

BAY AREA AQMD SIMPLIFIED CALINE ANALYSIS UPDATED WITH EMFAC2007

Project Title: CSU Hayward Campus Master Plan-No Hayward Connection
 Intersection: Carlos Bee Blvd./Hayward Blvd
 Analysis Condition: Cumulative Plus Project
 Nearest Air Monitoring Station measuring CO: 40733 Chapel Way in Fremont
 Background 1-hour CO Concentration (ppm): 2.9
 Background 8-hour CO Concentration (ppm): 1.8
 Persistence Factor: 0.7
 Analysis Year: 2030

		Roadway Type	No. of Lanes	Approach/Departure Speed	
				A.M.	P.M.
North-South Roadway:	Carlos Bee	AT GRADE	8	5	5
East-West Roadway:	Hayward Blvd	AT GRADE	4	5	5

EMFAC2007 COMPOSITE EMISSION FACTORS FOR CO

Air Basin: San Francisco Bay Air County: All
 Assumes lowest mean wintertime temperature of 40 degrees F and 30% humidity.

Year	Average Speed (miles per hour)									
	5	8	11	14	17	20	23	26	29	32
2007	4	5	5	5	5	5	5	5	5	5
2008	5	4	5	4	5	5	5	4	5	4
2009	5	4	5	4	5	5	5	4	5	4
2010	5	4	5	4	5	5	5	4	5	4
2011	4	4	5	4	5	5	5	4	5	4
2012	4	4	5	4	5	5	5	4	5	4
2013	5	4	5	4	5	5	5	4	5	4
2014	4	4	5	4	5	5	5	4	5	4
2015	5	4	5	4	5	5	5	4	5	4
2020	4	4	5	4	5	5	5	4	5	4
2025	5	4	5	4	5	5	5	4	5	4
2030	5	4	5	4	5	5	5	4	5	4

PEAK HOUR TURNING VOLUMES

A.M. Peak				P.M. Peak			
N	1	10	0	N	0	9	1
W	<	v	>	W	<	v	>
6	^		^	3	^		^
389	>		<	944	>		<
676	v		v	431	v		v
109	^		^	749	^		^
1	>		>	5	>		>
207	v		v	566	v		v
S				S			

Representative Traffic Volumes (Vehicles per Hour)

N-S Road 2,022 N-S Road 2,144

BAY AREA AQMD SIMPLIFIED CALINE ANALYSIS UPDATED WITH EMFAC200

Project Title:

BAY AREA AQMD SIMPLIFIED CALINE ANALYSIS UPDATED WITH EMFAC2007

Project Title: CSU Hayward Campus Master Plan-No Hayward Connection
 Intersection: Harder Rd./West Loop Rd
 Analysis Condition: Cumulative Plus Project
 Nearest Air Monitoring Station measuring CO: 40733 Chapel Way in Fremont
 Background 1-hour CO Concentration (ppm): 2.9
 Background 8-hour CO Concentration (ppm): 1.8
 Persistence Factor: 0.7
 Analysis Year: 2030

		Roadway Type	No. of Lanes	Approach/Departure Speed	
				A.M.	P.M.
North-South Roadway:	West Loop Road	AT GRADE	2	5	5
East-West Roadway:	Harder Road	AT GRADE	4	5	5

EMFAC2007 COMPOSITE EMISSION FACTORS FOR CO

Air Basin: San Francisco Bay Air County: All
 Assumes lowest mean wintertime temperature of 40 degrees F and 30% humidity.

Year	Average Speed (miles per hour)									
	5	8	11	14	17	20	23	26	29	32
2007	4		5		5		5	4	4	4
2008	5	4	5	4	5	5	5	4	5	4
2009	5		5	5	5	5	5	4	5	4
2010			5	5	5	5	5	5	4	5
2011	4	4	5	4	5	5	5	5	4	5
2012		5	5	4	5	5	5	5	4	5
2013	5	4	4	4	5	5	5	5	4	5
2014	4	4	5	5	5	5	5	5	4	5
2015	5		4				5	5	4	5
2020	4				5	5	5	5	4	5
2025	5	5	4	5	5	5	5	5	4	5
2030	5				5	5	5	5		5

PEAK HOUR TURNING VOLUMES

A.M. Peak				P.M. Peak			
N	155	2	128	N	402	2	90
W	<	v	>	W	<	v	>
E	424	52	158	E	368	120	877
S	0	0	7	S	508	4	4
	<	^	>		<	^	>
	0	0	7		2	4	4

Representative Traffic Volumes (Vehicles per Hour)

N-S Road

761

N-S Road

986

BAY AREA AQMD SIMPLIFIED CALINE ANALYSIS UPDATED WITH EMFAC2007

Project Title: CSU Hayward Campus Master Plan-No Hayward Connection
Intersection: Foothill Blvd./Mattox Rd./Castro Valley Blvd
Analysis Condition: Cumulative Plus Project
Nearest Air Monitoring Station measuring CO: 40733 Chapel Way in Fremont
Background 1-hour CO Concentration (ppm): 2.9
Background 8-hour CO Concentration (ppm): 1.8
Persistence Factor: 0.7
Analysis Year: 2030

			No. of	Approach/Departure	
		Roadway Type	Lanes	Speed	
				A.M.	P.M.
North-South Roadway:	Foothill Blvd	AT GRADE	4	5	5
East-West Roadway:	Mattox Road	AT GRADE	4	5	5

EMFAC2007 COMPOSITE EMISSION FACTORS FOR CO

Air Basin: San Francisco Bay A0

BAY AREA AQMD SIMPLIFIED CALINE ANALYSIS UPDATED WITH EMFAC2007

Project Title: CSU Hayward Campus Master Plan-No Hayward Connection
Intersection: Foothill Blvd./Grove Way
Analysis Condition: Cumulative Plus Project
Nearest Air Monitoring Station measuring CO: 40733 Chapel Way in Fremont
Background 1-hour CO Concentration (ppm): 2.9
Background 8-hour CO Concentration (ppm): 1.8
Persistence Factor: 0.7
Analysis Year: 2030

			No. of	Approach/Departure	
		Roadway Type	Lanes	Speed	
				A.M.	P.M.
North-South Roadway:	Foothill Blvd	AT GRADE	6	5	5
East-West Roadway:	Grove Way	AT GRADE	2	5	5

EMFAC2007 COMPOSITE EMISSION FACTORS FOR CO

Air Basin: San Francisco Bay Area

BAY AREA AQMD SIMPLIFIED CALINE ANALYSIS UPDATED WITH EMFAC200

Project Title:	CSU Hayward Campus Master Plan-No Hayward Connection
Intersection:	Foothill Blvd./D St
Analysis Condition:	Cumulative Plus Project
Nearest Air Monitoring Station measuring CO:	40733 Chapel Way in Fremont
Background 1-hour CO Concentration (ppm):	2.9

BAY AREA AQMD SIMPLIFIED CALINE ANALYSIS UPDATED WITH EMFAC200

Project Title:

CSU Hayward Campus Master Plan-No Hayward Connection

Intersection:

Foothill Blvd./Mission Blvd./Jackson St./E St

BAY AREA AQMD SIMPLIFIED CALINE ANALYSIS UPDATED WITH EMFAC200

Project Title:	CSU Hayward Campus Master Plan-No Hayward Connection
Intersection:	Mission Blvd./Highland Blvd
Analysis Condition:	Cumulative Plus Project
Nearest Air Monitoring Station measuring CO:	40733 Chapel Way in Fremont
Background 1-hour CO Concentration (ppm):	2.9
Background 8-hour CO Concentration (ppm):	1.8
Persistence Factor:	0.7
Analysis Year:	2030

			Approach/Departure	
			No. of	Speed
		Roadway Type	Lanes	A.M. P.M.
North-South Roadway:	Mission Blvd	AT GRADE	4	5 5
East-West Roadway:	Highland Blvd	AT GRADE	2	5 5

BAY AREA AQMD SIMPLIFIED CALINE ANALYSIS UPDATED WITH EMFAC200

Project Title:	CSU Hayward Campus Master Plan-No Hayward Connection
Intersection:	Mission Blvd./Harder Rd
Analysis Condition:	Cumulative Plus Project
Nearest Air Monitoring Station measuring CO:	40733 Chapel Way in Fremont
Background 1-hour CO Concentration (ppm):	2.9
Background 8-hour CO Concentration (ppm):	1.8
Persistence Factor:	0.7
Analysis Year:	2030

		Roadway Type	No. of Lanes	Approach/Departure Speed	
				A.M.	P.M.
North-South Roadway:	Mission Blvd	AT GRADE	4	5	5

BAY AREA AQMD SIMPLIFIED CALINE ANALYSIS UPDATED WITH EMFAC200

Project Title:	CSU Hayward Campus Master Plan-No Hayward Connection
Intersection:	Jackson St./Santa Clara St./Harder Rd
Analysis Condition:	Cumulative Plus Project
Nearest Air Monitoring Station measuring CO:	40733 Chapel Way in Fremont
Background 1-hour CO Concentration (ppm):	2.9
Background 8-hour CO Concentration (ppm):	1.8