counts@countsunlimited.com

CNP001 Site Code: 223-231029A

Start	10/27/23		bound	Hour		West			Totals		ed Totals
Time	Fri	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoor
12:00		1	49			6	47				
12:15		6	42			1	58				
12:30		6	37			4	45				
12:45		5	34	18	162		53	14	203	32	36
01:00		4	44	10	102	3 2 0	57	14	200	02	00
						2					
01:15		9	57			0	42				
01:30		5	39			2 4	46				
01:45		2	43	20	183	4	48	8	193	28	37
02:00		1	45			2	45				
02:15		2	42			0	73				
02:30		1	54			2	52				
02:45		3	54	7	195	1	71	5	241	12	43
03:00		2	52		100	4	73	0	2		
03:15		3	41				51				
						3					
03:30		2	63			3	73				
03:45		4	51	11	207	1	75	11	272	22	47
04:00		5	54			0	78				
04:15		4	52			2	90				
04:30		3	37			3	75				
				20	400	3		0	202	00	50
04:45		8	40	20	183	4	80	9	323	29	50
05:00		10	49			3 7	94				
05:15		7	43				62				
05:30		10	53			4	48				
05:45		10	44	37	189	12	59	26	263	63	45
06:00		16	55	-		5	44	-			
06:15		17	33			8	43				
		29				5					
06:30			32				47		4.04		
06:45		52	21	114	141	15	27	33	161	147	30
07:00		37	30			32	29				
07:15		32	18			20	20				
07:30		24	16			27	19				
07:45		35	23	128	87	31	14	110	82	238	16
08:00		50	22			40	14				
08:15		41	14			37	11				
08:30		51	14	405	00	42	10	100	10	0.45	
08:45		43	12	185	62	41	14	160	49	345	11
09:00		40	14			48	16				
09:15		52	10			40	13				
09:30		36	12			42	12				
09:45		35	15	163	51	48	15	178	56	341	10
10:00		49	16		0.	50	10			0.1	
		54									
10:15			15			29	17				
10:30		47	7			40	11				
10:45		41	7	191	45	38	12	157	50	348	g
11:00		34	12			52	12				
11:15		42	10			48	6				
11:30		49	10			39	11				
				400	20			400	24	0.40	-
11:45		35	6	160	38	49	5	188	34	348	7
Total		1054	1543	1054	1543	899	1927	899	1927	1953	347
ombined		25	97	259	7	282	26	282	26	54	23
Total		20	51	200		202	_0	202	20	04	20
AM Peak	-	10:00	-	-	-	11:00	-	-	-	-	
Vol.	-	191	-	-	-	188	-	-	-	-	
P.H.F.		0.884				0.904					
		0.004	02.20			0.904	04.15				
PM Peak	-		03:30	-	-	-	04:15	-	-	-	
Vol.	-	-	220	-	-	-	339	-	-	-	
P.H.F.			0.873				0.902				
ercentag		40.6%	59.4%			31.8%	68.2%				

Counts Unlimited, Inc. PO Box 1178 Corona, CA 92878 Phone: (951) 268-6268 email: counts@countsunlimited.com

CNP001 Site Code: 223-231029A

Start	10/28/23		ound	Hour ⁻			bound		Totals		ed Totals
Time	Sat	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon
12:00		8	43			7	50				
12:15		0	40			5	45				
12:30		13	37	04	100	4	47	40	400	40	0.40
12:45		3	43	24	163	0	41	16	183	40	346
01:00		0	49			3	51				
01:15		2	45			2	58				
01:30		3	57			5	58	40			
01:45		4	57	9	208	2	43	12	210	21	418
02:00		3	46			0	56				
02:15		2	36			4	50				
02:30		4	49	10		0	69	_		40	0.05
02:45		4	40	13	171	1	49	5	224	18	395
03:00		3	48			3	49				
03:15		1	60			1	34				
03:30		3	42	0	105	3	52	7	171	16	260
03:45 04:00		2 3	45 53	9	195	0 0	39 33	7	174	16	369
04.00 04:15		0	53 46			0					
04:13		2	40 51			1	56 49				
04:30		2	51	7	201	2	49 45	3	183	10	384
04.45		2	47	1	201	2	43	5	105	10	304
05:15		4	35			4	38				
05:30		4	38			6	33				
05:45		14	40	24	160	2	31	15	146	39	306
06:00		11	41	24	100	2	27	10	140	00	000
06:15		9	44			6	31				
06:30		9	35			5	28				
06:45		13	34	42	154	17	24	30	110	72	264
07:00		12	16			13	18				
07:15		14	20			15	16				
07:30		18	14			17	15				
07:45		13	13	57	63	10	12	55	61	112	124
08:00		14	19			28	12				
08:15		21	14			25	16				
08:30		22	17			26	9				
08:45		29	14	86	64	19	13	98	50	184	114
09:00		27	13			26	0				
09:15		25	16			26	8				
09:30		31	12			31	7				
09:45		26	8	109	49	32	10	115	25	224	74
10:00		33	14			41	7				
10:15		37	9			37	15				
10:30		33	8			38	11				
10:45		37	8	140	39	37	9	153	42	293	81
11:00		38	11			47	10				
11:15		22	4			45	15				
11:30		44	9			50	12				
11:45		36	9	140	33	47	7	189	44	329	77
Total		660	1500	660	1500	698	1452	698	1452	1358	2952
Combined		21	60	216	60	21	50	21	50	43	10
Total											
AM Peak	-	10:15	-	-	-	11:00	-	-	-	-	-
Vol.	-	145	-	-	-	189	-	-	-	-	-
P.H.F.		0.954	01.00			0.945	02.00				
PM Peak Vol.	-	-	01:00 208	-	-	-	02:00 224	-	-	-	-
P.H.F.	-	-	0.912	-	-	-	0.812	-	-	-	-
Г.П.Г.			0.912				0.012				
Percentag											
ercentag		30.6%	69.4%			32.5%	67.5%				
ADT/AADT		ADT 4,866	Α	ADT 4,866							
		,	,								

Counts Unlimited, Inc. PO Box 1178 Corona, CA 92878 Phone: (951) 268-6268 email: counts@countsunlimited.com

CNP001 Site Code: 223-231029B

Start	11/3/23	Eastb	ound	Hour	Totals	West	oound	Hour	Totals	Combine	ed Totals
Time	Fri	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon
12:00		5	41			7	37				
12:15		5	42			6	45				
12:30 12:45		2	36	15	150	4	43	18	164	22	222
01:00		3 2	40 45	15	159	1 6	39 51	18	164	33	323
01:00		6	43 53			2	49				
01:30		3	38			0	43 57				
01:45		0	32	11	168	2	45	10	202	21	370
02:00		5	47			1	47	-	_		
02:15		1	52			2	47				
02:30		0	56			4	55				
02:45		0	45	6	200	2	54	9	203	15	403
03:00		5	66			3	47				
03:15		0	70			2	72				
03:30		2	53			5	71				
03:45		4	43	11	232	0	82	10	272	21	504
04:00		2	47			2	83				
04:15 04:30		3	43			2	77 84				
04:30		8 3	47 41	16	178	1 4	64 51	9	295	25	473
04.45		12	41	10	170	4	70	9	295	25	475
05:15		4	41			5	61				
05:30		14	55			5	66				
05:45		10	42	40	187	3	46	17	243	57	430
06:00		10	37			11	45				
06:15		20	35			4	40				
06:30		32	36			7	27				
06:45		45	28	107	136	16	33	38	145	145	281
07:00		32	23			24	30				
07:15 07:30		33 32	23 18			25 22	31				
07:45		32	16	135	80	17	20 19	88	100	223	180
08:00		50	10	155	00	21	13	00	100	225	100
08:15		41	18			37	16				
08:30		36	5			32	17				
08:45		37	9	164	46	28	10	118	56	282	102
09:00		45	10			35	6				
09:15		40	11			43	11				
09:30		46	15			30	16				
09:45		42	11	173	47	55	11	163	44	336	91
10:00		52	8			47	10				
10:15		41	8			42	16				
10:30		38	12	150	20	57 58	16	20.4	40	262	07
10:45 11:00		27 39	10 5	158	38	52	7 13	204	49	362	87
11:15		43	6			35	3				
11:30		40	16			44	10				
11:45		33	7	155	34	51	10	182	36	337	70
Total		991	1505	991	1505	866	1809	866	1809	1857	3314
Combined		249		24	96	26		26	75	51	71
Total			50	24	30		75	20	75	51	/ 1
AM Peak	-	09:30	-	-	-	10:15	-	-	-	-	-
Vol.	-	181	-	-	-	209	-	-	-	-	-
P.H.F.		0.870	02.20			0.901 -	02.45				
PM Peak Vol.	-	-	02:30 237	-	-	-	03:45 326	-	-	-	-
P.H.F.	-	-	0.846	-	-	-	0.970	-	-	-	-
			0.040				0.070				
Percentag		20 70/	60.00/			20 40/	67 60/				
e		39.7%	60.3%			32.4%	67.6%				

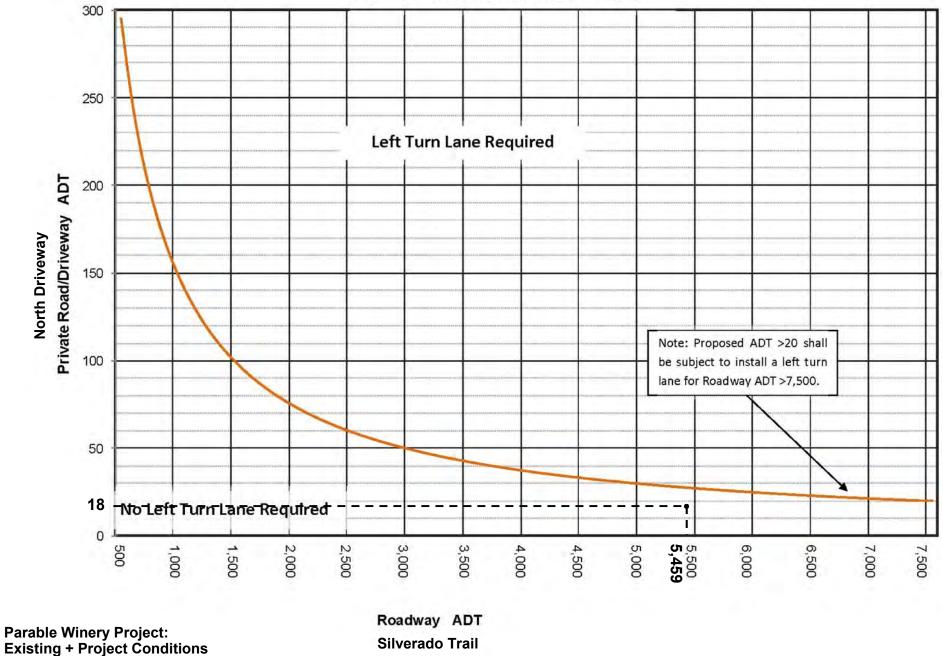
Counts Unlimited, Inc. PO Box 1178 Corona, CA 92878 Phone: (951) 268-6268 email: counts@countsunlimited.com

CNP001 Site Code: 223-231029B

Start	11/4/23	East	oound	Hour T	otals	West	bound	Hour	Totals	Combin	ed Totals
Time	Sat	Morning	Afternoon		Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoor
12:00		6	34			4	46			-	
12:15		6	37			6	44				
12:30		5	55			3	65				
12:45		6	53	23	179	1	49	14	204	37	38
01:00		3	59	20		5	40		201	01	00
01:15		0	38			2	44				
01:30		3	53			7	44				
01:45		5	36	11	186	0	42	14	173	25	35
		5 1		11	100			14	175	25	
02:00		-	46			2	54				
02:15		3	47			1	42				
02:30		1	54	0	400	3	38	0	470		05
02:45		1	35	6	182	2	36	8	170	14	35
03:00		1	41			2	59				
03:15		1	40			3	50				
03:30		1	40	_		2	49	_			
03:45		2	29	5	150	0	44	7	202	12	35
04:00		3	45			0	36				
04:15		1	36			2	45				
04:30		0	45			2 2	47				
04:45		3	57	7	183	2	43	6	171	13	35
05:00		2	42			3	42				
05:15		2	50			1	48				
05:30		1	36			4	39				
05:45		3	30	8	158	1	41	9	170	17	32
06:00		10	46			10	27				
06:15		9	28			3	19				
06:30		14	29			3	33				
06:45		16	26	49	129	12	23	28	102	77	23
07:00		7	22			14	16		=		
07:15		11	22			9	20				
07:30		12	21			6	13				
07:45		24	15	54	80	9	18	38	67	92	14
07:45		24	15	54	00	11	14	50	07	52	1-
08:15		12	7			17	10				
		22									
08:30			15	75	40	18	19	C O	50	407	4.0
08:45		15	12	75	49	16	9	62	52	137	10
09:00		37	7			24	2				
09:15		24	7			36	12				
09:30		29	4			25	14				
09:45		36	11	126	29	34	9	119	37	245	6
10:00		28	18			36	10				
10:15		41	13			37	10				
10:30		32	7			40	14				
10:45		36	7	137	45	43	11	156	45	293	g
11:00		37	13			43	6				
11:15		35	5			44	10				
11:30		39	8			39	4				
11:45		40	7	151	33	42	9	168	29	319	6
Total		652	1403	652	1403	629	1422	629	1422	1281	282
ombined											
Total		20	55	205	5	20	51	20	51	41	06
M Peak		11.00				10:30					
	-	11:00	-	-	-		-	-	-	-	
Vol.	-	151	-	-	-	170	-	-	-	-	
P.H.F.		0.944	00.00			0.966	10.00				
M Peak	-	-	00:30	-	-	-	12:00	-	-	-	
Vol.	-	-	205	-	-	-	204	-	-	-	
P.H.F.			0.869				0.785				
							00.00/				
ercentag e		31.7%	68.3%			30.7%	69.3%				

Parable Winery North Driveway

LEFT TURN LANE WARRANT GRAPH





A Tradition of Stewardship A Commitment to Service

Winery Name:

WINERY TRIP GENERATION WORKSHEET

Planning, Building & Environmental Services

1195 Third Street, Suite 210 Napa, CA 94559-3082 (707) 253-4417

PROJECT DESCRIPTION

Date Prepared:

Existing Entitled Winery		Harvest	Non-Harvest
	Weekday		
Number of Full Time Employees*	Weekend		
Number of Dort Time Craptores*	Weekday		
Number of Part Time Employees*	Weekend		
	Weekday		
Maximum Daily Visitation	Weekend		
Annual Gallons of Production			
Annual Tons of Grape Haul			N/A
Number of Visitors at the Largest Event that occurs two or more	Weekday		
times per month, on average	Weekend		

Proposed Winery		Harvest	Non-Harvest
Number of Full Time Frendersons	Weekday		
Number of Full Time Employees*	Weekend		
Number of Dort Time Freedowees*	Weekday		
Number of Part Time Employees*	Weekend		
Maximum Daily Visitatian	Weekday		
Maximum Daily Visitation * Limited to 3 Vehicles	Weekend		
Annual Gallons of Production			
Annual Tons of Grape Haul			N/A
Number of Visitors at the Largest Event that occurs two or more	Weekday		
times per month, on average	ore		

*Number of full time and part time employees should represent the max number of employees that will be working on any given day (including all vendors and contractors employed for the largest event that occurs two or more times per month on average).

TRIP GENERATION

Existing Winery			Harvest	Non-Harvest
Maximum Daily Weekday Traffic (Friday)				
Harvest Non-Harvest				
FT Employees PT Employees	3.05 one way trips/employee 1.9 one way trips/employee	FT Employee Daily Trips PT Employee Daily Trips		
Max Visitors Max Event	2.6 visitors/vehicle for 2 one way trip 2.6 visitors/vehicle for 2 one way trip			
Gallons of Production Tons of Grape Haul#	0.000018 truck trips 0.013889 truck trips	Production Daily Trips Grape Haul Daily Trips		
	Γ	Total Weekday Daily Trips Total Weekday Peak Hour Trips*		
Maximum Daily Weekend Traffic (Saturday)				
Harvest Non-Harvest				
FT Employees PT Employees	3.05 one way trips/employee 1.9 one way trips/employee	FT Employee Daily Trips PT Employee Daily Trips		
Max Visitors Max Event	2.8 visitors/vehicle for 2 one way trip 2.8 visitors/vehicle for 2 one way trip			
Gallons of Production Tons of Grape Haul#	0.000018 truck trips 0.013889 truck trips	Production Daily Trips Grape Haul Daily Trips		
		Total Weekend Daily Trips Total Weekend Peak Hour Trips*		
Maximum Annual Traffic				
		Total Annual Trips**		
		Total Annual Trips		
Proposed Winery			Harvest	Non-Harvest
• •			Harvest	Non-Harvest
Maximum Daily Weekday Traffic (Friday)			Harvest	Non-Harvest
• •	3.05 one way trips/employee 1.9 one way trips/employee	FT Employee Daily Trips PT Employee Daily Trips	Harvest	Non-Harvest
Maximum Daily Weekday Traffic (Friday) Harvest Non-Harvest FT Employees PT Employees Max Visitors		PT Employee Daily Trips Max Visitor Daily Trips	Harvest	Non-Harvest
Maximum Daily Weekday Traffic (Friday) Harvest <u>Non-Harvest</u> FT Employees PT Employees Max Visitors	1.9 one way trips/employee 2.6 visitors/vehicle for <u>2 one way trip</u>	PT Employee Daily Trips Max Visitor Daily Trips	Harvest	Non-Harvest
Maximum Daily Weekday Traffic (Friday) Harvest Non-Harvest FT Employees Max Visitors Max Event * Limited to 3 Vehicles Gallons of Production	 1.9 one way trips/employee 2.6 visitors/vehicle for <u>2 one way trip</u> <u>2.6 visitors/vehicle</u> for 2 one way trip 0.000018 truck trips 	PT Employee Daily Trips ps Max Visitor Daily Trips Max Event Daily Trips Production Daily Trips	Harvest	Non-Harvest
Maximum Daily Weekday Traffic (Friday) Harvest Non-Harvest FT Employees Max Visitors Max Event * Limited to 3 Vehicles Gallons of Production Tons of Grape Haul#	1.9 one way trips/employee 2.6 visitors/vehicle <u>for 2 one way trip</u> 2.6 visitors/vehicle for 2 one way trip 0.000018 truck trips 0.013889 truck trips	PT Employee Daily Trips ps Max Visitor Daily Trips Max Event Daily Trips Max Event Daily Trips Production Daily Trips Grape Haul Daily Trips	Harvest	Non-Harvest
Maximum Daily Weekday Traffic (Friday) Harvest Non-Harvest FT Employees Max Visitors Max Event * Limited to 3 Vehicles Gallons of Production Tons of Grape Haul#	1.9 one way trips/employee 2.6 visitors/vehicle <u>for 2 one way trip</u> 2.6 visitors/vehicle for 2 one way trip 0.000018 truck trips 0.013889 truck trips	PT Employee Daily Trips Max Visitor Daily Trips Max Event Daily Trips Max Event Daily Trips Production Daily Trips Grape Haul Daily Trips Total Weekday Daily Trips	Harvest	Non-Harves
Maximum Daily Weekday Traffic (Friday) Harvest Non-Harvest FT Employees Nav Sistors Max Visitors Max Event Max Event * Limited to 3 Vehicles Gallons of Production Tons of Grape Haul# Maximum Daily Weekend Traffic (Saturday) Harvest Maximum Daily Weekend Traffic (Saturday)	1.9 one way trips/employee 2.6 visitors/vehicle <u>for 2 one way trip</u> 2.6 visitors/vehicle for 2 one way trip 0.000018 truck trips 0.013889 truck trips	PT Employee Daily Trips Max Visitor Daily Trips Max Visitor Daily Trips Max Event Daily Trips Production Daily Trips Grape Haul Daily Trips Total Weekday Daily Trips Total Weekday Peak Hour Trips*	Harvest	Non-Harvest
Maximum Daily Weekday Traffic (Friday) Harvest Non-Harvest FT Employees Non-Harvest Max Visitors Max Event * Limited to 3 Vehicles Gallons of Production Tons of Grape Haul# Maximum Daily Weekend Traffic (Saturday) Harvest Maximum Daily Weekend Traffic (Saturday) FT Employees	1.9 one way trips/employee 2.6 visitors/vehicle <u>for 2 one way trip</u> 2.6 visitors/vehicle for 2 one way trip 0.000018 truck trips 0.013889 truck trips	PT Employee Daily Trips Max Visitor Daily Trips Max Event Daily Trips Max Event Daily Trips Production Daily Trips Grape Haul Daily Trips Total Weekday Daily Trips	Harvest	Non-Harvest
Maximum Daily Weekday Traffic (Friday) Harvest Non-Harvest FT Employees Nave State Max Visitors * Limited to 3 Vehicles Gallons of Production Tons of Grape Haul# Maximum Daily Weekend Traffic (Saturday)	1.9 one way trips/employee 2.6 visitors/vehicle <u>for 2 one way trip</u> 2. 6 visitors/vehicle for 2 one way trip 0.000018 truck trips 0.013889 truck trips 3.05 one way trips/employee	PT Employee Daily Trips Max Visitor Daily Trips Max Event Daily Trips Production Daily Trips Grape Haul Daily Trips Total Weekday Daily Trips Total Weekday Peak Hour Trips* FT Employee Daily Trips PT Employee Daily Trips PT Employee Daily Trips Max Visitor Daily Trips	Harvest	Non-Harvest
Maximum Daily Weekday Traffic (Friday) Harvest Non-Harvest FT Employees Max Visitors Max Event * Limited to 3 Vehicles Gallons of Production Tons of Grape Haul# Maximum Daily Weekend Traffic (Saturday) Harvest FT Employees Non-Harvest FT Employees Non-Harvest Maximum Daily Weekend Traffic (Saturday) Harvest Maximum Daily Weekend Traffic (Saturday) Maximum Daily Weekend Traffic (Saturday) Maximum Daily Weekend Traffic (Saturday) Max Visitors	 1.9 one way trips/employee 2.6 visitors/vehicle for 2 one way trip 2.6 visitors/vehicle for 2 one way trip 0.000018 truck trips 0.013889 truck trips 3.05 one way trips/employee 1.9 one way trips/employee 2.8 visitors/vehicle for 2 one way trip 	PT Employee Daily Trips Max Visitor Daily Trips Max Event Daily Trips Production Daily Trips Grape Haul Daily Trips Total Weekday Daily Trips Total Weekday Peak Hour Trips* FT Employee Daily Trips PT Employee Daily Trips PT Employee Daily Trips Max Visitor Daily Trips	Harvest	Non-Harvest
Maximum Daily Weekday Traffic (Friday) Harvest Non-Harvest FT Employees Max Visitors Max Visitors * Limited to 3 Vehicles Gallons of Production Tons of Grape Haul# Maximum Daily Weekend Traffic (Saturday) Harvest Maximum Daily Weekend Traffic (Saturday) FT Employees PT Employees Max Visitors Max Visitors Max Visitors Max Event * Limited to 3 Vehicles Gallons of Production	 1.9 one way trips/employee 2.6 visitors/vehicle for 2 one way trip 2.6 visitors/vehicle for 2 one way trip 0.000018 truck trips 0.013889 truck trips 3.05 one way trips/employee 1.9 one way trips/employee 2.8 visitors/vehicle for 2 one way trip 2.8 visitors/vehicle for 2 one way trip 0.000018 truck trips 0.000018 truck trips 0.013889 truck trips 	PT Employee Daily Trips Max Visitor Daily Trips Max Event Daily Trips Production Daily Trips Grape Haul Daily Trips Total Weekday Daily Trips Total Weekday Peak Hour Trips* FT Employee Daily Trips PT Employee Daily Trips PT Employee Daily Trips Max Visitor Daily Trips Max Event Daily Trips Production Daily Trips	Harvest	Non-Harvest

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Total Annual	Trips**
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Net New Trips		Harvest	Non-Harvest
Maximum Weekday Traffic (Friday)			
If total net new daily trips is greater than 40, a TIS is required	Net New Weekday Daily Trips Net New Weekday Peak Hour Trips*		
Maximum Weekend Traffic (Saturday)			
If total net new daily trips is greater than 40, a TIS is required	Net New Weekend Daily Trips Net New Weekend Peak Hour Trips*		
Maximum Annual Traffic			
	Net New Annual Trips**		

#Trips associated with Grape Haul represent harvest season only.

*Weekday peak hour trips are calculated as 38% of daily trips associated with visitors and production plus one trip per employee. Weekend peak hour trips are calculated as 57% of daily trips associated with visitors and production plus one trip per employee.

**Annual trips represent a conservative calculation that assumes 11 weeks of harvest, all weekdays are Fridays, all weekends are Saturdays, and assumes that the largest event that occurs two or more times per month on average occurs every day.



A Tradition of Stewardship A Commitment to Service

Winery Name:

WINERY TRIP GENERATION WORKSHEET

Planning, Building & Environmental Services

1195 Third Street, Suite 210 Napa, CA 94559-3082 (707) 253-4417

PROJECT DESCRIPTION

Date Prepared:

Existing Entitled Winery		Harvest	Non-Harvest
	Weekday		
Number of Full Time Employees*	Weekend		
Number of Doub Times Freedouses*	Weekday		
Number of Part Time Employees*	Weekend		
Mauinaum Dailu Visitatian	Weekday		
Maximum Daily Visitation	Weekend		
Annual Gallons of Production			
Annual Tons of Grape Haul			N/A
Number of Visitors at the Largest Event that occurs two or more	Weekday		
times per month, on average	Weekend		

Proposed Winery		Harvest	Non-Harvest
Number of Full Time Frederics *	Weekday		
Number of Full Time Employees*	Weekend		
Number of Dart Time Employees*	Weekday		
Number of Part Time Employees*	Weekend		
Maximum Daily Visitation	Weekday		
Maximum Daily Visitation	Weekend		
Annual Gallons of Production			
Annual Tons of Grape Haul			N/A
Number of Visitors at the Largest Event that occurs two or more	Weekday		
times per month, on average	Weekend		

*Number of full time and part time employees should represent the max number of employees that will be working on any given day (including all vendors and contractors employed for the largest event that occurs two or more times per month on average).

TRIP GENERATION

Existing Winery	/				Harvest	Non-Harvest
Maximum Daily Weekday	Traffic (Frida	<u>(ער)</u>				
FT Employees PT Employees	<u>Harvest</u>	<u>Non-Harvest</u>	3.05 one way trips/employee 1.9 one way trips/employee	FT Employee Daily Trips PT Employee Daily Trips		
Max Visitors Max Event			2.6 visitors/vehicle for 2 one way t 2.6 visitors/vehicle for 2 one way t			
Gallons of Production Tons of Grape Haul#			0.000018 truck trips 0.013889 truck trips	Production Daily Trips Grape Haul Daily Trips		
				Total Weekday Daily Trips Total Weekday Peak Hour Trips*		
Maximum Daily Weekena	Traffic (Satu	rday)				
FT Employees PT Employees	<u>Harvest</u>	<u>Non-Harvest</u>	3.05 one way trips/employee 1.9 one way trips/employee	FT Employee Daily Trips PT Employee Daily Trips		
Max Visitors Max Event			2.8 visitors/vehicle for 2 one way t 2.8 visitors/vehicle for 2 one way t			
Gallons of Production Tons of Grape Haul#			0.000018 truck trips 0.013889 truck trips	Production Daily Trips Grape Haul Daily Trips		
				Total Weekend Daily Trips Total Weekend Peak Hour Trips*		
Maximum Annual Traffic						-
				Total Annual Trips**		
D					•• •	
Proposed Wine	ery				Harvest	Non-Harvest

•	•				
Maximum Daily Weekday	Traffic (Frida	<u>(v)</u>			
FT Employees PT Employees	<u>Harvest</u>	<u>Non-Harvest</u>	3.05 one way trips/employee 1.9 one way trips/employee	FT Employee Daily Trips PT Employee Daily Trips	
Max Visitors Max Event			2.6 visitors/vehicle for 2 one way t 2.6 visitors/vehicle for 2 one way t		
Gallons of Production Tons of Grape Haul#			0.000018 truck trips 0.013889 truck trips	Production Daily Trips Grape Haul Daily Trips	
				Total Weekday Daily Trips Total Weekday Peak Hour Trips*	
Maximum Daily Weekend	Traffic (Satu	rday)			
FT Employees PT Employees	<u>Harvest</u>	<u>Non-Harvest</u>	3.05 one way trips/employee 1.9 one way trips/employee	FT Employee Daily Trips PT Employee Daily Trips	
Max Visitors Max Event			2.8 visitors/vehicle for 2 one way 2.8 visitors/vehicle for 2 one way t		
Gallons of Production Tons of Grape Haul#			0.000018 truck trips 0.013889 truck trips	Production Daily Trips Grape Haul Daily Trips	
				Total Weekend Daily Trips Total Weekend Peak Hour Trips*	
Maximum Annual Traffic					
				Total Annual Trips**	

Net New Trips		Harvest	Non-Harvest
Maximum Weekday Traffic (Friday)			
If total net new daily trips is greater than 40, a TIS is required Net New Weekday Daily Net New Weekday Peak Hour			
Maximum Weekend Traffic (Saturday)			
If total net new daily trips is greater than 40, a TIS is required Net New Weekend Daily Net New Weekend Peak Hour			
Maximum Annual Traffic			
Net New Annual	rips**		

#Trips associated with Grape Haul represent harvest season only.

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**Annual trips represent a conservative calculation that assumes 11 weeks of harvest, all weekdays are Fridays, all weekends are Saturdays, and assumes that the largest event that occurs two or more times per month on average occurs every day.