

Truck Trip Summary

Project Land Use	2-Axle Trips (LDH)		3 Axle Trips (MHD)		# 4/5 Axle (HHD)		Total Truck Trips	Total Trucks
	# of Trips	% of trips	# of Trips	% of trips	# of Trips	% of trips		
Building 1 (B1)	0	0.00	130	0.43	174	0.57	304	152
Building 2 (B2)	4	0.20	4	0.20	12	0.60	20	10
<i>Total Site 1</i>	4	0.01	134	0.41	186	0.57	324	162
Site 2	36	0.09	200	0.49	176	0.43	412	206
Total for Project	40	0.05	334	0.45	362	0.49	736	368

Source: Urban Crossroads, Perris Airport Logistics Center Traffic Analysis, April 2024

Truck Route:	Trip Distribution			Total Truck Trips
	% Building 1/2 Inbound	% Building 1/2 Outbound	% Site 2 Traffic	
Goetz Road from Driveway 2 to Ellis Ave	100%	40%	0%	227
Ellis Ave from Goetz to Driveway 4	100%	40%	0%	227
Ellis Ave from Driveway 4 to Case Road	100%	100%	0%	324
Case Road from Ellis to Driveway 5	100%	100%	0%	324
Case Road South of Driveway 5	100%	100%	100%	736

Source: Urban Crossroads, Perris Airport Logistics Center Traffic Analysis, April 2024

EMFAC Emissions Rates

Year: 2025 (first operational year)

Speed (EF Unit)	LHD1 EF	LHD2 EF	MHD Truck EF	HHD Truck EF	Weighted EF B1	Weighted EF B2	Weighted EF Site 1	Weighted EF Site 2	Weight EF Total Project
5 (gram/veh-mile)	0.09963	0.09034	0.03383	0.01243	0.02158	0.03357	0.02232	0.01136	0.02672
25 (gram/veh-mile)	0.04596	0.04347	0.00891	0.00631	0.00742	0.01460	0.00786	0.00547	0.00960
0/IDLE (gram/veh-idle hour)	0.78915	0.79079	0.05626	0.01292	0.03146	0.17694	0.04044	0.05368	0.07480

Assumes 69% LHD1 and 31% LHD2 based on proportion of regional diesel LHD truck population for 2024 in Riverside (SC) Subarea (EMFAC2021 (v1.0.2) Emissions Inventory)

Modeling Emissions Factors

Source	Assumptions	Trucks Per Day	Assumed Distance (meters) or Hours Idling	VMT (miles/day)	Truck Emissions Rate (g/mile)	Truck Emissions Rate (g/idle-hour)	Daily Truck Emissions (grams)	Modeled Emissions (g/s)
Idling (Area) Sources								
Building 1 Loading Area	All Daily B1	152	0.25			0.03146	1.195298705	1.38E-05
Building 2 Loading Area	All Daily B2	10	0.25			0.17694	0.44233982	5.12E-06
Site 2 Case Road Trailer Stalls	1/3 of Site 2	69	0.25			0.05368	0.921556994	1.07E-05
Site 2 Center Site Trailer Stalls	2/3 Site 2	137	0.25			0.05368	1.843113988	2.13E-05
On-Site Travel (Line - Volume) Sources								
Driveway 4 to B1 Loading Aisle	60% B1/2 Outbound Traffic	194	241.9	29	0.02232		0.652175938	7.55E-06
Building 1 Loading Aisle	All Building 1 Traffic + 60% Outbound B2	316	547.3	107	0.02232		2.398530101	2.78E-05
Driveway 2 to Building 1 Loading Aisle	All Building 2 Traffic, 100% Inbound Building 1, and 40% Outbound Building 1	233	182.9	26	0.03357		0.888233665	1.03E-05
B1 Access to B2 Loading Area	100% B2 Traffic	20	144.8	2	0.03357		0.06041282	6.99E-07
Site 2 Travel Lane	100% Site 2 Trips	412	1097.2	281	0.01136		3.189798765	3.69E-05
Off-Site Travel (Line Sources)								
Goetz Road from Driveway 2 to Ellis Ave	See above	227	811.4	114	0.00786		0.899197819	1.04E-05
Ellis Ave from Goetz to Driveway 4		227	100.3	14	0.00786		0.111152996	1.29E-06
Ellis Ave from Driveway 4 to Case Road		324	277.1	56	0.00786		0.438691002	5.08E-06
Case Road from Ellis to Driveway 5		324	490.4	99	0.00786		0.776377003	8.99E-06
Case Road Driveway 5 to Murrieta Road		736	1028.2	470	0.00960		4.514908527	5.23E-05
Shading = Not Applicable to Source								