A CITY WITH VISION

CERRITOS GENERAL PLAN & EIR

# Appendix C Air Quality Model Runs



# Cerritos General Plan Update Year 2020 Area Source Off-Site Energy Consumption Emissions

Calculated per Table 9-8, Screening Table for Estimating Area Source Operational Emissions - Energy Consumption in the SCAQMD CEQA Handbook.

EMISSION FACTORS BY LAND USE							
Land Use	Unit of	Emissions Factor (lbs/day)					
	Measure	ROG	NOx	CO	PM10		
Single Family Residential	Dwelling Unit	0.00017	0.01916	0.00333	0.00067		
Office	1,000 sq. ft.	0.00024	0.02773	0.00482	0.00096		
Shopping Center	1,000 sq. ft.	0.00032	0.03718	0.00647	0.00129		
Industrial	1,000 sq. ft.	0.00024	0.02773	0.00482	0.00096		
Business Park	1,000 sq. ft.	0.00024	0.02773	0.00482	0.00096		
Government Office Complex	1,000 sq. ft.	0.00024	0.02773	0.00482	0.00096		
Elementary School	1,000 sq. ft.	0.00017	0.01985	0.00345	0.00069		
High School	1,000 sq. ft.	0.00024	0.02773	0.00482	0.00096		
Community College	1,000 sq. ft.	0.00032	0.03655	0.00636	0.00127		

Table 1 EMISSION FACTORS BY LAND USE

Table 2
OFF-SITE ENERGY CONSUMPTION EMISSION FACTORS

Land Use	Unit of	Emissions Factor (lbs/day)				
	Measure	ROG	NOx	CO	PM10	
Single Family Residential	15,871	0.0027	0.3041	0.0529	0.0106	
Office	390,246	0.0937	10.8215	1.8810	0.3746	
Shopping Center	9,263,992	2.9645	344.4352	59.9380	11.9505	
Industrial	643,230	0.1544	17.8368	3.1004	0.6175	
Business Park	11,778,472	2.8268	326.6170	56.7722	11.3073	
Government Office Complex	137,666	0.0330	3.8175	0.6636	0.1322	
Elementary School	5,270,345	0.8960	104.6163	18.1827	3.6365	
High School	5,538,241	1.3292	153.5754	26.6943	5.3167	
Community College	392,041	0.1255	14.3291	2.4934	0.4979	
	TOTAL	8.4258	976.3529	169.7785	33.8438	

File Name:H:\Pdata\00000100\10P\WPWIN\EddieT\URBEMIS\URBEMIS2001\Cerritos.Project Name:Cerritos General Plan Update 2020Project Location:South Coast Air Basin (Los Angeles area)

#### SUMMARY REPORT (Pounds/Day - Summer)

CONSTRUCTION EMISSION ESTIMAT	TES				
TOTALS(lbs/day,unmitigated)	ROG 208.30	NOx 819.08	CO 388.64	PM10 429.74	SO2 50.63
TOTALS (lbs/day, mitigated)	208.30	819.08	388.64	429.74	50.63
AREA SOURCE EMISSION ESTIMATE	ES				
	ROG	NOx	CO	PM10	S02
TOTALS(lbs/day,unmitigated)	810.85	360.23	227.57	0.74	2.66
TOTALS (lbs/day, mitigated)	810.79	359.42	227.25	0.74	2.66
OPERATIONAL (VEHICLE) EMISSIO	N ESTIMA	TES			
	ROG	NOx	CO	PM10	S02
TOTALS (ppd, unmitigated) 2	2,829.75	1,884.97	31,843.05	2,534.27	21.18
TOTALS (ppd, mitigated) 2	2,829.75	1,884.97	31,843.05	2,534.27	21.18

File Name:H:\Pdata\00000100\10P\WPWIN\EddieT\URBEMIS\URBEMIS2001\Cerritos.Project Name:Cerritos General Plan Update 2020Project Location:South Coast Air Basin (Los Angeles area)

#### SUMMARY REPORT (Pounds/Day - Winter)

CONSTRUCTION EMISSION ESTIMAT	ES				
	ROG	NOx	CO	PM10	S02
TOTALS(lbs/day,unmitigated)	208.30	819.08	388.64	429.74	50.63
TOTALS (lbs/day, mitigated)	208.30	819.08	388.64	429.74	50.63
ADEA COUDCE ENTOCION ECHTMANE	10				
AREA SOURCE EMISSION ESTIMATE			* •	-	~ ~ ^ ^
	ROG	NOx	CO	PM10	S02
TOTALS(lbs/day,unmitigated)	803.33	358.32	148.07	0.67	0.00
TOTALS (lbs/day, mitigated)	803.28	357.51	147.75	0.66	0.00

#### OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	PM10	SO2
TOTALS (ppd, unmitigated	) 2,750.13	3,095.71	35,387.03	2,534.27	18.15
TOTALS (ppd, mitigated)	2,750.13	3,095.71	35,387.03	2,534.27	18.15

File Name: H:\Pdata\00000100\10P\WPWIN\EddieT\URBEMIS\URBEMIS2001\Cerritos. Project Name: Cerritos General Plan Update 2020 South Coast Air Basin (Los Angeles area) Project Location: SUMMARY REPORT (Tons/Year) PM10 53.72 CONSTRUCTION EMISSION ESTIMATES ROG NOx CO PM10TOTALS (tpy, unmitigated)23.85102.3848.5853.72TOTALS (tpy, mitigated)23.85102.3848.5853.72 SO2 6.33 6.33 AREA SOURCE EMISSION ESTIMATES 
 ROG
 NOx
 CO
 PM10

 TOTALS (tpy, unmitigated)
 147.28
 65.56
 34.18
 0.13

 TOTALS (tpy, mitigated)
 147.24
 65.42
 34.12
 0.13
 SO2 0.24 0.24 OPERATIONAL (VEHICLE) EMISSION ESTIMATES ON ESTIMATES ROG NOX CO PM10 511.59 417.66 6,026.95 462.50 SO2 TOTALS (tpy, unmitigated) 3.68 TOTALS (tpy, mitigated) 511.59 417.66 6,026.95 462.50 3.68

Page: 3

File Name:H:\Pdata\00000100\10P\WPWIN\EddieT\URBEMIS\URBEMIS2001\Cerritos.Project Name:Cerritos General Plan Update 2020Project Location:South Coast Air Basin (Los Angeles area)

#### DETAIL REPORT (Pounds/Day - Winter)

Total Land Use Area to be Developed (Estimated): 3805 acres Retail/Office/Institutional Square Footage: 22213616 Single Family Units: 13275 Multi-family Units: 2596

#### CONSTRUCTION EMISSION ESTIMATES

Source	ROG	NOx	CO	PM10	SO2
Demolition		-	-	0.00	-
Site Grading	11.65	110.18		359.28	11.01
Const. Worker Trips	144.85	204.92	388.64	39.31	-
Stationary Equip	1.85	1.51	-	0.09	0.02
Mobile Equip Gas	0.00	0.00	_	0.00	0.00
Mobile Equip Diesel	31.68	502.48	-	31.06	39.60
Architectural Coatings	0.00	-	-	_	-
Asphalt Offgassing	18.27	-	-		-
TOTALS(lbs/day,unmitigated)	208.30	819.08	388.64	429.74	50.63

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### UNMITIGATED OPERATIONAL EMISSIONS

Single family housing Condo/townhouse general Elementary school Junior high school High school Junior college (2 yrs) Regnl shop. center < 5700 General office building Office park Government (civic center) Industrial park		NOx 827.12 92.06 35.35 13.36 20.40 42.15 279.87 509.06 33.35 ,175.48 28.38 39.12	1,063.01 403.31 151.88 229.99 470.16		SO2 4.96 0.55 0.20 0.08 0.12 0.25 1.57 2.82 0.20 7.00 0.16 0.23
TOTAL EMISSIONS (lbs/day)	2,750.13 3	,095.71	35,387.03	2,534.27	18.15
Includes correction for p Does not include double c		ment for	internal	trips.	
OPERATIONAL (Vehicle) EMI	SSION ESTIMATE	S			
Analysis Year: 2020 Temp	erature (F): 4	0 Seas	on: Winter		
EMFAC Version: EMFAC2001	(10/2001)				
Summary of Land Uses:					
Unit Type	Trip Ra	te		Size	Total Trips
Single family housing Condo/townhouse general Elementary school Junior high school High school Junior college (2 yrs) Regnl shop. center < 5700 Regnl shop. center > 5700 General office building Office park Government (civic center) Industrial park	15.08 trips 9.68 trips 10.46 trips	/ dwell / stude / stude / stude / 1000 / 1000 / 1000 / 1000 / 1000	ing units nts nts nts sq. ft. sq. ft. sq. ft. sq. ft. sq. ft. sq. ft.	13,275.002,596.005,409.001,952.005,085.003,200.002,418.246,845.75390.2511,778.47137.67643.24	93,057.75 10,358.04 5,246.73 1,893.44 2,847.60 5,248.00 52,862.75 103,233.92 3,777.58 123,202.82 4,129.98 3,943.06
Vehicle Assumptions:					
Fleet Mix:					
Vehicle Type	Percent Type	Non-Ca	talvst	Catalvst	Diesel

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	61.40	4.70	94.50	0.80
Light Truck < 3,750 lb	os 9.30	11.00	88.90	0.10
Light Truck 3,751- 5,75	50 16.70	1.80	97.60	0.60
Med Truck 5,751-8,50	0 7.20	12.50	79.20	8.30
Lite-Heavy 8,501-10,00	0 1.10	18.20	72.70	9.10
Lite-Heavy 10,001-14,00	0.30	0.00	66.70	33.30
Med-Heavy 14,001-33,00	0 1.10	9.10	27.30	63.60
Heavy-Heavy 33,001-60,00	0.70	0.00	0.00	100.00
Line Haul > 60,000 lb	os 0.00	0.00	0.00	100.00
Urban Bus	0.00	0.00	0.00	100.00

Motorcycle School Bus Motor Home	1.40 0.10 0.70		90.90 0.00 0.00	0	.10 .00 .00	0.00 100.00 0.00
Travel Conditions	Home-	Residentia Home-	l Home-	Commercial		L
Urban Trip Length (miles) Rural Trip Length (miles) Trip Speeds (mph) % of Trips - Residential	Work 11.5 11.5 35.0	Shop 4.9 4.9	Other 6.0 6.0 40.0 43.0	Commute 10.3 10.3 40.0	5.5	5.5
<pre>% of Trips - Commercial () Elementary school Junior high school High school Junior college (2 yrs) Regnl shop. center &lt; 5700 Regnl shop. center &gt; 5700 General office building Office park Government (civic center) Industrial park</pre>	00 sf	use)		$20.0 \\ 20.0 \\ 10.0 \\ 5.0 \\ 2.0 \\ 2.0 \\ 35.0 \\ 48.0 \\ 10.0 \\ 41.5$	$   \begin{array}{r}     10.0 \\     10.0 \\     5.0 \\     2.5 \\     1.0 \\     1.0 \\     17.5 \\     24.0 \\     5.0 \\     20.8 \\   \end{array} $	70.0 70.0 85.0 92.5 97.0 97.0 47.5 28.0 85.0 37.8

Changes made to the default values for Construction

The architectural coating option switch changed from on to off. The construction year changed from 2002 to 2020. The demolition days required changed from 10 to 0. The site grading max daily acreage estimate changed from to 35. The site grading tracked loader total vehicles changed from to 4. The site grading wheeled loader total vehicles changed from to 4. The site grading motor grader total vehicles changed from to 4. The worker construction year changed from 2002 to 2020. The asphalt acres to be paved changed from 1 to 69.733769513315. The stationary equipment equipment units changed from 2 to 11. The mobile diesel fork lift 175 HP total vehicles changed from to 11. The mobile diesel truck: off hwy total vehicles changed from to 11. Changes made to the default values for Area

The wood stove option switch changed from on to off. The fireplcase option switch changed from on to off. The landscape year changed from 2002 to 2020. Changes made to the default values for Operations

The operational emission year changed from 2002 to 2020. The operational winter temperature changed from 50 to 40. The operational winter selection item changed from 3 to 1. The operational summer selection item changed from 8 to 7. The home based work selection item changed from 9 to 8. The home based shopping selection item changed from 9 to 8. The home based other selection item changed from 9 to 8. The commercial based commute selection item changed from 9 to 8. The commercial based non-work selection item changed from 9 to 8. The commercial based customer selection item changed from 9 to 8. The double counting internal work trip limit changed from to 20683.158. The double counting shopping trip limit changed from to 33803.0007652. The double counting other trip limit changed from to 44468.7897.

File Name:H:\Pdata\00000100\10P\WPWIN\EddieT\URBEMIS\URBEMIS2001\Cerritos.Project Name:Cerritos General Plan Update 2020Project Location:South Coast Air Basin (Los Angeles area)

#### DETAIL REPORT (Pounds/Day - Summer)

Total Land Use Area to be Developed (Estimated): 3805 acres Retail/Office/Institutional Square Footage: 22213616 Single Family Units: 13275 Multi-family Units: 2596

## CONSTRUCTION EMISSION ESTIMATES

Source	ROG	NOx	CO	PM10	S02
Demolition	-	-		0.00	-
Site Grading	11.65	110.18		359.28	11.01
Const. Worker Trips	144.85	204.92	388.64	39.31	-
Stationary Equip	1.85	1.51		0.09	0.02
Mobile Equip Gas	0.00	0.00	-	0.00	0.00
Mobile Equip Diesel	31.68	502.48	-	31.06	39.60
Architectural Coatings	0.00	-	-	-	-
Asphalt Offgassing	18.27	_	-	_	-
TOTALS(lbs/day,unmitigated)	208.30	819.08	388.64	429.74	50.63

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#### UNMITIGATED OPERATIONAL EMISSIONS

Single family housing Condo/townhouse general Elementary school Junior high school High school Junior college (2 yrs) Regnl shop. center < 5700 Regnl shop. center > 5700 General office building Office park Government (civic center) Industrial park	ROG 732.67 95.90 94.45 34.33 79.04 68.08 242.46 485.41 26.86 916.17 21.29 33.09	NOx 501.70 55.84 21.59 8.15 12.44 25.62 172.38 314.44 20.23 711.60 17.32 23.66	963.94	218.33 392.16 27.66 980.68 22.97	SO2 5.86 0.65 0.24 0.09 0.14 0.29 1.82 3.27 0.23 8.14 0.19 0.27
TOTAL EMISSIONS (lbs/day)	2,829.75 1	,884.97	31,843.05	2,534.27	21.18
Includes correction for pas Does not include double cou		ment for	internal	trips.	
OPERATIONAL (Vehicle) EMISS	ION ESTIMATE	S			
Analysis Year: 2020 Temper	ature (F): 9	0 Seas	on: Summer		
EMFAC Version: EMFAC2001 (1	0/2001)				
Summary of Land Uses:					
Unit Type	Trip Ra	te		Size	Total Trips
Single family housing Condo/townhouse general Elementary school Junior high school High school Junior college (2 yrs) Regnl shop. center < 5700 Regnl shop. center > 5700 General office building Office park Government (civic center) Industrial park	7.01 trips 3.99 trips 0.97 trips 0.56 trips 1.64 trips 15.08 trips 9.68 trips 10.46 trips 30.00 trips 6.13 trips	/ dwell / stude / stude / stude / 1000 / 1000 / 1000 / 1000 / 1000	ing units nts nts nts sq. ft. sq. ft. sq. ft. sq. ft. sq. ft. sq. ft.	13,275.002,596.005,409.001,952.005,085.003,200.002,418.246,845.75390.2511,778.47137.67643.24	2,847.60 5,248.00 52,862.75 103,233.92 3,777.58
Vehicle Assumptions:					
Fleet Mix:					
Vehicle Type Pe Light Auto Light Truck < 3,750 lbs Light Truck 3,751- 5,750 Med Truck 5,751- 8,500 Lite-Heavy 8,501-10,000 Lite-Heavy 10,001-14,000 Med-Heavy 14,001-33,000 Heavy-Heavy 33,001-60,000 Line Haul > 60,000 lbs Urban Bus	rcent Type 61.40 9.30 16.70 7.20 1.10 0.30 1.10 0.70 0.00 0.00	Non-Ca 4. 11. 12. 18. 0. 9. 0. 0. 0.	70 00 80 50 20 00 10 00 00	Catalyst 94.50 88.90 97.60 79.20 72.70 66.70 27.30 0.00 0.00 0.00	Diesel 0.80 0.10 0.60 8.30 9.10 33.30 63.60 100.00 100.00

Motorcycle School Bus Motor Home	1.40 0.10 0.70		90.90 0.00 0.00	0	.10 .00 .00	0.00 100.00 0.00
Travel Conditions		Residentia Home-			Commercia	1
Urban Trip Length (miles) Rural Trip Length (miles) Trip Speeds (mph) % of Trips - Residential	11.5 35.0	Shop 4.9 4.9	6.0	10.3	5.5 5.5	
<pre>% of Trips - Commercial () Elementary school Junior high school High school Junior college (2 yrs) Regnl shop. center &lt; 5700 Regnl shop. center &gt; 5700 General office building Office park Government (civic center) Industrial park</pre>	00 sf	15e)		20.0 20.0 10.0 5.0 2.0 2.0 35.0 48.0 10.0 41.5	10.0 5.0 2.5 1.0 1.0 17.5 24.0	70.0 70.0 85.0 92.5 97.0 97.0 47.5 28.0 85.0 37.8

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Changes made to the default values for Construction

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File Name:H:\Pdata\00000100\10P\WPWIN\EddieT\URBEMIS\URBEMIS2001\Cerritos.Project Name:Cerritos General Plan Update 2020Project Location:South Coast Air Basin (Los Angeles area)

#### DETAIL REPORT (Tons/Year)

Total Land Use Area to be Developed (Estimated): 3805 acres Retail/Office/Institutional Square Footage: 22213616 Single Family Units: 13275 Multi-family Units: 2596

CONSTRUCTION EMISSION ESTIMA	TES				
Source	ROG	NOx	CO	PM10	SO2
Demolition	~	-	-	0.00	-
Site Grading	1.46	13.77	-	44.91	1.38
Const. Worker Trips	18.11	25.61	48.58	4.91	-
Stationary Equip	0.23	0.19	-	0.01	0.00
Mobile Equip Gas	0.00	0.00	-	0.00	0.00
Mobile Equip Diesel	3.96	62.81	-	3.88	4.95
Architectural Coatings	0.00	-	-	-	-
Asphalt Offgassing	0.09	-	-	-	-
TOTALS (tpy, unmitigated)	23.85	102.38	48.58	53.72	6.33

AREA SOURCE EMISSION ESTIMAT	ES				
Source	ROG	NOx	. CO	PM10	SO2
Natural Gas	4.90	65.39	27.02	0.12	-
Wood Stoves	0.00	0.00	0.00	0.00	0.00
Fireplaces	0.00	0.00	0.00	0.00	0.00
Landscaping	0.68	0.17	7.16	0.01	0.24
Consumer Prdcts	141.70			-	
TOTALS (tpy, unmitigated)	147.28	65.56	34.18	0.13	0.24

#### UNMITIGATED OPERATIONAL EMISSIONS

Single family housing Condo/townhouse general Elementary school Junior high school High school Junior college (2 yrs) Regnl shop. center < 5700 Regnl shop. center > 5700 General office building Office park Government (civic center) Industrial park	ROG 132.71 16.52 13.46 4.91 10.70 10.41 46.33 90.78 4.97 170.72 4.13 5.95	38.00 69.23 4.49 158.09 3.83 5.26	CO 1,634.62 181.95 68.40 25.80 39.03 80.03 535.92 977.11 64.60 2,289.40 54.36 75.73	178.97 4.19 5.98	SO2 1.01 0.11 0.04 0.02 0.02 0.02 0.05 0.32 0.57 0.04 1.42 0.03 0.05
TOTAL EMISSIONS (tons/year)		417.66	6,026.95	462.50	3.68
Includes correction for pass Does not include double cour		ment for	internal	trips.	
OPERATIONAL (Vehicle) EMISS	ION ESTIMATE	S			
Analysis Year: 2020 Tempera	uture (F): 9	0 Seaso	on: Annual		
EMFAC Version: EMFAC2001 (10	)/2001)				
Summary of Land Uses:					
Unit Type	Trip Ra	te		Size	Total Trips
Single family housing Condo/townhouse general Elementary school Junior high school High school Junior college (2 yrs) Regnl shop. center < 5700 Regnl shop. center > 5700 General office building Office park Government (civic center) Industrial park	7.01 trips 3.99 trips 0.97 trips 0.97 trips 0.56 trips 1.64 trips 21.86 trips 15.08 trips 9.68 trips 30.00 trips 6.13 trips	/ dwell: / studer / studer / studer / 1000 s / 1000 s / 1000 s / 1000 s / 1000 s	ing units hts hts strains sq. ft. sq. ft. sq. ft. sq. ft. sq. ft. sq. ft.	13,275.002,596.005,409.001,952.005,085.003,200.002,418.246,845.75390.2511,778.47137.67643.24	93,057.75 10,358.04 5,246.73 1,893.44 2,847.60 5,248.00 52,862.75 103,233.92 3,777.58 123,202.82 4,129.98 3,943.06
Vehicle Assumptions:					
Fleet Mix:					
Vehicle Type Per Light Auto Light Truck < 3,750 lbs	cent Type 61.40	Non-Cat 4.		Catalyst 94.50	Diesel 0.80

Light Truck < 3,750</td>1559.3011.0088.900.10Light Truck 3,751-5,75016.701.8097.600.60Med Truck 5,751-8,5007.2012.5079.208.30Lite-Heavy 8,501-10,0001.1018.2072.709.10Lite-Heavy 10,001-14,0000.300.0066.7033.30Med-Heavy 14,001-33,0001.109.1027.3063.60Heavy-Heavy 33,001-60,0000.700.000.00100.00Line Haul > 60,0001bs0.000.000.00100.00Urban Bus0.000.000.00100.00

Motorcycle School Bus Motor Home	1.40 0.10 0.70		90.90 0.00 0.00	C	.10 .00 .00	0.00 100.00 0.00
Travel Conditions		Residentia			Commercial	L
Urban Trip Length (miles) Rural Trip Length (miles) Trip Speeds (mph) % of Trips - Residential	11.5 35.0	4.9 40.0	6.0 6.0	10.3	5.5 5.5	5.5 5.5
<pre>% of Trips - Commercial () Elementary school Junior high school High school Junior college (2 yrs) Regnl shop. center &lt; 5700 Regnl shop. center &gt; 5700 General office building Office park Government (civic center) Industrial park</pre>	00 sf	use)		20.0 20.0 10.0 5.0 2.0 2.0 35.0 48.0 10.0 41.5	10.0 5.0 2.5 1.0 1.0 17.5 24.0	70.0 85.0 92.5 97.0 97.0 47.5 28.0

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Changes made to the default values for Construction

The architectural coating option switch changed from on to off. The construction year changed from 2002 to 2020. The demolition days required changed from 10 to 0. The site grading max daily acreage estimate changed from to 35. The site grading tracked loader total vehicles changed from to 4. The site grading wheeled loader total vehicles changed from to 4. The site grading motor grader total vehicles changed from to 4. The worker construction year changed from 2002 to 2020. The asphalt acres to be paved changed from 1 to 69.733769513315. The stationary equipment equipment units changed from 2 to 11. The mobile diesel fork lift 175 HP total vehicles changed from to 11. The mobile diesel truck: off hwy total vehicles changed from to 11. Changes made to the default values for Area

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The operational emission year changed from 2002 to 2020. The operational winter temperature changed from 50 to 40. The operational winter selection item changed from 3 to 1. The operational summer selection item changed from 8 to 7. The home based work selection item changed from 9 to 8. The home based other selection item changed from 9 to 8. The nome based other selection item changed from 9 to 8. The commercial based commute selection item changed from 9 to 8. The commercial based non-work selection item changed from 9 to 8. The commercial based customer selection item changed from 9 to 8. The commercial based customer selection item changed from 9 to 8. The double counting internal work trip limit changed from to 20683.158. The double counting shopping trip limit changed from to 33803.0007652. The double counting other trip limit changed from to 44468.7897.

# URBEMIS2001 Assumptions: City of Cerritos General Plan Update Year 2020: Date 09/26/02

Model Title: Cerritos.URB

	LAND USES						
Year 2020 Amount (net increase over existing 2001 conditions)	Unit Type	URBEMIS- 2001 Land Use Type	General Plan Land Use Category	Trip Rate With Proposed Density	% Emp. Trips	Notes	
13,275	Dwelling	Single-family	Low Density	7.01	-		
2,596	Units	housing	Medium Density	3.99			
			Low, Med, High Density in non-res. zoned areas*				
390.246	1,000 sq. ft.	Office	Office/Prof. Commercial	9.68	35		
2,418.241	1,000 sq. ft.	Regional Shopping Center <570,000	Community Commercial	21.86	2		
6,845.751	1,000 sq. ft.	Regional Shopping Center >570,000	Regional Commercial	15.08	2		
643.230	1,000 sq. ft.	Industrial Park	Industrial/ Commercial	6.13	41.5		
11,778.472	1,000 sq. ft.	Office Park	Business Park	10.46	48		
137.666	1,000 sq. ft.	Govt. Civic Center	Public/ Quasi-Public	30	10		
5,409	students	Elementary School	Elementary School	0.97	20		
1,952	students	Junior High School	Junior High School	0.97	20		
5,085	students	High School	High School	0.56	10		
3,200	students	Junior College	Junior College (2 year)	1.64	5		

NOTE: There exist no reliable methods of quantifying the future scope and amounts of construction within the City. Two analytical approaches exist that may be utilized to respond to this issue. 1) The analysis for construction could be waived. 2) The analysis could be modeled using the URBEMIS2001 default settings in all construction subcategories.

CONSTRUCTION SOURCES:				
	Year 2020 Amount			
Demolition	(URBEMIS2001 Default)			
Grading	(URBEMIS2001 Default)			
Equipment Exhaust	(URBEMIS2001 Default)			
Fugitive Dust	(URBEMIS2001 Default)			
Worker Trips	(URBEMIS2001 Default)			
Asphalt	(URBEMIS2001 Default)			
Stationary Equipment	(URBEMIS2001 Default)			
Mobile Equipment	(URBEMIS2001 Default)			
Architectural Coatings	off			
Year	2020			
Construction Mitigation:	Water graded areas and unpaved roads twice daily			
Note: Typical construction related mitigation measures	Properly maintain grading and construction equipment			
	Keep speeds on unpaved roads to less than 15 mph			

AREA SOURCES				
Fuel Combustion:	Year 2020 Amount			
	(URBEMIS2001 default)			
Wood Stoves: and Fireplaces	Off: This amount is likely negligible for the area			
Landscape Maintenance Equipment	Year 2020			
Consumer Products	(URBEMIS2001 default)			

OPERATIONAL SOURCES					
	Year 2020 Amount				
Anticipated Fleet Mix:	(URBEMIS2001 Default)				
Note : The City may chose to generate its own traffic mix or utilize the URBEMIS2001 vehicle mix default. It is as follows:					
61.4%       auto         9.3%       light truck <3,500 lbs					
Year:	2020				
Trip Characteristics:	All trips at 45 MPH (average speed) for 5 miles urban setting				
Temperature Data:	40 to 90 degrees Fahrenheit				
Variable Starts:	(URBEMIS2001 Default)				
Paved or Unpaved Roads:	100% paved				
Pass By Trips:	On				