Proposed Project
Total Construction-Related and Operational Gasoline Usage

Table 1. Construction Year One			
Action	**Carbon Dioxide Equivalents (CO_2e) in Metric Tons[1]**	**Conversion of Metric Tons to Kilograms[2]**	**Construction Equipment Emission Factor[2]**
Project Construction	472	472,000	10.15
Total Gallons Consumed During Construction Year One:			**46,502**

Table 2. Construction Year Two			
Action	**Carbon Dioxide Equivalents (CO_2e) in Metric Tons[1]**	**Conversion of Metric Tons to Kilograms[2]**	**Construction Equipment Emission Factor[2]**
Project Construction	069	69,000	10.15
Total Gallons Consumed During Construction Year Two:			**6,798**

Notes:

Fuel used by all construction equipment, including vehicle hauling trucks, assumed to be diesel.

[1]Per CalEEMod Output Files found in Appendix A

[2]Per Climate Registry Equation 13e

Sources:

[1]ECORP Consulting. 2022.

[2]Climate Registry. 2016. *General Reporting Protocol for the Voluntary Reporting Program version 2.1.* January 2016.

http://www.theclimateregistry.org/wp-content/uploads/2014/11/General-Reporting-Protocol-Version-2.1.pdf

Table 3. Average Miles per Gallon in Sacramenot County in 2021 [3]								
Area	**Sub-Area**	**Cal. Year**	**Season**	**Veh_tech**	**EMFAC 2021 Category**	**Total Onroad Vehicle Gallons Consumed in Butte County in 2021**	**Total Onroad Vehicle Miles Traveled in Butte County in 2021**	**Total Passenger Vehicle Miles per Gallon in Butte County in 2021**
Sub-Areas	Sacramento County	2022	Annual	All Vehicles	On-Road	624,823,025	12,791,218,949	20.5

Sources:
[3]California Air Resource Board. 2021. EMFAC2021 Mobile Emissions Model.

Table 4. Total Gallons During Project Operations				
Project Onroad Vehicle Daily Trips[4]	**Estimated Miles per Trip5**	**Project Onroad Vehicle Daily Miles Traveled**	**Project Onroad Vehicle Daily Fuel Consumption**	**Project Onroad Vehicle Annual Fuel Consumption**
4,542	5.395	24,504.09	1,196.97	**436,894**

Sources:
[4]Kimley Horn 2020
[5]CalEEMod 20.4.0