

ENVIRONMENT | PLANNING | DEVELOPMENT SOLUTIONS, INC.

To: Emily Neudecker
From: Alex J, Garber
Date: 3/5/2021
Re: VMT Screening Analysis for the Temecula Winery Project

This technical memorandum presents a screening analysis of the Vehicle Miles Traveled (VMT) for the proposed Temecula Winery Project, located south of Rancho California Road at Encantado in the City of Temecula.

The purpose of this analysis is to determine whether a VMT Analysis would be required for the project. The project proposes the construction of a 13,400 SF Winery with a restaurant and a Hotel with 10 rooms. The project site is vacant except for a 2,200sf residence, which will remain on-site and be used as a bridal preparation area for the event facility. The project site plan is shown in Figure 1.

Vehicle Miles Traveled

Senate Bill (SB) 743 was signed by Governor Brown in 2013 and required the Governor's Office of Planning and Research (OPR) to amend the CEQA Guidelines to provide an alternative to LOS for evaluating Transportation impacts. SB 743 specified that the new criteria should promote the reduction of greenhouse gas emissions, the development of multimodal transportation networks and a diversity of land uses. The bill also specified that delay-based level of service could no longer be considered an indicator of a significant impact on the environment. In response, Section 15064.3 was added to the CEQA Guidelines beginning January 1, 2019. Section 15064.3 - Determining the Significance of Transportation Impacts states that Vehicle Miles Traveled (VMT) is the most appropriate measure of transportation impacts and provides lead agencies with the discretion to choose the most appropriate methodology and thresholds for evaluating VMT. Section 15064.3(c) states that the provisions of the section shall apply statewide beginning on July 1, 2020.

The County of Riverside Transportation Department's *Transportation Analysis Guidelines for Level of Service Vehicle Miles Traveled*, which were adopted in December 2020, were used. The County's guidelines Figure 3 contain the following screening thresholds to assess whether further VMT analysis is required.

1. Small Projects: This applies to projects with low trip generation (110 trips per day), or projects that have GHG emissions that are less than 3,000 metric tons of Carbon Dioxide Equivalent (MTCO_{2e}).
2. Projects Near High Quality Transit: Projects which are located within a Transit Priority Area (TPA) are presumed to have a less than significant impact on VMT and therefore would not need to prepare a full VMT analysis.
3. Local Serving Retail: Retail that does not exceed 50,000sf
4. Affordable Housing: Residential Projects that have a high percentage of affordable housing.
5. Local Essential Services: Projects that include Day Care, Public School, and Police or Fire facilities.
6. Map Based Screening: Areas of development that is under threshold as shown on a screening map.
7. Redevelopment projects: Projects that replace existing land uses with an existing VMT that is higher than the propose project.

The project does not meet thresholds 2-7 and would generate more than 110 daily trips, so a GHG analysis was prepared using the California Emissions Estimator Model (CalEEMod) land use emission model. Appendix G of the County's guidelines contain the methodology for analyzing a project using the GHG threshold. The following analysis assumptions are outlined in Appendix G:

- Institute of Transportation Engineers (ITE) 10th Edition rates used over the CalEEMod default 9th Edition Rates
- Rural trip lengths used over urban trip lengths
- CARB's Emissions Factor Model (EMFAC) 2017 mobile sources used over the CalEEMod default EMFAC 2014
- Carbon intensity factor adjusted to the Southern California Edison (SCE) current emission rate
- Energy savings from water conservation were not used
- Building Energy Efficiency Standards set in place January 1, 2020 were not used to be conservative

The analysis follows these county guidelines except that the ITE trip rates for Winery were not used. Instead, the trip generation analysis utilized the trip rates from the *Riverside County Wine Country Model Development Memo* for the Winery Trip Generation. Table 1 shows the trip generation used for the project to remain consistent with the project's Transportation Impact Analysis for Level of Service.

Table 1: Trip Generation

			Weekday							Weekend				
				AM Peak Hour				PM Peak Hour				Peak Hr of Generator		
Land Use	Units		Daily	In	Out	Total	In	Out	Total	Daily	In	Out	Total	
<u>Trip Rates</u>														
Winery ¹	TSF		45.96	1.48	0.63	2.12	3.74	3.74	7.47	80.73	6.67	7.83	14.51	
Hotel ²	Rooms		8.360	0.28	0.19	0.47	0.31	0.29	0.60	8.360	0.28	0.19	0.47	
<u>Project Trip Generation</u>														
Winery ¹	13.4	TSF	630	20	9	28	50	50	100	1060	90	105	195	
<i>Internal Capture³</i>			-3	0	0	0	0	-1	-1	-5	0	-1	-1	
Hotel ²	10	Rooms	84	3	2	5	3	3	6	84	3	2	5	
<i>Internal Capture⁴</i>			-7	0	0	0	-1	0	-1	-14	-1	0	-1	
Net Trip Generation			704	23	10	33	52	52	104	1125	91	106	197	

TSF = Thousand Square Feet

¹ Trip generation from the *Riverside County Wine Country Model Development Memo*, Fehr and Peers, 2011. The 13.4-acre winery would be considered a "medium" winery (between 10 and 40 acres). Per Appendix B of the memo, medium wineries generate 630 weekday and 1060 weekend trips. Peak hours were determined using the peak/daily ratio from the Institute of Transportation Engineers, *Trip Generation, 10th Edition*, 2017, Land Use Code 970 - Winery. Trip rates derived from trip generation.

² Trip rates from the Institute of Transportation Engineers, *Trip Generation, 10th Edition*, 2017, Land Use Code 310-Hotel

³ Internal Capture

Weekday: 0.5% Daily, 0% AM Inbound, 0% AM Outbound, 0% PM Inbound, 2% PM Outbound
Weekend: 0.5% Daily, 0% Inbound, 1% Outbound

⁴ Internal Capture

Weekday: 8.25% Daily, 0% AM Inbound, 0% AM Outbound, 33% PM Inbound, 0% PM Outbound
Weekend: 16.5% Daily, 33% Inbound, 0% Outbound

Note:

Internal capture percentage assumed for Daily trips was obtained from an average of AM and PM peak hour internal trip capture percentages. Peak hour internal capture rates were obtained from NCHRP Report 684 Internal Capture Estimator.

Table 2 below shows the annual MTCO₂e generated by the project. As seen in Table 2, the project generates 2,763 MTCO₂e annually, less than the 3,000 MTCO₂e screening threshold. Therefore, the

project would be screened out and would not require further VMT analysis. The CalEEMod sheets can be found attached.

Table 2: Project's GHG Emissions

Activity	Annual GHG Emissions (MTCO ₂ e)
Project Operational Emissions	
Area	0
Energy	172
Auto Mobil	1,602
Waste	12
Water	64
Total Project Gross Operation Emissions	1,849
Significance Threshold	3,000
Threshold Exceeded?	No

If you have any questions about this analysis, please contact me at (949) 316-4521 or at alex@epdsolutions.com.

KEYNOTES

GENERAL NOTES

ARCHITECTURAL LEGEND

NOTES

ARCHITECTURAL SITE PLAN

Teme Winery
41325 CALLE ENCANTADO
TEMECULA, CA 92592

ARCHITECTURAL SITE PLAN

AC-1

CalEEMod Operational Analysis Sheets

Temecula Winery - Riverside-South Coast County, Annual

Temecula Winery
Riverside-South Coast County, Annual

1.0 Project Characteristics**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	13.41	1000sqft	0.31	13,410.00	0
Other Asphalt Surfaces	1.00	Acre	1.00	43,560.00	0
Other Non-Asphalt Surfaces	0.50	Acre	0.50	21,780.00	0
Parking Lot	129.00	Space	1.16	51,600.00	0
City Park	15.10	Acre	15.10	657,756.00	0
Hotel	10.00	Room	0.33	14,520.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.4	Precipitation Freq (Days)	28
Climate Zone	10			Operational Year	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	532.57	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

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Project Characteristics - Used 2020-2029 SCE CO2 Intensity Factor.

Land Use -

Off-road Equipment -

Vehicle Trips - Used Rates from Trip Generation (EPD Solutions, 2021)

Vehicle Emission Factors - Used EMFAC2017 Emission Factors.

Vehicle Emission Factors -

Vehicle Emission Factors -

Energy Use -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	0.00
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tblVehicleEF	HHD	0.04	0.04
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tblVehicleEF	LDA	3.3240e-003	2.4030e-003
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tblVehicleEF	LDA	0.51	0.63
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tblVehicleEF	LDT1	2.73	2.19
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tblVehicleEF	LDT2	330.23	324.20
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tblVehicleEF	LHD1	2.14	1.03
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tblVehicleEF	LHD1	0.02	0.03
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tblVehicleEF	LHD2	0.01	0.02
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tblVehicleEF	MCY	3.0870e-003	2.8890e-003

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tblVehicleEF	MCY	1.69	1.18
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tblVehicleEF	MCY	0.92	0.70
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tblVehicleEF	MDV	2.62	2.91
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tblVehicleEF	MDV	2.1870e-003	1.7380e-003
tblVehicleEF	MDV	0.11	0.09

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tblVehicleEF	MDV	0.19	0.14
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.11	0.42
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tblVehicleEF	MDV	0.11	0.09
tblVehicleEF	MDV	0.19	0.14
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.42
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tblVehicleEF	MH	0.04	0.02
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tblVehicleEF	MH	1.38	0.81
tblVehicleEF	MH	0.08	0.05
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tblVehicleEF	MH	0.31	0.09
tblVehicleEF	MH	9.8680e-003	0.01
tblVehicleEF	MH	6.6300e-004	1.8100e-004
tblVehicleEF	MH	1.38	0.81
tblVehicleEF	MH	0.08	0.05
tblVehicleEF	MH	0.49	0.33
tblVehicleEF	MH	0.10	0.07
tblVehicleEF	MH	0.02	1.25
tblVehicleEF	MH	0.34	0.10
tblVehicleEF	MHD	0.02	4.1870e-003
tblVehicleEF	MHD	2.5650e-003	1.7190e-003
tblVehicleEF	MHD	0.05	0.01
tblVehicleEF	MHD	0.32	0.38
tblVehicleEF	MHD	0.21	0.23
tblVehicleEF	MHD	5.07	1.22
tblVehicleEF	MHD	148.43	62.21
tblVehicleEF	MHD	1,056.49	1,004.76
tblVehicleEF	MHD	54.56	11.21
tblVehicleEF	MHD	0.41	0.33
tblVehicleEF	MHD	0.47	1.02
tblVehicleEF	MHD	11.43	1.61
tblVehicleEF	MHD	1.3500e-004	3.0500e-004

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tblVehicleEF	MHD	2.6660e-003	6.4990e-003
tblVehicleEF	MHD	7.3000e-004	1.1900e-004
tblVehicleEF	MHD	1.2900e-004	2.9200e-004
tblVehicleEF	MHD	2.5470e-003	6.2130e-003
tblVehicleEF	MHD	6.7100e-004	1.1000e-004
tblVehicleEF	MHD	1.5020e-003	5.6700e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	7.6500e-004	3.6600e-004
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	0.02	0.12
tblVehicleEF	MHD	0.31	0.06
tblVehicleEF	MHD	1.4270e-003	5.9100e-004
tblVehicleEF	MHD	0.01	9.5990e-003
tblVehicleEF	MHD	6.3400e-004	1.1100e-004
tblVehicleEF	MHD	1.5020e-003	5.6700e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	7.6500e-004	3.6600e-004
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	0.02	0.12
tblVehicleEF	MHD	0.34	0.06
tblVehicleEF	OBUS	0.01	8.4140e-003
tblVehicleEF	OBUS	5.6790e-003	4.9310e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.25	0.59
tblVehicleEF	OBUS	0.39	0.61

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tblVehicleEF	OBUS	5.52	2.35
tblVehicleEF	OBUS	68.59	85.06
tblVehicleEF	OBUS	1,085.33	1,354.30
tblVehicleEF	OBUS	69.49	19.34
tblVehicleEF	OBUS	0.13	0.33
tblVehicleEF	OBUS	0.35	1.09
tblVehicleEF	OBUS	2.07	0.81
tblVehicleEF	OBUS	1.2000e-005	1.1000e-004
tblVehicleEF	OBUS	1.9500e-003	6.9820e-003
tblVehicleEF	OBUS	8.7100e-004	2.0100e-004
tblVehicleEF	OBUS	1.1000e-005	1.0500e-004
tblVehicleEF	OBUS	1.8490e-003	6.6650e-003
tblVehicleEF	OBUS	8.0000e-004	1.8500e-004
tblVehicleEF	OBUS	2.0910e-003	1.9410e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	9.0600e-004	9.7600e-004
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.26
tblVehicleEF	OBUS	0.34	0.11
tblVehicleEF	OBUS	6.6700e-004	8.1000e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9200e-004	1.9100e-004
tblVehicleEF	OBUS	2.0910e-003	1.9410e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.07
tblVehicleEF	OBUS	9.0600e-004	9.7600e-004

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tblVehicleEF	OBUS	0.03	0.04
tblVehicleEF	OBUS	0.05	0.26
tblVehicleEF	OBUS	0.38	0.12
tblVehicleEF	SBUS	0.82	0.08
tblVehicleEF	SBUS	9.5650e-003	7.3520e-003
tblVehicleEF	SBUS	0.06	7.1570e-003
tblVehicleEF	SBUS	7.84	3.08
tblVehicleEF	SBUS	0.57	0.63
tblVehicleEF	SBUS	6.44	0.97
tblVehicleEF	SBUS	1,128.57	355.73
tblVehicleEF	SBUS	1,093.03	1,090.53
tblVehicleEF	SBUS	55.12	5.96
tblVehicleEF	SBUS	8.81	3.22
tblVehicleEF	SBUS	3.97	4.67
tblVehicleEF	SBUS	12.20	0.88
tblVehicleEF	SBUS	8.4250e-003	3.8770e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	5.0000e-004	5.7000e-005
tblVehicleEF	SBUS	8.0610e-003	3.7100e-003
tblVehicleEF	SBUS	2.6870e-003	2.6530e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.6000e-004	5.3000e-005
tblVehicleEF	SBUS	5.0680e-003	1.1450e-003
tblVehicleEF	SBUS	0.03	9.4720e-003
tblVehicleEF	SBUS	0.93	0.36
tblVehicleEF	SBUS	2.4310e-003	6.0400e-004

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tblVehicleEF	SBUS	0.10	0.09
tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.36	0.04
tblVehicleEF	SBUS	0.01	3.3970e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.6300e-004	5.9000e-005
tblVehicleEF	SBUS	5.0680e-003	1.1450e-003
tblVehicleEF	SBUS	0.03	9.4720e-003
tblVehicleEF	SBUS	1.34	0.51
tblVehicleEF	SBUS	2.4310e-003	6.0400e-004
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.39	0.05
tblVehicleEF	UBUS	1.36	5.43
tblVehicleEF	UBUS	0.08	0.01
tblVehicleEF	UBUS	7.52	42.26
tblVehicleEF	UBUS	13.83	0.94
tblVehicleEF	UBUS	1,788.21	1,941.29
tblVehicleEF	UBUS	153.17	11.07
tblVehicleEF	UBUS	3.79	0.44
tblVehicleEF	UBUS	12.24	0.10
tblVehicleEF	UBUS	0.49	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.04	3.1130e-003
tblVehicleEF	UBUS	1.4880e-003	8.7000e-005
tblVehicleEF	UBUS	0.21	0.03
tblVehicleEF	UBUS	3.0000e-003	7.5900e-003

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tblVehicleEF	UBUS	0.04	2.9720e-003
tblVehicleEF	UBUS	1.3680e-003	8.0000e-005
tblVehicleEF	UBUS	9.0420e-003	6.9500e-004
tblVehicleEF	UBUS	0.10	8.3420e-003
tblVehicleEF	UBUS	4.5390e-003	5.1600e-004
tblVehicleEF	UBUS	0.42	0.08
tblVehicleEF	UBUS	0.02	0.05
tblVehicleEF	UBUS	1.09	0.06
tblVehicleEF	UBUS	9.5090e-003	2.2020e-003
tblVehicleEF	UBUS	1.7820e-003	1.1000e-004
tblVehicleEF	UBUS	9.0420e-003	6.9500e-004
tblVehicleEF	UBUS	0.10	8.3420e-003
tblVehicleEF	UBUS	4.5390e-003	5.1600e-004
tblVehicleEF	UBUS	1.82	5.55
tblVehicleEF	UBUS	0.02	0.05
tblVehicleEF	UBUS	1.19	0.06
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	1.32	80.73
tblVehicleTrips	ST_TR	8.19	8.36
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	0.68	80.73
tblVehicleTrips	SU_TR	5.95	8.36
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	6.97	45.96
tblVehicleTrips	WD_TR	8.17	8.36

2.0 Emissions Summary

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2.1 Overall Construction

Unmitigated Construction

[illegible]

Mitigated Construction

[illegible][illegible]

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1294	2.0000e-005	2.1600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.1900e-003	4.1900e-003	1.0000e-005	0.0000	4.4700e-003
Energy	7.0500e-003	0.0641	0.0538	3.8000e-004		4.8700e-003	4.8700e-003		4.8700e-003	4.8700e-003	0.0000	170.6193	170.6193	6.8300e-003	2.4200e-003	171.5098
Mobile	0.3641	1.4235	4.6167	0.0170	1.5216	0.0149	1.5364	0.4073	0.0140	0.4212	0.0000	1,599.5157	1,599.5157	0.0804	0.0000	1,601.5268
Waste						0.0000	0.0000		0.0000	0.0000	4.7500	0.0000	4.7500	0.2807	0.0000	11.7679
Water						0.0000	0.0000		0.0000	0.0000	1.0643	58.9138	59.9781	0.1125	3.2400e-003	63.7581
Total	0.5006	1.4876	4.6727	0.0173	1.5216	0.0197	1.5413	0.4073	0.0188	0.4261	5.8143	1,829.0530	1,834.8673	0.4805	5.6600e-003	1,848.5671

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2.2 Overall Operational**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1294	2.0000e-005	2.1600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.1900e-003	4.1900e-003	1.0000e-005	0.0000	4.4700e-003
Energy	7.0500e-003	0.0641	0.0538	3.8000e-004		4.8700e-003	4.8700e-003		4.8700e-003	4.8700e-003	0.0000	170.6193	170.6193	6.8300e-003	2.4200e-003	171.5098
Mobile	0.3641	1.4235	4.6167	0.0170	1.5216	0.0149	1.5364	0.4073	0.0140	0.4212	0.0000	1,599.5157	1,599.5157	0.0804	0.0000	1,601.5268
Waste						0.0000	0.0000		0.0000	0.0000	4.7500	0.0000	4.7500	0.2807	0.0000	11.7679
Water						0.0000	0.0000		0.0000	0.0000	1.0643	58.9138	59.9781	0.1125	3.2400e-003	63.7581
Total	0.5006	1.4876	4.6727	0.0173	1.5216	0.0197	1.5413	0.4073	0.0188	0.4261	5.8143	1,829.0530	1,834.8673	0.4805	5.6600e-003	1,848.5671

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Operation Only	Site Preparation	3/18/2021	3/17/2021	5	0	

Acres of Grading (Site Preparation Phase): 0

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Acres of Grading (Grading Phase): 0**Acres of Paving: 2.66****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)****OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Cranes	1	4.00	226	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Site Preparation	Graders	1	8.00	174	0.41
Paving	Pavers	1	7.00	125	0.42
Paving	Rollers	1	7.00	80	0.38
Demolition	Rubber Tired Dozers	1	1.00	255	0.40
Grading	Rubber Tired Dozers	1	1.00	255	0.40
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37

Trips and VMT

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Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Operation Only			0.00	0.00	19.80	7.90				

3.1 Mitigation Measures Construction

3.2 Operation Only - 2021

Unmitigated Construction On-Site

[illegible]

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3.2 Operation Only - 2021

Unmitigated Construction Off-Site

[illegible]

Mitigated Construction On-Site

[illegible]

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3.2 Operation Only - 2021**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.0 Operational Detail - Mobile**4.1 Mitigation Measures Mobile**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.3641	1.4235	4.6167	0.0170	1.5216	0.0149	1.5364	0.4073	0.0140	0.4212	0.0000	1,599.5157	1,599.5157	0.0804	0.0000	1,601.5268
Unmitigated	0.3641	1.4235	4.6167	0.0170	1.5216	0.0149	1.5364	0.4073	0.0140	0.4212	0.0000	1,599.5157	1,599.5157	0.0804	0.0000	1,601.5268

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
General Light Industry	616.32	1,082.59	1082.59	3,758,560	3,758,560
Hotel	83.60	83.60	83.60	232,468	232,468
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	699.92	1,166.19	1,166.19	3,991,028	3,991,028

4.3 Trip Type Information

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	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	18.50	10.10	7.90	33.00	48.00	19.00	66	28	6
General Light Industry	18.50	10.10	7.90	59.00	28.00	13.00	92	5	3
Hotel	18.50	10.10	7.90	19.40	61.60	19.00	58	38	4
Other Asphalt Surfaces	18.50	10.10	7.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	18.50	10.10	7.90	0.00	0.00	0.00	0	0	0
Parking Lot	18.50	10.10	7.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.548600	0.036250	0.186898	0.112544	0.014284	0.004806	0.017604	0.070134	0.001409	0.001147	0.004508	0.000918	0.000898
General Light Industry	0.548600	0.036250	0.186898	0.112544	0.014284	0.004806	0.017604	0.070134	0.001409	0.001147	0.004508	0.000918	0.000898
Hotel	0.548600	0.036250	0.186898	0.112544	0.014284	0.004806	0.017604	0.070134	0.001409	0.001147	0.004508	0.000918	0.000898
Other Asphalt Surfaces	0.548600	0.036250	0.186898	0.112544	0.014284	0.004806	0.017604	0.070134	0.001409	0.001147	0.004508	0.000918	0.000898
Other Non-Asphalt Surfaces	0.548600	0.036250	0.186898	0.112544	0.014284	0.004806	0.017604	0.070134	0.001409	0.001147	0.004508	0.000918	0.000898
Parking Lot	0.548600	0.036250	0.186898	0.112544	0.014284	0.004806	0.017604	0.070134	0.001409	0.001147	0.004508	0.000918	0.000898

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	100.8709	100.8709	5.4900e-003	1.1400e-003	101.3469
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	100.8709	100.8709	5.4900e-003	1.1400e-003	101.3469
NaturalGas Mitigated	7.0500e-003	0.0641	0.0538	3.8000e-004		4.8700e-003	4.8700e-003		4.8700e-003	4.8700e-003	0.0000	69.7484	69.7484	1.3400e-003	1.2800e-003	70.1629
NaturalGas Unmitigated	7.0500e-003	0.0641	0.0538	3.8000e-004		4.8700e-003	4.8700e-003		4.8700e-003	4.8700e-003	0.0000	69.7484	69.7484	1.3400e-003	1.2800e-003	70.1629

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5.2 Energy by Land Use - NaturalGas**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Light Industry	435691	2.3500e-003	0.0214	0.0179	1.3000e-004		1.6200e-003	1.6200e-003		1.6200e-003	1.6200e-003	0.0000	23.2501	23.2501	4.5000e-004	4.3000e-004	23.3883
Hotel	871345	4.7000e-003	0.0427	0.0359	2.6000e-004		3.2500e-003	3.2500e-003		3.2500e-003	3.2500e-003	0.0000	46.4983	46.4983	8.9000e-004	8.5000e-004	46.7746
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		7.0500e-003	0.0641	0.0538	3.9000e-004		4.8700e-003	4.8700e-003		4.8700e-003	4.8700e-003	0.0000	69.7484	69.7484	1.3400e-003	1.2800e-003	70.1629

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5.2 Energy by Land Use - NaturalGas**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Light Industry	435691	2.3500e-003	0.0214	0.0179	1.3000e-004		1.6200e-003	1.6200e-003		1.6200e-003	1.6200e-003	0.0000	23.2501	23.2501	4.5000e-004	4.3000e-004	23.3883
Hotel	871345	4.7000e-003	0.0427	0.0359	2.6000e-004		3.2500e-003	3.2500e-003		3.2500e-003	3.2500e-003	0.0000	46.4983	46.4983	8.9000e-004	8.5000e-004	46.7746
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		7.0500e-003	0.0641	0.0538	3.9000e-004		4.8700e-003	4.8700e-003		4.8700e-003	4.8700e-003	0.0000	69.7484	69.7484	1.3400e-003	1.2800e-003	70.1629

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5.3 Energy by Land Use - Electricity**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
General Light Industry	136112	32.8804	1.7900e-003	3.7000e-004	33.0356
Hotel	263393	63.6277	3.4600e-003	7.2000e-004	63.9280
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	18060	4.3628	2.4000e-004	5.0000e-005	4.3833
Total		100.8709	5.4900e-003	1.1400e-003	101.3468

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5.3 Energy by Land Use - Electricity**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
General Light Industry	136112	32.8804	1.7900e-003	3.7000e-004	33.0356
Hotel	263393	63.6277	3.4600e-003	7.2000e-004	63.9280
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	18060	4.3628	2.4000e-004	5.0000e-005	4.3833
Total		100.8709	5.4900e-003	1.1400e-003	101.3468

6.0 Area Detail**6.1 Mitigation Measures Area**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1294	2.0000e-005	2.1600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.1900e-003	4.1900e-003	1.0000e-005	0.0000	4.4700e-003
Unmitigated	0.1294	2.0000e-005	2.1600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.1900e-003	4.1900e-003	1.0000e-005	0.0000	4.4700e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0146					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1147					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.0000e-004	2.0000e-005	2.1600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.1900e-003	4.1900e-003	1.0000e-005	0.0000	4.4700e-003
Total	0.1294	2.0000e-005	2.1600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.1900e-003	4.1900e-003	1.0000e-005	0.0000	4.4700e-003

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6.2 Area by SubCategory**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0146					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1147					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.0000e-004	2.0000e-005	2.1600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.1900e-003	4.1900e-003	1.0000e-005	0.0000	4.4700e-003
Total	0.1294	2.0000e-005	2.1600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.1900e-003	4.1900e-003	1.0000e-005	0.0000	4.4700e-003

7.0 Water Detail**7.1 Mitigation Measures Water**

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	59.9781	0.1125	3.2400e-003	63.7581
Unmitigated	59.9781	0.1125	3.2400e-003	63.7581

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7.2 Water by Land Use**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 17.9914	48.2859	2.6300e-003	5.4000e-004	48.5138
General Light Industry	3.10106 / 0	10.7382	0.1016	2.5000e-003	14.0214
Hotel	0.253668 / 0.0281853	0.9540	8.3100e-003	2.1000e-004	1.2230
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		59.9781	0.1125	3.2500e-003	63.7581

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7.2 Water by Land Use**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 17.9914	48.2859	2.6300e-003	5.4000e-004	48.5138
General Light Industry	3.10106 / 0	10.7382	0.1016	2.5000e-003	14.0214
Hotel	0.253668 / 0.0281853	0.9540	8.3100e-003	2.1000e-004	1.2230
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		59.9781	0.1125	3.2500e-003	63.7581

8.0 Waste Detail**8.1 Mitigation Measures Waste**

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Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	4.7500	0.2807	0.0000	11.7679
Unmitigated	4.7500	0.2807	0.0000	11.7679

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8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	1.3	0.2639	0.0156	0.0000	0.6538
General Light Industry	16.63	3.3757	0.1995	0.0000	8.3633
Hotel	5.47	1.1104	0.0656	0.0000	2.7509
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		4.7500	0.2807	0.0000	11.7679

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8.2 Waste by Land Use**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	1.3	0.2639	0.0156	0.0000	0.6538
General Light Industry	16.63	3.3757	0.1995	0.0000	8.3633
Hotel	5.47	1.1104	0.0656	0.0000	2.7509
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		4.7500	0.2807	0.0000	11.7679

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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10.0 Stationary Equipment**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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Boilers

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Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation
