



Appendix D:

Air Quality Data

**Parenthetical CALEEMod Assumptions
City of Fullerton Existing Conditions
Date: April 2011**

LAND USES

Existing	Land Use Type	Unit Type	Trip Rate
25,558	Single Family Housing	Dwelling Units	9.57
20,453	Multifamily Housing	Dwelling Units	6.90
10,198	Elementary School	Students	1.29
3,228	Junior High School	Students	1.62
7,089	High School	Students	1.71
20,000	Junior College	Students	1.20
36,000	University/College	Students	2.38
264.15	Places of Worship	1,000 square feet	9.11
255.93	City Park	Acres	1.59
11,227.36	Shopping Center	1,000 square feet	42.94
11,411.99	General Office	1,000 square feet	11.01
1,164.80	Government	1,000 square feet	68.93
22,412.70	General Light Industry	1,000 square feet	6.97
408.36	Golf Course	Acres	5.04
275.23	Airport	1,000 square feet	5.00

AREA AND MOBILE SOURCES

CalEEMod area source and operational defaults rates have been utilized. Default rates have not been modified.

Fullerton General Plan Update - Baseline
South Coast Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric
Single Family Housing	25558	Dwelling Unit
Apartments Mid Rise	20453	Dwelling Unit
Elementary School	10198	Student
Junior High School	3228	Student
High School	7089	Student
Junior College (2Yr)	20000	Student
University/College (4Yr)	36000	Student
Place of Worship	264.15	1000sqft
City Park	255.93	Acre
Regional Shopping Center	11227.36	1000sqft
General Office Building	11411.99	1000sqft
Government Office Building	1164.8	1000sqft
General Light Industry	22412.7	1000sqft
Golf Course	408.36	Acre
Unrefrigerated Warehouse-No Rail	275.23	1000sqft

1.2 Other Project Characteristics

Urbanization Urban

Wind Speed (m/s) 2.2

Utility Company Southern California Edison

Climate Zone 8

Precipitation Freq (Days) 31

1.3 User Entered Comments

Project Characteristics -

Land Use - Warehouse=Airport Use

Construction Phase - No Construction
 Off-road Equipment -
 Off-road Equipment -
 Vehicle Trips - Warehouse=Airport Use
 Mobile Land Use Mitigation -

2.0 Emissions Summary

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	714.65	12.74	1,035.00	0.50		0.00	48.92		0.00	48.90	4,887.25	29,319.29	34,206.54	16.33	0.68	34,759.03
Energy	11.36	99.38	58.16	0.62		0.00	7.85		0.00	7.85	0.00	376,522.93	376,522.93	14.10	6.59	378,862.32
Mobile	1,313.44	3,079.44	13,338.25	15.32	1,553.63	107.77	1,661.40	24.16	102.07	126.23	0.00	1,489,470.95	1,489,470.95	91.27	0.00	1,491,387.52
Waste						0.00	0.00		0.00	0.00	281,274.07	0.00	281,274.07	16,622.82	0.00	630,353.33
Water						0.00	0.00		0.00	0.00	0.00	463,583.55	463,583.55	3,617.80	97.13	569,668.11
Total	2,039.45	3,191.56	14,431.41	16.44	1,553.63	107.77	1,718.17	24.16	102.07	182.98	286,161.32	2,358,896.72	2,645,058.04	20,362.32	104.40	3,105,030.31

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	714.65	12.74	1,035.00	0.50		0.00	48.92		0.00	48.90	4,887.25	29,319.29	34,206.54	16.33	0.68	34,759.03
Energy	11.36	99.38	58.16	0.62		0.00	7.85		0.00	7.85	0.00	376,522.93	376,522.93	14.10	6.59	378,862.32
Mobile	1,313.44	3,079.44	13,338.25	15.32	1,553.63	107.77	1,661.40	24.16	102.07	126.23	0.00	1,489,470.95	1,489,470.95	91.27	0.00	1,491,387.52
Waste						0.00	0.00		0.00	0.00	281,274.07	0.00	281,274.07	16,622.82	0.00	630,353.33
Water						0.00	0.00		0.00	0.00	0.00	463,583.55	463,583.55	3,617.80	97.13	569,668.11
Total	2,039.45	3,191.56	14,431.41	16.44	1,553.63	107.77	1,718.17	24.16	102.07	182.98	286,161.32	2,358,896.72	2,645,058.04	20,362.32	104.40	3,105,030.31

3.0 Construction Detail

3.1 Mitigation Measures Construction

4.0 Mobile Detail

4.1 Mitigation Measures Mobile

	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	1,313.44	3,079.44	13,338.25	15.32	1,553.63	107.77	1,661.40	24.16	102.07	126.23	0.00	1,489,470.95	1,489,470.95	91.27	0.00	1,491,387.52
Unmitigated	1,313.44	3,079.44	13,338.25	15.32	1,553.63	107.77	1,661.40	24.16	102.07	126.23	0.00	1,489,470.95	1,489,470.95	91.27	0.00	1,491,387.52
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	141,125.70	146,443.48	124,149.71	396,083,822	396,083,822
City Park	406.93	406.93	406.93	868,733	868,733
Elementary School	13,155.42	0.00	0.00	20,719,214	20,719,214
General Light Industry	156,216.52	29,584.76	15,240.64	344,463,942	344,463,942
General Office Building	125,646.01	27,046.42	11,183.75	227,525,026	227,525,026
Golf Course	2,058.13	2,376.66	2401.16	3,890,424	3,890,424
Government Office Building	80,289.66	0.00	0.00	98,347,982	98,347,982
High School	12,122.19	4,324.29	1,772.25	24,950,139	24,950,139
Junior College (2Yr)	24,000.00	8,400.00	800.00	46,872,597	46,872,597
Junior High School	5,229.36	0.00	0.00	8,397,584	8,397,584
Place of Worship	2,406.41	2,739.24	9675.81	6,533,263	6,533,263
Regional Shopping Center	482,102.84	561,031.18	283,378.57	815,267,693	815,267,693
Single Family Housing	244,590.06	257,624.64	224,143.66	691,657,915	691,657,915
University/College (4Yr)	85,680.00	46,800.00	0.00	171,454,247	171,454,247

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Unrefrigerated Warehouse-No Rail	1,376.15	1,376.15	1376.15	4,017,685	4,017,685
Total	1,376,405.38	1,088,153.74	674,528.62	2,861,050,266	2,861,050,266

4.3 Trip Type Information

Land Use	Miles			Trip %		
	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
Apartments Mid Rise	10.80	7.30	7.50	40.20	19.20	40.60
City Park	9.50	7.30	7.30	33.00	48.00	19.00
Elementary School	9.50	7.30	7.30	65.00	30.00	5.00
General Light Industry	9.50	7.30	7.30	59.00	28.00	13.00
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00
Golf Course	9.50	7.30	7.30	33.00	48.00	19.00
Government Office Building	9.50	7.30	7.30	33.00	62.00	5.00
High School	9.50	7.30	7.30	77.80	17.20	5.00
Junior College (2Yr)	9.50	7.30	7.30	6.40	88.60	5.00
Junior High School	9.50	7.30	7.30	72.80	22.20	5.00
Place of Worship	9.50	7.30	7.30	0.00	95.00	5.00
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00
Single Family Housing	10.80	7.30	7.50	40.20	19.20	40.60
University/College (4Yr)	9.50	7.30	7.30	6.40	88.60	5.00
Unrefrigerated Warehouse-No Rail	9.50	7.30	7.30	59.00	0.00	41.00

5.0 Energy Detail

5.1 Mitigation Measures Energy

	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						0.00	0.00		0.00	0.00	0.00	264,092.92	264,092.92	11.94	4.53	265,748.08
Electricity Unmitigated						0.00	0.00		0.00	0.00	0.00	264,092.92	264,092.92	11.94	4.53	265,748.08
NaturalGas Mitigated	11.36	99.38	58.16	0.62		0.00	7.85		0.00	7.85	0.00	112,430.01	112,430.01	2.15	2.06	113,114.24
NaturalGas Unmitigated	11.36	99.38	58.16	0.62		0.00	7.85		0.00	7.85	0.00	112,430.01	112,430.01	2.15	2.06	113,114.24
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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	tons/yr										MT/yr					
Apartments Mid Rise	2.44889e+008	1.32	11.28	4.80	0.07		0.00	0.91		0.00	0.91	0.00	13,068.24	13,068.24	0.25	0.24	13,147.77
City Park	0	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
Elementary School	1.05806e+007	0.06	0.52	0.44	0.00		0.00	0.04		0.00	0.04	0.00	564.62	564.62	0.01	0.01	568.06
General Light Industry	4.85011e+008	2.62	23.78	19.97	0.14		0.00	1.81		0.00	1.81	0.00	25,882.02	25,882.02	0.50	0.47	26,039.54
General Office Building	1.09441e+008	0.59	5.36	4.51	0.03		0.00	0.41		0.00	0.41	0.00	5,840.19	5,840.19	0.11	0.11	5,875.73

	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	tons/yr										MT/yr					
Golf Course	0	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
Government Office Building	1.11704e+007	0.06	0.55	0.46	0.00		0.00	0.04		0.00	0.04	0.00	596.10	596.10	0.01	0.01	599.72
High School	1.16708e+007	0.06	0.57	0.48	0.00		0.00	0.04		0.00	0.04	0.00	622.80	622.80	0.01	0.01	626.59
Junior College (2Yr)	1.38465e+007	0.07	0.68	0.57	0.00		0.00	0.05		0.00	0.05	0.00	738.90	738.90	0.01	0.01	743.40
Junior High School	4.70946e+006	0.03	0.23	0.19	0.00		0.00	0.02		0.00	0.02	0.00	251.31	251.31	0.00	0.00	252.84
Place of Worship	5.71621e+006	0.03	0.28	0.24	0.00		0.00	0.02		0.00	0.02	0.00	305.04	305.04	0.01	0.01	306.89
Regional Shopping Center	2.30161e+007	0.12	1.13	0.95	0.01		0.00	0.09		0.00	0.09	0.00	1,228.23	1,228.23	0.02	0.02	1,235.70
Single Family Housing	1.08073e+009	5.83	49.80	21.19	0.32		0.00	4.03		0.00	4.03	0.00	57,671.85	57,671.85	1.11	1.06	58,022.84
University/College (4Yr)	1.04941e+008	0.57	5.14	4.32	0.03		0.00	0.39		0.00	0.39	0.00	5,600.05	5,600.05	0.11	0.10	5,634.13
Unrefrigerated Warehouse-No Rail	1.1367e+006	0.01	0.06	0.05	0.00		0.00	0.00		0.00	0.00	0.00	60.66	60.66	0.00	0.00	61.03
Total		11.37	99.38	58.17	0.60		0.00	7.85		0.00	7.85	0.00	112,430.01	112,430.01	2.15	2.05	113,114.24

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	tons/yr										MT/yr					
Apartments Mid Rise	2.44889e+008	1.32	11.28	4.80	0.07		0.00	0.91		0.00	0.91	0.00	13,068.24	13,068.24	0.25	0.24	13,147.77
City Park	0	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

	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	tons/yr										MT/yr					
Elementary School	1.05806e+007	0.06	0.52	0.44	0.00		0.00	0.04		0.00	0.04	0.00	564.62	564.62	0.01	0.01	568.06
General Light Industry	4.85011e+008	2.62	23.78	19.97	0.14		0.00	1.81		0.00	1.81	0.00	25,882.02	25,882.02	0.50	0.47	26,039.54
General Office Building	1.09441e+008	0.59	5.36	4.51	0.03		0.00	0.41		0.00	0.41	0.00	5,840.19	5,840.19	0.11	0.11	5,875.73
Golf Course	0	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
Government Office Building	1.11704e+007	0.06	0.55	0.46	0.00		0.00	0.04		0.00	0.04	0.00	596.10	596.10	0.01	0.01	599.72
High School	1.16708e+007	0.06	0.57	0.48	0.00		0.00	0.04		0.00	0.04	0.00	622.80	622.80	0.01	0.01	626.59
Junior College (2Yr)	1.38465e+007	0.07	0.68	0.57	0.00		0.00	0.05		0.00	0.05	0.00	738.90	738.90	0.01	0.01	743.40
Junior High School	4.70946e+006	0.03	0.23	0.19	0.00		0.00	0.02		0.00	0.02	0.00	251.31	251.31	0.00	0.00	252.84
Place of Worship	5.71621e+006	0.03	0.28	0.24	0.00		0.00	0.02		0.00	0.02	0.00	305.04	305.04	0.01	0.01	306.89
Regional Shopping Center	2.30161e+007	0.12	1.13	0.95	0.01		0.00	0.09		0.00	0.09	0.00	1,228.23	1,228.23	0.02	0.02	1,235.70
Single Family Housing	1.08073e+009	5.83	49.80	21.19	0.32		0.00	4.03		0.00	4.03	0.00	57,671.85	57,671.85	1.11	1.06	58,022.84
University/College (4Yr)	1.04941e+008	0.57	5.14	4.32	0.03		0.00	0.39		0.00	0.39	0.00	5,600.05	5,600.05	0.11	0.10	5,634.13
Unrefrigerated Warehouse-No Rail	1.1367e+006	0.01	0.06	0.05	0.00		0.00	0.00		0.00	0.00	0.00	60.66	60.66	0.00	0.00	61.03
Total		11.37	99.38	58.17	0.60		0.00	7.85		0.00	7.85	0.00	112,430.01	112,430.01	2.15	2.05	113,114.24

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	kWh	tons/yr				MT/yr			
Apartments Mid Rise	7.18315e+007					20,893.69	0.94	0.36	21,024.64
City Park	0					0.00	0.00	0.00	0.00
Elementary School	5.89138e+006					1,713.63	0.08	0.03	1,724.37
General Light Industry	2.07093e+008					60,237.38	2.72	1.03	60,614.90
General Office Building	1.78255e+008					51,849.23	2.34	0.89	52,174.19
Golf Course	0					0.00	0.00	0.00	0.00
Government Office Building	1.81942e+007					5,292.15	0.24	0.09	5,325.32
High School	6.4984e+006					1,890.19	0.09	0.03	1,902.04
Junior College (2Yr)	1.22663e+007					3,567.90	0.16	0.06	3,590.26
Junior High School	2.62227e+006					762.74	0.03	0.01	767.52
Place of Worship	2.44075e+006					709.94	0.03	0.01	714.39
Regional Shopping Center	1.4371e+008					41,801.08	1.89	0.72	42,063.06
Single Family Housing	1.64935e+008					47,974.82	2.17	0.82	48,275.49
University/College (4Yr)	9.29648e+007					27,040.72	1.22	0.46	27,210.19
Unrefrigerated Warehouse-No Rail	1.23578e+006					359.45	0.02	0.01	361.71
Total						264,092.92	11.93	4.52	265,748.08

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	kWh	tons/yr				MT/yr			
Apartments Mid Rise	7.18315e+007					20,893.69	0.94	0.36	21,024.64
City Park	0					0.00	0.00	0.00	0.00
Elementary School	5.89138e+006					1,713.63	0.08	0.03	1,724.37
General Light Industry	2.07093e+008					60,237.38	2.72	1.03	60,614.90
General Office Building	1.78255e+008					51,849.23	2.34	0.89	52,174.19
Golf Course	0					0.00	0.00	0.00	0.00
Government Office Building	1.81942e+007					5,292.15	0.24	0.09	5,325.32
High School	6.4984e+006					1,890.19	0.09	0.03	1,902.04
Junior College (2Yr)	1.22663e+007					3,567.90	0.16	0.06	3,590.26
Junior High School	2.62227e+006					762.74	0.03	0.01	767.52
Place of Worship	2.44075e+006					709.94	0.03	0.01	714.39
Regional Shopping Center	1.4371e+008					41,801.08	1.89	0.72	42,063.06
Single Family Housing	1.64935e+008					47,974.82	2.17	0.82	48,275.49
University/College (4Yr)	9.29648e+007					27,040.72	1.22	0.46	27,210.19
Unrefrigerated Warehouse-No Rail	1.23578e+006					359.45	0.02	0.01	361.71
Total						264,092.92	11.93	4.52	265,748.08

6.0 Area Detail

6.1 Mitigation Measures Area

	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	714.65	12.74	1,035.00	0.50		0.00	48.92		0.00	48.90	4,887.25	29,319.29	34,206.54	16.33	0.68	34,759.03
Unmitigated	714.65	12.74	1,035.00	0.50		0.00	48.92		0.00	48.90	4,887.25	29,319.29	34,206.54	16.33	0.68	34,759.03
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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	91.29					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	444.01					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hearth	152.60	3.82	289.19	0.46		0.00	45.25		0.00	45.22	4,887.25	28,174.82	33,062.07	14.93	0.68	33,585.28
Landscaping	26.75	8.91	745.80	0.04		0.00	3.68		0.00	3.68	0.00	1,144.47	1,144.47	1.39	0.00	1,173.75
Total	714.65	12.73	1,034.99	0.50		0.00	48.93		0.00	48.90	4,887.25	29,319.29	34,206.54	16.32	0.68	34,759.03

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	91.29					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	444.01					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hearth	152.60	3.82	289.19	0.46		0.00	45.25		0.00	45.22	4,887.25	28,174.82	33,062.07	14.93	0.68	33,585.28
Landscaping	26.75	8.91	745.80	0.04		0.00	3.68		0.00	3.68	0.00	1,144.47	1,144.47	1.39	0.00	1,173.75
Total	714.65	12.73	1,034.99	0.50		0.00	48.93		0.00	48.90	4,887.25	29,319.29	34,206.54	16.32	0.68	34,759.03

7.0 Water Detail

7.1 Mitigation Measures Water

	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr				MT/yr			
Mitigated					463,583.55	3,617.80	97.13	569,668.11
Unmitigated					463,583.55	3,617.80	97.13	569,668.11
Total	NA	NA	NA	NA	NA	NA	NA	NA

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	tons/yr				MT/yr			
Apartments Mid Rise	1332.6 / 840.114					7,776.94	41.03	1.14	8,992.52
City Park	0 / 304.936					985.42	0.04	0.02	991.60
Elementary School	24.7224 / 63.5719					299.35	0.77	0.02	322.87
General Light Industry	110202 / 0					418,617.54	3,382.73	90.58	517,735.52
General Office Building	2028.3 / 1243.15					11,722.11	62.44	1.74	13,571.58
Golf Course	0 / 486.553					1,572.33	0.07	0.03	1,582.19
Government Office Building	231.399 / 141.825					1,337.32	7.12	0.20	1,548.32
High School	31.2268 / 80.2974					378.11	0.97	0.03	407.82

	Indoor/Outdoor Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	tons/yr				MT/yr			
Junior College (2Yr)	42.822 / 66.978					379.11	1.32	0.04	418.98
Junior High School	7.82545 / 20.1226					94.75	0.24	0.01	102.20
Place of Worship	8.26497 / 12.9273					73.17	0.26	0.01	80.87
Regional Shopping Center	831.642 / 509.716					4,806.29	25.60	0.71	5,564.61
Single Family Housing	1665.21 / 1049.8					9,718.04	51.27	1.43	11,237.03
University/College (4Yr)	77.0796 / 120.56					682.40	2.38	0.07	754.17
Unrefrigerated Warehouse-No Rail	1353.29 / 0					5,140.66	41.54	1.11	6,357.84
Total						463,583.54	3,617.78	97.14	569,668.12

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	tons/yr				MT/yr			
Apartments Mid Rise	1332.6 / 840.114					7,776.94	41.03	1.14	8,992.52
City Park	0 / 304.936					985.42	0.04	0.02	991.60
Elementary School	24.7224 / 63.5719					299.35	0.77	0.02	322.87
General Light Industry	110202 / 0					418,617.54	3,382.73	90.58	517,735.52
General Office Building	2028.3 / 1243.15					11,722.11	62.44	1.74	13,571.58

	Indoor/Outdoor Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	tons/yr				MT/yr			
Golf Course	0 / 486.553					1,572.33	0.07	0.03	1,582.19
Government Office Building	231.399 / 141.825					1,337.32	7.12	0.20	1,548.32
High School	31.2268 / 80.2974					378.11	0.97	0.03	407.82
Junior College (2Yr)	42.822 / 66.978					379.11	1.32	0.04	418.98
Junior High School	7.82545 / 20.1226					94.75	0.24	0.01	102.20
Place of Worship	8.26497 / 12.9273					73.17	0.26	0.01	80.87
Regional Shopping Center	831.642 / 509.716					4,806.29	25.60	0.71	5,564.61
Single Family Housing	1665.21 / 1049.8					9,718.04	51.27	1.43	11,237.03
University/College (4Yr)	77.0796 / 120.56					682.40	2.38	0.07	754.17
Unrefrigerated Warehouse-No Rail	1353.29 / 0					5,140.66	41.54	1.11	6,357.84
Total						463,583.54	3,617.78	97.14	569,668.12

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
	tons/yr				MT/yr			
Mitigated					281,274.07	16,622.82	0.00	630,353.33
Unmitigated					281,274.07	16,622.82	0.00	630,353.33
Total	NA	NA	NA	NA	NA	NA	NA	NA

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	tons	tons/yr				MT/yr			
Apartments Mid Rise	9408.38					1,909.82	112.87	0.00	4,280.02
City Park	22.01					4.47	0.26	0.00	10.01
Elementary School	1861.13					377.79	22.33	0.00	846.66
General Light Industry	1.30394e+006					264,688.33	15,642.63	0.00	593,183.60
General Office Building	10613.2					2,154.38	127.32	0.00	4,828.09
Golf Course	379.77					77.09	4.56	0.00	172.76
Government Office Building	1083.26					219.89	13.00	0.00	492.79
High School	1293.74					262.62	15.52	0.00	588.54

	Waste Disposed	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	tons	tons/yr				MT/yr			
Junior College (2Yr)	3650					740.92	43.79	0.00	1,660.44
Junior High School	589.11					119.58	7.07	0.00	268.00
Place of Worship	1505.65					305.63	18.06	0.00	684.94
Regional Shopping Center	11788.8					2,393.01	141.42	0.00	5,362.90
Single Family Housing	29969.4					6,083.51	359.53	0.00	13,633.54
University/College (4Yr)	6570					1,333.65	78.82	0.00	2,988.80
Unrefrigerated Warehouse-No Rail	2972.48					603.39	35.66	0.00	1,352.23
Total						281,274.08	16,622.84	0.00	630,353.32

8.2 Waste by Land Use

Mitigated

	Waste Disposed	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	tons	tons/yr				MT/yr			
Apartments Mid Rise	9408.38					1,909.82	112.87	0.00	4,280.02
City Park	22.01					4.47	0.26	0.00	10.01
Elementary School	1861.13					377.79	22.33	0.00	846.66
General Light Industry	1.30394e+006					264,688.33	15,642.63	0.00	593,183.60
General Office Building	10613.2					2,154.38	127.32	0.00	4,828.09

	Waste Disposed	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	tons	tons/yr				MT/yr			
Golf Course	379.77					77.09	4.56	0.00	172.76
Government Office Building	1083.26					219.89	13.00	0.00	492.79
High School	1293.74					262.62	15.52	0.00	588.54
Junior College (2Yr)	3650					740.92	43.79	0.00	1,660.44
Junior High School	589.11					119.58	7.07	0.00	268.00
Place of Worship	1505.65					305.63	18.06	0.00	684.94
Regional Shopping Center	11788.8					2,393.01	141.42	0.00	5,362.90
Single Family Housing	29969.4					6,083.51	359.53	0.00	13,633.54
University/College (4Yr)	6570					1,333.65	78.82	0.00	2,988.80
Unrefrigerated Warehouse-No Rail	2972.48					603.39	35.66	0.00	1,352.23
Total						281,274.08	16,622.84	0.00	630,353.32

9.0 Vegetation

Fullerton General Plan Update - Baseline
South Coast Air Basin, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric
Single Family Housing	25558	Dwelling Unit
Apartments Mid Rise	20453	Dwelling Unit
Elementary School	10198	Student
Junior High School	3228	Student
High School	7089	Student
Junior College (2Yr)	20000	Student
University/College (4Yr)	36000	Student
Place of Worship	264.15	1000sqft
City Park	255.93	Acre
Regional Shopping Center	11227.36	1000sqft
General Office Building	11411.99	1000sqft
Government Office Building	1164.8	1000sqft
General Light Industry	22412.7	1000sqft
Golf Course	408.36	Acre
Unrefrigerated Warehouse-No Rail	275.23	1000sqft

1.2 Other Project Characteristics

Urbanization Urban

Wind Speed (m/s) 2.2

Utility Company Southern California Edison

Climate Zone 8

Precipitation Freq (Days) 31

1.3 User Entered Comments

Project Characteristics -

Land Use - Warehouse=Airport Use

Construction Phase - No Construction
 Off-road Equipment -
 Off-road Equipment -
 Vehicle Trips - Warehouse=Airport Use
 Mobile Land Use Mitigation -

2.0 Emissions Summary

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	lb/day										lb/day					
Area	7,977.14	273.48	19,320.39	37.00		0.00	2,453.16		0.00	2,452.60	324,687.28	835,116.18		1,293.70	19.87	1,193,131.77
Energy	62.25	544.54	318.69	3.40		0.00	43.01		0.00	43.01		679,084.23		13.02	12.45	683,217.02
Mobile	8,696.86	19,769.22	87,077.53	106.06	11,260.21	701.31	11,961.51	157.89	664.04	821.93		11,284.317.46		652.62		11,298,022.57
Total	16,736.25	20,587.24	106,716.61	146.46	11,260.21	701.31	14,457.68	157.89	664.04	3,317.54	324,687.28	12,798,517.87		1,959.34	32.32	13,174,371.36

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	lb/day										lb/day					
Area	7,977.14	273.48	19,320.39	37.00		0.00	2,453.16		0.00	2,452.60	324,687.28	835,116.18		1,293.70	19.87	1,193,131.77
Energy	62.25	544.54	318.69	3.40		0.00	43.01		0.00	43.01		679,084.23		13.02	12.45	683,217.02
Mobile	8,696.86	19,769.22	87,077.53	106.06	11,260.21	701.31	11,961.51	157.89	664.04	821.93		11,284,317.46		652.62		11,298,022.57
Total	16,736.25	20,587.24	106,716.61	146.46	11,260.21	701.31	14,457.68	157.89	664.04	3,317.54	324,687.28	12,798,517.87		1,959.34	32.32	13,174,371.36

3.0 Construction Detail

3.1 Mitigation Measures Construction

4.0 Mobile Detail

4.1 Mitigation Measures Mobile

	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	lb/day										lb/day					
Mitigated	8,696.86	19,769.22	87,077.53	106.06	11,260.21	701.31	11,961.51	157.89	664.04	821.93		11,284,317.46		652.62		11,298,022.57
Unmitigated	8,696.86	19,769.22	87,077.53	106.06	11,260.21	701.31	11,961.51	157.89	664.04	821.93		11,284,317.46		652.62		11,298,022.57
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	141,125.70	146,443.48	124,149.71	396,083,822	396,083,822
City Park	406.93	406.93	406.93	868,733	868,733
Elementary School	13,155.42	0.00	0.00	20,719,214	20,719,214
General Light Industry	156,216.52	29,584.76	15,240.64	344,463,942	344,463,942
General Office Building	125,646.01	27,046.42	11,183.75	227,525,026	227,525,026
Golf Course	2,058.13	2,376.66	2401.16	3,890,424	3,890,424
Government Office Building	80,289.66	0.00	0.00	98,347,982	98,347,982
High School	12,122.19	4,324.29	1,772.25	24,950,139	24,950,139
Junior College (2Yr)	24,000.00	8,400.00	800.00	46,872,597	46,872,597
Junior High School	5,229.36	0.00	0.00	8,397,584	8,397,584
Place of Worship	2,406.41	2,739.24	9675.81	6,533,263	6,533,263
Regional Shopping Center	482,102.84	561,031.18	283,378.57	815,267,693	815,267,693
Single Family Housing	244,590.06	257,624.64	224,143.66	691,657,915	691,657,915
University/College (4Yr)	85,680.00	46,800.00	0.00	171,454,247	171,454,247

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Unrefrigerated Warehouse-No Rail	1,376.15	1,376.15	1376.15	4,017,685	4,017,685
Total	1,376,405.38	1,088,153.74	674,528.62	2,861,050,266	2,861,050,266

4.3 Trip Type Information

Land Use	Miles			Trip %		
	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
Apartments Mid Rise	10.80	7.30	7.50	40.20	19.20	40.60
City Park	9.50	7.30	7.30	33.00	48.00	19.00
Elementary School	9.50	7.30	7.30	65.00	30.00	5.00
General Light Industry	9.50	7.30	7.30	59.00	28.00	13.00
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00
Golf Course	9.50	7.30	7.30	33.00	48.00	19.00
Government Office Building	9.50	7.30	7.30	33.00	62.00	5.00
High School	9.50	7.30	7.30	77.80	17.20	5.00
Junior College (2Yr)	9.50	7.30	7.30	6.40	88.60	5.00
Junior High School	9.50	7.30	7.30	72.80	22.20	5.00
Place of Worship	9.50	7.30	7.30	0.00	95.00	5.00
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00
Single Family Housing	10.80	7.30	7.50	40.20	19.20	40.60
University/College (4Yr)	9.50	7.30	7.30	6.40	88.60	5.00
Unrefrigerated Warehouse-No Rail	9.50	7.30	7.30	59.00	0.00	41.00

5.0 Energy Detail

5.1 Mitigation Measures Energy

	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	lb/day										lb/day					
NaturalGas Mitigated	62.25	544.54	318.69	3.40		0.00	43.01		0.00	43.01		679,084.23		13.02	12.45	683,217.02
NaturalGas Unmitigated	62.25	544.54	318.69	3.40		0.00	43.01		0.00	43.01		679,084.23		13.02	12.45	683,217.02
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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	lb/day										lb/day					
Apartments Mid Rise	670930	7.24	61.83	26.31	0.39		0.00	5.00		0.00	5.00		78,932.96		1.51	1.45	79,413.33
City Park	0	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00	0.00	0.00
Elementary School	28988	0.31	2.84	2.39	0.02		0.00	0.22		0.00	0.22		3,410.35		0.07	0.06	3,431.10
General Light Industry	1.3288e+006	14.33	130.27	109.43	0.78		0.00	9.90		0.00	9.90		156,329.03		3.00	2.87	157,280.43
General Office Building	299838	3.23	29.40	24.69	0.18		0.00	2.23		0.00	2.23		35,275.10		0.68	0.65	35,489.77
Golf Course	0	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00	0.00	0.00
Government Office Building	30603.9	0.33	3.00	2.52	0.02		0.00	0.23		0.00	0.23		3,600.46		0.07	0.07	3,622.37

	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	lb/day										lb/day					
High School	31974.7	0.34	3.13	2.63	0.02		0.00	0.24		0.00	0.24		3,761.73		0.07	0.07	3,784.63
Junior College (2Yr)	37935.6	0.41	3.72	3.12	0.02		0.00	0.28		0.00	0.28		4,463.01		0.09	0.08	4,490.17
Junior High School	12902.6	0.14	1.26	1.06	0.01		0.00	0.10		0.00	0.10		1,517.96		0.03	0.03	1,527.19
Place of Worship	15660.8	0.17	1.54	1.29	0.01		0.00	0.12		0.00	0.12		1,842.45		0.04	0.03	1,853.66
Regional Shopping Center	63057.8	0.68	6.18	5.19	0.04		0.00	0.47		0.00	0.47		7,418.56		0.14	0.14	7,463.71
Single Family Housing	2.9609e+006	31.93	272.87	116.11	1.74		0.00	22.06		0.00	22.06		348,341.58		6.68	6.39	350,461.53
University/College (4Yr)	287510	3.10	28.19	23.68	0.17		0.00	2.14		0.00	2.14		33,824.66		0.65	0.62	34,030.51
Unrefrigerated Warehouse-No Rail	3114.25	0.03	0.31	0.26	0.00		0.00	0.02		0.00	0.02		366.38		0.01	0.01	368.61
Total		62.24	544.54	318.68	3.40		0.00	43.01		0.00	43.01		679,084.23		13.04	12.47	683,217.01

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	lb/day										lb/day					
Apartments Mid Rise	670.93	7.24	61.83	26.31	0.39		0.00	5.00		0.00	5.00		78,932.96		1.51	1.45	79,413.33
City Park	0	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00	0.00	0.00
Elementary School	28.988	0.31	2.84	2.39	0.02		0.00	0.22		0.00	0.22		3,410.35		0.07	0.06	3,431.10
General Light Industry	1328.8	14.33	130.27	109.43	0.78		0.00	9.90		0.00	9.90		156,329.03		3.00	2.87	157,280.43

	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	lb/day										lb/day					
General Office Building	299.838	3.23	29.40	24.69	0.18		0.00	2.23		0.00	2.23		35,275.10		0.68	0.65	35,489.77
Golf Course	0	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00	0.00	0.00
Government Office Building	30.6039	0.33	3.00	2.52	0.02		0.00	0.23		0.00	0.23		3,600.46		0.07	0.07	3,622.37
High School	31.9747	0.34	3.13	2.63	0.02		0.00	0.24		0.00	0.24		3,761.73		0.07	0.07	3,784.63
Junior College (2Yr)	37.9356	0.41	3.72	3.12	0.02		0.00	0.28		0.00	0.28		4,463.01		0.09	0.08	4,490.17
Junior High School	12.9026	0.14	1.26	1.06	0.01		0.00	0.10		0.00	0.10		1,517.96		0.03	0.03	1,527.19
Place of Worship	15.6608	0.17	1.54	1.29	0.01		0.00	0.12		0.00	0.12		1,842.45		0.04	0.03	1,853.66
Regional Shopping Center	63.0578	0.68	6.18	5.19	0.04		0.00	0.47		0.00	0.47		7,418.56		0.14	0.14	7,463.71
Single Family Housing	2960.9	31.93	272.87	116.11	1.74		0.00	22.06		0.00	22.06		348,341.58		6.68	6.39	350,461.53
University/College (4Yr)	287.51	3.10	28.19	23.68	0.17		0.00	2.14		0.00	2.14		33,824.66		0.65	0.62	34,030.51
Unrefrigerated Warehouse-No Rail	3.11425	0.03	0.31	0.26	0.00		0.00	0.02		0.00	0.02		366.38		0.01	0.01	368.61
Total		62.24	544.54	318.68	3.40		0.00	43.01		0.00	43.01		679,084.23		13.04	12.47	683,217.01

6.0 Area Detail

6.1 Mitigation Measures Area

	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	lb/day										lb/day					
Mitigated	7,977.14	273.48	19,320.39	37.00		0.00	2,453.16		0.00	2,452.60	324,687.28	835,116.18		1,293.70	19.87	1,193,131.77
Unmitigated	7,977.14	273.48	19,320.39	37.00		0.00	2,453.16		0.00	2,452.60	324,687.28	835,116.18		1,293.70	19.87	1,193,131.77
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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	lb/day										lb/day					
Architectural Coating	500.20					0.00	0.00		0.00	0.00						0.00
Consumer Products	2,432.94					0.00	0.00		0.00	0.00						0.00
Hearth	4,897.32	224.62	15,230.03	36.79		0.00	2,433.01		0.00	2,432.45	324,687.28	828,198.00		1,285.27	19.87	1,186,036.59
Landscaping	146.67	48.87	4,090.36	0.20		0.00	20.15		0.00	20.15		6,918.18		8.43		7,095.18
Total	7,977.13	273.49	19,320.39	36.99		0.00	2,453.16		0.00	2,452.60	324,687.28	835,116.18		1,293.70	19.87	1,193,131.77

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	lb/day										lb/day					
Architectural Coating	500.20					0.00	0.00		0.00	0.00						0.00
Consumer Products	2,432.94					0.00	0.00		0.00	0.00						0.00
Hearth	4,897.32	224.62	15,230.03	36.79		0.00	2,433.01		0.00	2,432.45	324,687.28	828,198.00		1,285.27	19.87	1,186,036.59
Landscaping	146.67	48.87	4,090.36	0.20		0.00	20.15		0.00	20.15		6,918.18		8.43		7,095.18
Total	7,977.13	273.49	19,320.39	36.99		0.00	2,453.16		0.00	2,452.60	324,687.28	835,116.18		1,293.70	19.87	1,193,131.77

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Vegetation

Fullerton General Plan Update - Baseline
South Coast Air Basin, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric
Single Family Housing	25558	Dwelling Unit
Apartments Mid Rise	20453	Dwelling Unit
Elementary School	10198	Student
Junior High School	3228	Student
High School	7089	Student
Junior College (2Yr)	20000	Student
University/College (4Yr)	36000	Student
Place of Worship	264.15	1000sqft
City Park	255.93	Acre
Regional Shopping Center	11227.36	1000sqft
General Office Building	11411.99	1000sqft
Government Office Building	1164.8	1000sqft
General Light Industry	22412.7	1000sqft
Golf Course	408.36	Acre
Unrefrigerated Warehouse-No Rail	275.23	1000sqft

1.2 Other Project Characteristics

Urbanization Urban

Wind Speed (m/s) 2.2

Utility Company Southern California Edison

Climate Zone 8

Precipitation Freq (Days) 31

1.3 User Entered Comments

Project Characteristics -

Land Use - Warehouse=Airport Use

Construction Phase - No Construction
 Off-road Equipment -
 Off-road Equipment -
 Vehicle Trips - Warehouse=Airport Use
 Mobile Land Use Mitigation -

2.0 Emissions Summary

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	lb/day										lb/day					
Area	7,977.14	273.48	19,320.39	37.00		0.00	2,453.16		0.00	2,452.60	324,687.28	835,116.18		1,293.70	19.87	1,193,131.77
Energy	62.25	544.54	318.69	3.40		0.00	43.01		0.00	43.01		679,084.23		13.02	12.45	683,217.02
Mobile	9,072.66	21,507.69	86,191.19	98.05	11,260.21	709.68	11,969.88	157.89	671.71	829.60		10,489,659.40		659.03		10,503,499.08
Total	17,112.05	22,325.71	105,830.27	138.45	11,260.21	709.68	14,466.05	157.89	671.71	3,325.21	324,687.28	12,003,859.81		1,965.75	32.32	12,379,847.87

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	lb/day										lb/day					
Area	7,977.14	273.48	19,320.39	37.00		0.00	2,453.16		0.00	2,452.60	324,687.28	835,116.18		1,293.70	19.87	1,193,131.77
Energy	62.25	544.54	318.69	3.40		0.00	43.01		0.00	43.01		679,084.23		13.02	12.45	683,217.02
Mobile	9,072.66	21,507.69	86,191.19	98.05	11,260.21	709.68	11,969.88	157.89	671.71	829.60		10,489,659.40		659.03		10,503,499.08
Total	17,112.05	22,325.71	105,830.27	138.45	11,260.21	709.68	14,466.05	157.89	671.71	3,325.21	324,687.28	12,003,859.81		1,965.75	32.32	12,379,847.87

3.0 Construction Detail

3.1 Mitigation Measures Construction

4.0 Mobile Detail

4.1 Mitigation Measures Mobile

	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	lb/day										lb/day					
Mitigated	9,072.66	21,507.69	86,191.19	98.05	11,260.21	709.68	11,969.88	157.89	671.71	829.60		10,489,659.40		659.03		10,503,499.08
Unmitigated	9,072.66	21,507.69	86,191.19	98.05	11,260.21	709.68	11,969.88	157.89	671.71	829.60		10,489,659.40		659.03		10,503,499.08
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	141,125.70	146,443.48	124,149.71	396,083,822	396,083,822
City Park	406.93	406.93	406.93	868,733	868,733
Elementary School	13,155.42	0.00	0.00	20,719,214	20,719,214
General Light Industry	156,216.52	29,584.76	15,240.64	344,463,942	344,463,942
General Office Building	125,646.01	27,046.42	11,183.75	227,525,026	227,525,026
Golf Course	2,058.13	2,376.66	2401.16	3,890,424	3,890,424
Government Office Building	80,289.66	0.00	0.00	98,347,982	98,347,982
High School	12,122.19	4,324.29	1,772.25	24,950,139	24,950,139
Junior College (2Yr)	24,000.00	8,400.00	800.00	46,872,597	46,872,597
Junior High School	5,229.36	0.00	0.00	8,397,584	8,397,584
Place of Worship	2,406.41	2,739.24	9675.81	6,533,263	6,533,263
Regional Shopping Center	482,102.84	561,031.18	283,378.57	815,267,693	815,267,693
Single Family Housing	244,590.06	257,624.64	224,143.66	691,657,915	691,657,915
University/College (4Yr)	85,680.00	46,800.00	0.00	171,454,247	171,454,247

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Unrefrigerated Warehouse-No Rail	1,376.15	1,376.15	1376.15	4,017,685	4,017,685
Total	1,376,405.38	1,088,153.74	674,528.62	2,861,050,266	2,861,050,266

4.3 Trip Type Information

Land Use	Miles			Trip %		
	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
Apartments Mid Rise	10.80	7.30	7.50	40.20	19.20	40.60
City Park	9.50	7.30	7.30	33.00	48.00	19.00
Elementary School	9.50	7.30	7.30	65.00	30.00	5.00
General Light Industry	9.50	7.30	7.30	59.00	28.00	13.00
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00
Golf Course	9.50	7.30	7.30	33.00	48.00	19.00
Government Office Building	9.50	7.30	7.30	33.00	62.00	5.00
High School	9.50	7.30	7.30	77.80	17.20	5.00
Junior College (2Yr)	9.50	7.30	7.30	6.40	88.60	5.00
Junior High School	9.50	7.30	7.30	72.80	22.20	5.00
Place of Worship	9.50	7.30	7.30	0.00	95.00	5.00
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00
Single Family Housing	10.80	7.30	7.50	40.20	19.20	40.60
University/College (4Yr)	9.50	7.30	7.30	6.40	88.60	5.00
Unrefrigerated Warehouse-No Rail	9.50	7.30	7.30	59.00	0.00	41.00

5.0 Energy Detail

5.1 Mitigation Measures Energy

	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	lb/day										lb/day					
NaturalGas Mitigated	62.25	544.54	318.69	3.40		0.00	43.01		0.00	43.01		679,084.23		13.02	12.45	683,217.02
NaturalGas Unmitigated	62.25	544.54	318.69	3.40		0.00	43.01		0.00	43.01		679,084.23		13.02	12.45	683,217.02
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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	lb/day										lb/day					
Apartments Mid Rise	670930	7.24	61.83	26.31	0.39		0.00	5.00		0.00	5.00		78,932.96		1.51	1.45	79,413.33
City Park	0	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00	0.00	0.00
Elementary School	28988	0.31	2.84	2.39	0.02		0.00	0.22		0.00	0.22		3,410.35		0.07	0.06	3,431.10
General Light Industry	1.3288e+006	14.33	130.27	109.43	0.78		0.00	9.90		0.00	9.90		156,329.03		3.00	2.87	157,280.43
General Office Building	299838	3.23	29.40	24.69	0.18		0.00	2.23		0.00	2.23		35,275.10		0.68	0.65	35,489.77
Golf Course	0	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00	0.00	0.00
Government Office Building	30603.9	0.33	3.00	2.52	0.02		0.00	0.23		0.00	0.23		3,600.46		0.07	0.07	3,622.37

	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	lb/day										lb/day					
High School	31974.7	0.34	3.13	2.63	0.02		0.00	0.24		0.00	0.24		3,761.73		0.07	0.07	3,784.63
Junior College (2Yr)	37935.6	0.41	3.72	3.12	0.02		0.00	0.28		0.00	0.28		4,463.01		0.09	0.08	4,490.17
Junior High School	12902.6	0.14	1.26	1.06	0.01		0.00	0.10		0.00	0.10		1,517.96		0.03	0.03	1,527.19
Place of Worship	15660.8	0.17	1.54	1.29	0.01		0.00	0.12		0.00	0.12		1,842.45		0.04	0.03	1,853.66
Regional Shopping Center	63057.8	0.68	6.18	5.19	0.04		0.00	0.47		0.00	0.47		7,418.56		0.14	0.14	7,463.71
Single Family Housing	2.9609e+006	31.93	272.87	116.11	1.74		0.00	22.06		0.00	22.06		348,341.58		6.68	6.39	350,461.53
University/College (4Yr)	287510	3.10	28.19	23.68	0.17		0.00	2.14		0.00	2.14		33,824.66		0.65	0.62	34,030.51
Unrefrigerated Warehouse-No Rail	3114.25	0.03	0.31	0.26	0.00		0.00	0.02		0.00	0.02		366.38		0.01	0.01	368.61
Total		62.24	544.54	318.68	3.40		0.00	43.01		0.00	43.01		679,084.23		13.04	12.47	683,217.01

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	lb/day										lb/day					
Apartments Mid Rise	670.93	7.24	61.83	26.31	0.39		0.00	5.00		0.00	5.00		78,932.96		1.51	1.45	79,413.33
City Park	0	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00	0.00	0.00
Elementary School	28.988	0.31	2.84	2.39	0.02		0.00	0.22		0.00	0.22		3,410.35		0.07	0.06	3,431.10
General Light Industry	1328.8	14.33	130.27	109.43	0.78		0.00	9.90		0.00	9.90		156,329.03		3.00	2.87	157,280.43

	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	lb/day										lb/day					
General Office Building	299.838	3.23	29.40	24.69	0.18		0.00	2.23		0.00	2.23		35,275.10		0.68	0.65	35,489.77
Golf Course	0	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00	0.00	0.00
Government Office Building	30.6039	0.33	3.00	2.52	0.02		0.00	0.23		0.00	0.23		3,600.46		0.07	0.07	3,622.37
High School	31.9747	0.34	3.13	2.63	0.02		0.00	0.24		0.00	0.24		3,761.73		0.07	0.07	3,784.63
Junior College (2Yr)	37.9356	0.41	3.72	3.12	0.02		0.00	0.28		0.00	0.28		4,463.01		0.09	0.08	4,490.17
Junior High School	12.9026	0.14	1.26	1.06	0.01		0.00	0.10		0.00	0.10		1,517.96		0.03	0.03	1,527.19
Place of Worship	15.6608	0.17	1.54	1.29	0.01		0.00	0.12		0.00	0.12		1,842.45		0.04	0.03	1,853.66
Regional Shopping Center	63.0578	0.68	6.18	5.19	0.04		0.00	0.47		0.00	0.47		7,418.56		0.14	0.14	7,463.71
Single Family Housing	2960.9	31.93	272.87	116.11	1.74		0.00	22.06		0.00	22.06		348,341.58		6.68	6.39	350,461.53
University/College (4Yr)	287.51	3.10	28.19	23.68	0.17		0.00	2.14		0.00	2.14		33,824.66		0.65	0.62	34,030.51
Unrefrigerated Warehouse-No Rail	3.11425	0.03	0.31	0.26	0.00		0.00	0.02		0.00	0.02		366.38		0.01	0.01	368.61
Total		62.24	544.54	318.68	3.40		0.00	43.01		0.00	43.01		679,084.23		13.04	12.47	683,217.01

6.0 Area Detail

6.1 Mitigation Measures Area

	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	lb/day										lb/day					
Mitigated	7,977.14	273.48	19,320.39	37.00		0.00	2,453.16		0.00	2,452.60	324,687.28	835,116.18		1,293.70	19.87	1,193,131.77
Unmitigated	7,977.14	273.48	19,320.39	37.00		0.00	2,453.16		0.00	2,452.60	324,687.28	835,116.18		1,293.70	19.87	1,193,131.77
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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	lb/day										lb/day					
Architectural Coating	500.20					0.00	0.00		0.00	0.00						0.00
Consumer Products	2,432.94					0.00	0.00		0.00	0.00						0.00
Hearth	4,897.32	224.62	15,230.03	36.79		0.00	2,433.01		0.00	2,432.45	324,687.28	828,198.00		1,285.27	19.87	1,186,036.59
Landscaping	146.67	48.87	4,090.36	0.20		0.00	20.15		0.00	20.15		6,918.18		8.43		7,095.18
Total	7,977.13	273.49	19,320.39	36.99		0.00	2,453.16		0.00	2,452.60	324,687.28	835,116.18		1,293.70	19.87	1,193,131.77

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	lb/day										lb/day					
Architectural Coating	500.20					0.00	0.00		0.00	0.00						0.00
Consumer Products	2,432.94					0.00	0.00		0.00	0.00						0.00
Hearth	4,897.32	224.62	15,230.03	36.79		0.00	2,433.01		0.00	2,432.45	324,687.28	828,198.00		1,285.27	19.87	1,186,036.59
Landscaping	146.67	48.87	4,090.36	0.20		0.00	20.15		0.00	20.15		6,918.18		8.43		7,095.18
Total	7,977.13	273.49	19,320.39	36.99		0.00	2,453.16		0.00	2,452.60	324,687.28	835,116.18		1,293.70	19.87	1,193,131.77

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Vegetation

**Parenthetical CALEEMod Assumptions
City of Fullerton Buildout Conditions
Date: April 2011**

LAND USES

Units	Land Use Type	Unit Type	Trip Rate
25,980	Single Family Housing	Dwelling Units	9.57
31,074	Multifamily Housing	Dwelling Units	6.90
10,198	Elementary School	Students	1.29
3,228	Junior High School	Students	1.62
7,089	High School	Students	1.71
20,000	Junior College	Students	1.20
36,000	University/College	Students	2.38
253.90	Places of Worship	1,000 square feet	9.11
255.93	City Park	Acres	1.59
22,082.38	Shopping Center	1,000 square feet	42.94
12,411.25	General Office	1,000 square feet	11.01
1,199.46	Government	1,000 square feet	68.93
25,690.60	General Light Industry	1,000 square feet	6.97
408.36	Golf Course	Acres	5.04
275.23	Airport	1,000 square feet	5.00

AREA AND MOBILE SOURCES

CalEEMod area source and operational defaults rates have been utilized. Default rates have not been modified.

**Fullerton General Plan Update - Buildout
South Coast Air Basin, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric
Single Family Housing	25980	Dwelling Unit
Apartments Mid Rise	31074	Dwelling Unit
Elementary School	10198	Student
Junior High School	3228	Student
High School	7089	Student
Junior College (2Yr)	20000	Student
University/College (4Yr)	36000	Student
Place of Worship	253.9	1000sqft
City Park	255.93	Acre
Regional Shopping Center	22082.38	1000sqft
General Office Building	12411.25	1000sqft
Government Office Building	1199.46	1000sqft
General Light Industry	25690.6	1000sqft
Golf Course	408.36	Acre
Unrefrigerated Warehouse-No Rail	275.23	1000sqft

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Utility Company
Climate Zone	8	Precipitation Freq (Days)	31	

1.3 User Entered Comments

Project Characteristics -

Land Use -

Construction Phase - No Construction
 Vehicle Trips - Warehouse=Airport Use

2.0 Emissions Summary

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	868.30	14.69	1,224.55	0.62		0.00	60.90		0.00	60.87	6,060.22	36,356.15	42,416.37	19.87	0.84	43,093.51
Energy	12.70	111.10	65.24	0.69		0.00	8.77		0.00	8.77	0.00	125,658.51	125,658.51	2.41	2.30	126,423.24
Mobile	724.46	1,733.47	5,908.47	21.38	2,140.50	103.01	2,243.51	33.75	100.21	133.96	0.00	1,549,926.75	1,549,926.75	44.83	0.00	1,550,868.11
Waste						0.00	0.00		0.00	0.00	323,574.42	0.00	323,574.42	19,122.70	0.00	725,151.13
Water						0.00	0.00		0.00	0.00	0.00	1,521.51	1,521.51	4,140.99	102.70	120,317.96
Total	1,605.46	1,859.26	7,198.26	22.69	2,140.50	103.01	2,313.18	33.75	100.21	203.60	329,634.64	1,713,462.92	2,043,097.56	23,330.80	105.84	2,565,853.95

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	868.30	14.69	1,224.55	0.62		0.00	60.90		0.00	60.87	6,060.22	36,356.15	42,416.37	19.87	0.84	43,093.51
Energy	12.70	111.10	65.24	0.69		0.00	8.77		0.00	8.77	0.00	125,658.51	125,658.51	2.41	2.30	126,423.24
Mobile	724.46	1,733.47	5,908.47	21.38	2,140.50	103.01	2,243.51	33.75	100.21	133.96	0.00	1,549,926.75	1,549,926.75	44.83	0.00	1,550,868.11
Waste						0.00	0.00		0.00	0.00	323,574.42	0.00	323,574.42	19,122.70	0.00	725,151.13
Water						0.00	0.00		0.00	0.00	0.00	1,521.51	1,521.51	4,140.99	102.70	120,317.96
Total	1,605.46	1,859.26	7,198.26	22.69	2,140.50	103.01	2,313.18	33.75	100.21	203.60	329,634.64	1,713,462.92	2,043,097.56	23,330.80	105.84	2,565,853.95

3.0 Construction Detail

3.1 Mitigation Measures Construction

4.0 Mobile Detail

4.1 Mitigation Measures Mobile

	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	724.46	1,733.47	5,908.47	21.38	2,140.50	103.01	2,243.51	33.75	100.21	133.96	0.00	1,549,926.75	1,549,926.75	44.83	0.00	1,550,868.11
Unmitigated	724.46	1,733.47	5,908.47	21.38	2,140.50	103.01	2,243.51	33.75	100.21	133.96	0.00	1,549,926.75	1,549,926.75	44.83	0.00	1,550,868.11
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	214,410.60	222,489.84	188,619.18	601,765,447	601,765,447
City Park	406.93	406.93	406.93	868,733	868,733
Elementary School	13,155.42	0.00	0.00	20,719,214	20,719,214
General Light Industry	179,063.48	33,911.59	17,469.61	394,842,448	394,842,448
General Office Building	136,647.86	29,414.66	12,163.03	247,447,639	247,447,639
Golf Course	2,058.13	2,376.66	2401.16	3,890,424	3,890,424
Government Office Building	82,678.78	0.00	0.00	101,274,442	101,274,442
High School	12,122.19	4,324.29	1,772.25	24,950,139	24,950,139
Junior College (2Yr)	24,000.00	8,400.00	800.00	46,872,597	46,872,597
Junior High School	5,229.36	0.00	0.00	8,397,584	8,397,584
Place of Worship	2,313.03	2,632.94	9300.36	6,279,748	6,279,748
Regional Shopping Center	948,217.40	1,103,456.53	557,359.27	1,603,498,150	1,603,498,150
Single Family Housing	248,628.60	261,878.40	227,844.60	703,078,200	703,078,200
University/College (4Yr)	85,680.00	46,800.00	0.00	171,454,247	171,454,247

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Unrefrigerated Warehouse-No Rail	1,376.15	1,376.15	1376.15	4,017,685	4,017,685
Total	1,955,987.93	1,717,467.99	1,019,512.53	3,939,356,698	3,939,356,698

4.3 Trip Type Information

Land Use	Miles			Trip %		
	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
Apartments Mid Rise	10.80	7.30	7.50	40.20	19.20	40.60
City Park	9.50	7.30	7.30	33.00	48.00	19.00
Elementary School	9.50	7.30	7.30	65.00	30.00	5.00
General Light Industry	9.50	7.30	7.30	59.00	28.00	13.00
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00
Golf Course	9.50	7.30	7.30	33.00	48.00	19.00
Government Office Building	9.50	7.30	7.30	33.00	62.00	5.00
High School	9.50	7.30	7.30	77.80	17.20	5.00
Junior College (2Yr)	9.50	7.30	7.30	6.40	88.60	5.00
Junior High School	9.50	7.30	7.30	72.80	22.20	5.00
Place of Worship	9.50	7.30	7.30	0.00	95.00	5.00
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00
Single Family Housing	10.80	7.30	7.50	40.20	19.20	40.60
University/College (4Yr)	9.50	7.30	7.30	6.40	88.60	5.00
Unrefrigerated Warehouse-No Rail	9.50	7.30	7.30	59.00	0.00	41.00

5.0 Energy Detail

5.1 Mitigation Measures Energy

	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						0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electricity Unmitigated						0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NaturalGas Mitigated	12.70	111.10	65.24	0.69		0.00	8.77		0.00	8.77	0.00	125,658.51	125,658.51	2.41	2.30	126,423.24
NaturalGas Unmitigated	12.70	111.10	65.24	0.69		0.00	8.77		0.00	8.77	0.00	125,658.51	125,658.51	2.41	2.30	126,423.24
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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	tons/yr										MT/yr					
Apartments Mid Rise	3.72058e+008	2.01	17.14	7.30	0.11		0.00	1.39		0.00	1.39	0.00	19,854.42	19,854.42	0.38	0.36	19,975.25
City Park	0	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
Elementary School	1.05806e+007	0.06	0.52	0.44	0.00		0.00	0.04		0.00	0.04	0.00	564.62	564.62	0.01	0.01	568.06
General Light Industry	5.55945e+008	3.00	27.25	22.89	0.16		0.00	2.07		0.00	2.07	0.00	29,667.32	29,667.32	0.57	0.54	29,847.87
General Office Building	1.19024e+008	0.64	5.83	4.90	0.04		0.00	0.44		0.00	0.44	0.00	6,351.57	6,351.57	0.12	0.12	6,390.22

	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	tons/yr										MT/yr					
Golf Course	0	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
Government Office Building	1.15028e+007	0.06	0.56	0.47	0.00		0.00	0.04		0.00	0.04	0.00	613.83	613.83	0.01	0.01	617.57
High School	1.16708e+007	0.06	0.57	0.48	0.00		0.00	0.04		0.00	0.04	0.00	622.80	622.80	0.01	0.01	626.59
Junior College (2Yr)	1.38465e+007	0.07	0.68	0.57	0.00		0.00	0.05		0.00	0.05	0.00	738.90	738.90	0.01	0.01	743.40
Junior High School	4.70946e+006	0.03	0.23	0.19	0.00		0.00	0.02		0.00	0.02	0.00	251.31	251.31	0.00	0.00	252.84
Place of Worship	5.4944e+006	0.03	0.27	0.23	0.00		0.00	0.02		0.00	0.02	0.00	293.20	293.20	0.01	0.01	294.99
Regional Shopping Center	4.52689e+007	0.24	2.22	1.86	0.01		0.00	0.17		0.00	0.17	0.00	2,415.72	2,415.72	0.05	0.04	2,430.42
Single Family Housing	1.09857e+009	5.92	50.62	21.54	0.32		0.00	4.09		0.00	4.09	0.00	58,624.10	58,624.10	1.12	1.07	58,980.88
University/College (4Yr)	1.04941e+008	0.57	5.14	4.32	0.03		0.00	0.39		0.00	0.39	0.00	5,600.05	5,600.05	0.11	0.10	5,634.13
Unrefrigerated Warehouse-No Rail	1.1367e+006	0.01	0.06	0.05	0.00		0.00	0.00		0.00	0.00	0.00	60.66	60.66	0.00	0.00	61.03
Total		12.70	111.09	65.24	0.67		0.00	8.76		0.00	8.76	0.00	125,658.50	125,658.50	2.40	2.28	126,423.25

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	tons/yr										MT/yr					
Apartments Mid Rise	3.72058e+008	2.01	17.14	7.30	0.11		0.00	1.39		0.00	1.39	0.00	19,854.42	19,854.42	0.38	0.36	19,975.25
City Park	0	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

	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	tons/yr										MT/yr					
Elementary School	1.05806e+007	0.06	0.52	0.44	0.00		0.00	0.04		0.00	0.04	0.00	564.62	564.62	0.01	0.01	568.06
General Light Industry	5.55945e+008	3.00	27.25	22.89	0.16		0.00	2.07		0.00	2.07	0.00	29,667.32	29,667.32	0.57	0.54	29,847.87
General Office Building	1.19024e+008	0.64	5.83	4.90	0.04		0.00	0.44		0.00	0.44	0.00	6,351.57	6,351.57	0.12	0.12	6,390.22
Golf Course	0	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
Government Office Building	1.15028e+007	0.06	0.56	0.47	0.00		0.00	0.04		0.00	0.04	0.00	613.83	613.83	0.01	0.01	617.57
High School	1.16708e+007	0.06	0.57	0.48	0.00		0.00	0.04		0.00	0.04	0.00	622.80	622.80	0.01	0.01	626.59
Junior College (2Yr)	1.38465e+007	0.07	0.68	0.57	0.00		0.00	0.05		0.00	0.05	0.00	738.90	738.90	0.01	0.01	743.40
Junior High School	4.70946e+006	0.03	0.23	0.19	0.00		0.00	0.02		0.00	0.02	0.00	251.31	251.31	0.00	0.00	252.84
Place of Worship	5.4944e+006	0.03	0.27	0.23	0.00		0.00	0.02		0.00	0.02	0.00	293.20	293.20	0.01	0.01	294.99
Regional Shopping Center	4.52689e+007	0.24	2.22	1.86	0.01		0.00	0.17		0.00	0.17	0.00	2,415.72	2,415.72	0.05	0.04	2,430.42
Single Family Housing	1.09857e+009	5.92	50.62	21.54	0.32		0.00	4.09		0.00	4.09	0.00	58,624.10	58,624.10	1.12	1.07	58,980.88
University/College (4Yr)	1.04941e+008	0.57	5.14	4.32	0.03		0.00	0.39		0.00	0.39	0.00	5,600.05	5,600.05	0.11	0.10	5,634.13
Unrefrigerated Warehouse-No Rail	1.1367e+006	0.01	0.06	0.05	0.00		0.00	0.00		0.00	0.00	0.00	60.66	60.66	0.00	0.00	61.03
Total		12.70	111.09	65.24	0.67		0.00	8.76		0.00	8.76	0.00	125,658.50	125,658.50	2.40	2.28	126,423.25

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	kWh	tons/yr				MT/yr			
Apartments Mid Rise	1.09133e+008					0.00	0.00	0.00	0.00
City Park	0					0.00	0.00	0.00	0.00
Elementary School	5.89138e+006					0.00	0.00	0.00	0.00
General Light Industry	2.37381e+008					0.00	0.00	0.00	0.00
General Office Building	1.93864e+008					0.00	0.00	0.00	0.00
Golf Course	0					0.00	0.00	0.00	0.00
Government Office Building	1.87356e+007					0.00	0.00	0.00	0.00
High School	6.4984e+006					0.00	0.00	0.00	0.00
Junior College (2Yr)	1.22663e+007					0.00	0.00	0.00	0.00
Junior High School	2.62227e+006					0.00	0.00	0.00	0.00
Place of Worship	2.34604e+006					0.00	0.00	0.00	0.00
Regional Shopping Center	2.82654e+008					0.00	0.00	0.00	0.00
Single Family Housing	1.67659e+008					0.00	0.00	0.00	0.00
University/College (4Yr)	9.29648e+007					0.00	0.00	0.00	0.00
Unrefrigerated Warehouse-No Rail	1.23578e+006					0.00	0.00	0.00	0.00
Total						0.00	0.00	0.00	0.00

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	kWh	tons/yr				MT/yr			
Apartments Mid Rise	1.09133e+008					0.00	0.00	0.00	0.00
City Park	0					0.00	0.00	0.00	0.00
Elementary School	5.89138e+006					0.00	0.00	0.00	0.00
General Light Industry	2.37381e+008					0.00	0.00	0.00	0.00
General Office Building	1.93864e+008					0.00	0.00	0.00	0.00
Golf Course	0					0.00	0.00	0.00	0.00
Government Office Building	1.87356e+007					0.00	0.00	0.00	0.00
High School	6.4984e+006					0.00	0.00	0.00	0.00
Junior College (2Yr)	1.22663e+007					0.00	0.00	0.00	0.00
Junior High School	2.62227e+006					0.00	0.00	0.00	0.00
Place of Worship	2.34604e+006					0.00	0.00	0.00	0.00
Regional Shopping Center	2.82654e+008					0.00	0.00	0.00	0.00
Single Family Housing	1.67659e+008					0.00	0.00	0.00	0.00
University/College (4Yr)	9.29648e+007					0.00	0.00	0.00	0.00
Unrefrigerated Warehouse-No Rail	1.23578e+006					0.00	0.00	0.00	0.00
Total						0.00	0.00	0.00	0.00

6.0 Area Detail

6.1 Mitigation Measures Area

	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	868.30	14.69	1,224.55	0.62		0.00	60.90		0.00	60.87	6,060.22	36,356.15	42,416.37	19.87	0.84	43,093.51
Unmitigated	868.30	14.69	1,224.55	0.62		0.00	60.90		0.00	60.87	6,060.22	36,356.15	42,416.37	19.87	0.84	43,093.51
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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	113.28					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	539.90					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hearth	189.23	4.74	358.60	0.57		0.00	56.10		0.00	56.08	6,060.22	34,937.00	40,997.22	18.52	0.84	41,646.01
Landscaping	25.89	9.95	865.95	0.05		0.00	4.80		0.00	4.80	0.00	1,419.15	1,419.15	1.35	0.00	1,447.50
Total	868.30	14.69	1,224.55	0.62		0.00	60.90		0.00	60.88	6,060.22	36,356.15	42,416.37	19.87	0.84	43,093.51

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	113.28					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	539.90					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hearth	189.23	4.74	358.60	0.57		0.00	56.10		0.00	56.08	6,060.22	34,937.00	40,997.22	18.52	0.84	41,646.01
Landscaping	25.89	9.95	865.95	0.05		0.00	4.80		0.00	4.80	0.00	1,419.15	1,419.15	1.35	0.00	1,447.50
Total	868.30	14.69	1,224.55	0.62		0.00	60.90		0.00	60.88	6,060.22	36,356.15	42,416.37	19.87	0.84	43,093.51

7.0 Water Detail

7.1 Mitigation Measures Water

	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr				MT/yr			
Mitigated					1,521.51	4,140.99	102.70	120,317.96
Unmitigated					1,521.51	4,140.99	102.70	120,317.96
Total	NA	NA	NA	NA	NA	NA	NA	NA

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	tons/yr				MT/yr			
Apartments Mid Rise	2024.6 / 1276.38					22.71	61.80	1.53	1,795.61
City Park	0 / 304.936					0.00	0.00	0.00	0.00
Elementary School	24.7224 / 63.5719					0.28	0.75	0.02	21.93
General Light Industry	126319 / 0					1,416.73	3,855.83	95.62	112,032.45

	Indoor/Outdoor Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	tons/yr			MT/yr				
General Office Building	2205.91 / 1352.01					24.74	67.33	1.67	1,956.42
Golf Course	0 / 486.553					0.00	0.00	0.00	0.00
Government Office Building	238.284 / 146.045					2.67	7.27	0.18	211.33
High School	31.2268 / 80.2974					0.35	0.95	0.02	27.70
Junior College (2Yr)	42.822 / 66.978					0.48	1.31	0.03	37.98
Junior High School	7.82545 / 20.1226					0.09	0.24	0.01	6.94
Place of Worship	7.94425 / 12.4256					0.09	0.24	0.01	7.05
Regional Shopping Center	1635.7 / 1002.53					18.35	49.93	1.24	1,450.70
Single Family Housing	1692.7 / 1067.14					18.98	51.67	1.28	1,501.26
University/College (4Yr)	77.0796 / 120.56					0.86	2.35	0.06	68.36
Unrefrigerated Warehouse-No Rail	1353.29 / 0					15.18	41.31	1.02	1,200.23
Total						1,521.51	4,140.98	102.69	120,317.96

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	tons/yr			MT/yr				
Apartments Mid Rise	2024.6 / 1276.38					22.71	61.80	1.53	1,795.61

	Indoor/Outdoor Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	tons/yr				MT/yr			
City Park	0 / 304.936					0.00	0.00	0.00	0.00
Elementary School	24.7224 / 63.5719					0.28	0.75	0.02	21.93
General Light Industry	126319 / 0					1,416.73	3,855.83	95.62	112,032.45
General Office Building	2205.91 / 1352.01					24.74	67.33	1.67	1,956.42
Golf Course	0 / 486.553					0.00	0.00	0.00	0.00
Government Office Building	238.284 / 146.045					2.67	7.27	0.18	211.33
High School	31.2268 / 80.2974					0.35	0.95	0.02	27.70
Junior College (2Yr)	42.822 / 66.978					0.48	1.31	0.03	37.98
Junior High School	7.82545 / 20.1226					0.09	0.24	0.01	6.94
Place of Worship	7.94425 / 12.4256					0.09	0.24	0.01	7.05
Regional Shopping Center	1635.7 / 1002.53					18.35	49.93	1.24	1,450.70
Single Family Housing	1692.7 / 1067.14					18.98	51.67	1.28	1,501.26
University/College (4Yr)	77.0796 / 120.56					0.86	2.35	0.06	68.36
Unrefrigerated Warehouse-No Rail	1353.29 / 0					15.18	41.31	1.02	1,200.23
Total						1,521.51	4,140.98	102.69	120,317.96

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
	tons/yr				MT/yr			
Mitigated					323,574.42	19,122.70	0.00	725,151.13
Unmitigated					323,574.42	19,122.70	0.00	725,151.13
Total	NA	NA	NA	NA	NA	NA	NA	NA

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	tons	tons/yr				MT/yr			
Apartments Mid Rise	14294					2,901.56	171.48	0.00	6,502.59
City Park	22.01					4.47	0.26	0.00	10.01
Elementary School	1861.13					377.79	22.33	0.00	846.66
General Light Industry	1.49465e+006					303,399.50	17,930.40	0.00	679,937.83
General Office Building	11542.5					2,343.03	138.47	0.00	5,250.87
Golf Course	379.77					77.09	4.56	0.00	172.76
Government Office Building	1115.5					226.44	13.38	0.00	507.46

	Waste Disposed	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	tons	tons/yr				MT/yr			
High School	1293.74					262.62	15.52	0.00	588.54
Junior College (2Yr)	3650					740.92	43.79	0.00	1,660.44
Junior High School	589.11					119.58	7.07	0.00	268.00
Place of Worship	1447.23					293.77	17.36	0.00	658.37
Regional Shopping Center	23186.5					4,706.65	278.16	0.00	10,547.91
Single Family Housing	30464.2					6,183.96	365.46	0.00	13,858.66
University/College (4Yr)	6570					1,333.65	78.82	0.00	2,988.80
Unrefrigerated Warehouse-No Rail	2972.48					603.39	35.66	0.00	1,352.23
Total						323,574.4 2	19,122.72	0.00	725,151.1 3

8.2 Waste by Land Use

Mitigated

	Waste Disposed	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	tons	tons/yr				MT/yr			
Apartments Mid Rise	14294					2,901.56	171.48	0.00	6,502.59
City Park	22.01					4.47	0.26	0.00	10.01
Elementary School	1861.13					377.79	22.33	0.00	846.66
General Light Industry	1.49465e+006					303,399.5 0	17,930.40	0.00	679,937.8 3

	Waste Disposed	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	tons	tons/yr				MT/yr			
General Office Building	11542.5					2,343.03	138.47	0.00	5,250.87
Golf Course	379.77					77.09	4.56	0.00	172.76
Government Office Building	1115.5					226.44	13.38	0.00	507.46
High School	1293.74					262.62	15.52	0.00	588.54
Junior College (2Yr)	3650					740.92	43.79	0.00	1,660.44
Junior High School	589.11					119.58	7.07	0.00	268.00
Place of Worship	1447.23					293.77	17.36	0.00	658.37
Regional Shopping Center	23186.5					4,706.65	278.16	0.00	10,547.91
Single Family Housing	30464.2					6,183.96	365.46	0.00	13,858.66
University/College (4Yr)	6570					1,333.65	78.82	0.00	2,988.80
Unrefrigerated Warehouse-No Rail	2972.48					603.39	35.66	0.00	1,352.23
Total						323,574.4 2	19,122.72	0.00	725,151.1 3

9.0 Vegetation

Fullerton General Plan Update - Buildout
South Coast Air Basin, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric
Single Family Housing	25980	Dwelling Unit
Apartments Mid Rise	31074	Dwelling Unit
Elementary School	10198	Student
Junior High School	3228	Student
High School	7089	Student
Junior College (2Yr)	20000	Student
University/College (4Yr)	36000	Student
Place of Worship	253.9	1000sqft
City Park	255.93	Acre
Regional Shopping Center	22082.38	1000sqft
General Office Building	12411.25	1000sqft
Government Office Building	1199.46	1000sqft
General Light Industry	25690.6	1000sqft
Golf Course	408.36	Acre
Unrefrigerated Warehouse-No Rail	275.23	1000sqft

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Utility Company
Climate Zone	8	Precipitation Freq (Days)	31	

1.3 User Entered Comments

Project Characteristics -
Land Use -

Construction Phase - No Construction
 Vehicle Trips - Warehouse=Airport Use

2.0 Emissions Summary

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	lb/day										lb/day					
Area	9,793.76	333.07	23,634.51	45.88		0.00	3,043.24		0.00	3,042.56	402,614.77	1,035,550.60		1,601.90	24.64	1,479,444.62
Energy	69.57	608.79	357.48	3.79		0.00	48.07		0.00	48.07		758,985.17		14.55	13.91	763,604.23
Mobile	4,910.74	11,445.12	38,723.07	147.92	15,489.99	671.20	16,161.18	220.28	652.88	873.16		11,690.921.66		358.12		11,698,442.21
Total	14,774.07	12,386.98	62,715.06	197.59	15,489.99	671.20	19,252.49	220.28	652.88	3,963.79	402,614.77	13,485,457.43		1,974.57	38.55	13,941,491.06

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	lb/day										lb/day					
Area	9,793.76	333.07	23,634.51	45.88		0.00	3,043.24		0.00	3,042.56	402,614.77	1,035,550.60		1,601.90	24.64	1,479,444.62
Energy	69.57	608.79	357.48	3.79		0.00	48.07		0.00	48.07		758,985.17		14.55	13.91	763,604.23
Mobile	4,910.74	11,445.12	38,723.07	147.92	15,489.99	671.20	16,161.18	220.28	652.88	873.16		11,690.921.66		358.12		11,698,442.21
Total	14,774.07	12,386.98	62,715.06	197.59	15,489.99	671.20	19,252.49	220.28	652.88	3,963.79	402,614.77	13,485,457.43		1,974.57	38.55	13,941,491.06

3.0 Construction Detail

3.1 Mitigation Measures Construction

4.0 Mobile Detail

4.1 Mitigation Measures Mobile

	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	lb/day										lb/day					
Mitigated	4,910.74	11,445.12	38,723.07	147.92	15,489.99	671.20	16,161.18	220.28	652.88	873.16		11,690.92 1.66		358.12		11,698.44 2.21
Unmitigated	4,910.74	11,445.12	38,723.07	147.92	15,489.99	671.20	16,161.18	220.28	652.88	873.16		11,690.92 1.66		358.12		11,698.44 2.21
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	214,410.60	222,489.84	188619.18	601,765,447	601,765,447
City Park	406.93	406.93	406.93	868,733	868,733
Elementary School	13,155.42	0.00	0.00	20,719,214	20,719,214
General Light Industry	179,063.48	33,911.59	17469.61	394,842,448	394,842,448
General Office Building	136,647.86	29,414.66	12163.03	247,447,639	247,447,639
Golf Course	2,058.13	2,376.66	2401.16	3,890,424	3,890,424
Government Office Building	82,678.78	0.00	0.00	101,274,442	101,274,442
High School	12,122.19	4,324.29	1772.25	24,950,139	24,950,139
Junior College (2Yr)	24,000.00	8,400.00	800.00	46,872,597	46,872,597
Junior High School	5,229.36	0.00	0.00	8,397,584	8,397,584
Place of Worship	2,313.03	2,632.94	9300.36	6,279,748	6,279,748
Regional Shopping Center	948,217.40	1,103,456.53	557359.27	1,603,498,150	1,603,498,150
Single Family Housing	248,628.60	261,878.40	227844.60	703,078,200	703,078,200
University/College (4Yr)	85,680.00	46,800.00	0.00	171,454,247	171,454,247

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Unrefrigerated Warehouse-No Rail	1,376.15	1,376.15	1376.15	4,017,685	4,017,685
Total	1,955,987.93	1,717,467.99	1,019,512.53	3,939,356,698	3,939,356,698

4.3 Trip Type Information

Land Use	Miles			Trip %		
	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
Apartments Mid Rise	10.80	7.30	7.50	40.20	19.20	40.60
City Park	9.50	7.30	7.30	33.00	48.00	19.00
Elementary School	9.50	7.30	7.30	65.00	30.00	5.00
General Light Industry	9.50	7.30	7.30	59.00	28.00	13.00
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00
Golf Course	9.50	7.30	7.30	33.00	48.00	19.00
Government Office Building	9.50	7.30	7.30	33.00	62.00	5.00
High School	9.50	7.30	7.30	77.80	17.20	5.00
Junior College (2Yr)	9.50	7.30	7.30	6.40	88.60	5.00
Junior High School	9.50	7.30	7.30	72.80	22.20	5.00
Place of Worship	9.50	7.30	7.30	0.00	95.00	5.00
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00
Single Family Housing	10.80	7.30	7.50	40.20	19.20	40.60
University/College (4Yr)	9.50	7.30	7.30	6.40	88.60	5.00
Unrefrigerated Warehouse-No Rail	9.50	7.30	7.30	59.00	0.00	41.00

5.0 Energy Detail

5.1 Mitigation Measures Energy

	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	lb/day										lb/day					
NaturalGas Mitigated	69.57	608.79	357.48	3.79		0.00	48.07		0.00	48.07		758,985.17		14.55	13.91	763,604.23
NaturalGas Unmitigated	69.57	608.79	357.48	3.79		0.00	48.07		0.00	48.07		758,985.17		14.55	13.91	763,604.23
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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	lb/day										lb/day					
Apartments Mid Rise	1.01934e+006	10.99	93.94	39.97	0.60		0.00	7.60		0.00	7.60		119,921.90		2.30	2.20	120,651.73
City Park	0	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00	0.00	0.00
Elementary School	28988	0.31	2.84	2.39	0.02		0.00	0.22		0.00	0.22		3,410.35		0.07	0.06	3,431.10
General Light Industry	1.52314e+006	16.43	149.33	125.43	0.90		0.00	11.35		0.00	11.35		179,192.45		3.43	3.29	180,282.99
General Office Building	326093	3.52	31.97	26.85	0.19		0.00	2.43		0.00	2.43		38,363.86		0.74	0.70	38,597.34
Golf Course	0	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00	0.00	0.00
Government Office Building	31514.6	0.34	3.09	2.60	0.02		0.00	0.23		0.00	0.23		3,707.60		0.07	0.07	3,730.16

	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	lb/day										lb/day					
High School	31974.7	0.34	3.13	2.63	0.02		0.00	0.24		0.00	0.24		3,761.73		0.07	0.07	3,784.63
Junior College (2Yr)	37935.6	0.41	3.72	3.12	0.02		0.00	0.28		0.00	0.28		4,463.01		0.09	0.08	4,490.17
Junior High School	12902.6	0.14	1.26	1.06	0.01		0.00	0.10		0.00	0.10		1,517.96		0.03	0.03	1,527.19
Place of Worship	15053.1	0.16	1.48	1.24	0.01		0.00	0.11		0.00	0.11		1,770.96		0.03	0.03	1,781.74
Regional Shopping Center	124024	1.34	12.16	10.21	0.07		0.00	0.92		0.00	0.92		14,591.10		0.28	0.27	14,679.90
Single Family Housing	3.00979e+006	32.46	277.37	118.03	1.77		0.00	22.43		0.00	22.43		354,093.21		6.79	6.49	356,248.16
University/College (4Yr)	287510	3.10	28.19	23.68	0.17		0.00	2.14		0.00	2.14		33,824.66		0.65	0.62	34,030.51
Unrefrigerated Warehouse-No Rail	3114.25	0.03	0.31	0.26	0.00		0.00	0.02		0.00	0.02		366.38		0.01	0.01	368.61
Total		69.57	608.79	357.47	3.80		0.00	48.07		0.00	48.07		758,985.17		14.56	13.92	763,604.23

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	lb/day										lb/day					
Apartments Mid Rise	1019.34	10.99	93.94	39.97	0.60		0.00	7.60		0.00	7.60		119,921.90		2.30	2.20	120,651.73
City Park	0	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00	0.00	0.00
Elementary School	28.988	0.31	2.84	2.39	0.02		0.00	0.22		0.00	0.22		3,410.35		0.07	0.06	3,431.10
General Light Industry	1523.14	16.43	149.33	125.43	0.90		0.00	11.35		0.00	11.35		179,192.45		3.43	3.29	180,282.99

	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	lb/day										lb/day					
General Office Building	326.093	3.52	31.97	26.85	0.19		0.00	2.43		0.00	2.43		38,363.86		0.74	0.70	38,597.34
Golf Course	0	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00	0.00	0.00
Government Office Building	31.5146	0.34	3.09	2.60	0.02		0.00	0.23		0.00	0.23		3,707.60		0.07	0.07	3,730.16
High School	31.9747	0.34	3.13	2.63	0.02		0.00	0.24		0.00	0.24		3,761.73		0.07	0.07	3,784.63
Junior College (2Yr)	37.9356	0.41	3.72	3.12	0.02		0.00	0.28		0.00	0.28		4,463.01		0.09	0.08	4,490.17
Junior High School	12.9026	0.14	1.26	1.06	0.01		0.00	0.10		0.00	0.10		1,517.96		0.03	0.03	1,527.19
Place of Worship	15.0531	0.16	1.48	1.24	0.01		0.00	0.11		0.00	0.11		1,770.96		0.03	0.03	1,781.74
Regional Shopping Center	124.024	1.34	12.16	10.21	0.07		0.00	0.92		0.00	0.92		14,591.10		0.28	0.27	14,679.90
Single Family Housing	3009.79	32.46	277.37	118.03	1.77		0.00	22.43		0.00	22.43		354,093.21		6.79	6.49	356,248.16
University/College (4Yr)	287.51	3.10	28.19	23.68	0.17		0.00	2.14		0.00	2.14		33,824.66		0.65	0.62	34,030.51
Unrefrigerated Warehouse-No Rail	3.11425	0.03	0.31	0.26	0.00		0.00	0.02		0.00	0.02		366.38		0.01	0.01	368.61
Total		69.57	608.79	357.47	3.80		0.00	48.07		0.00	48.07		758,985.17		14.56	13.92	763,604.23

6.0 Area Detail

6.1 Mitigation Measures Area

	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	lb/day										lb/day					
Mitigated	9,793.76	333.07	23,634.51	45.88		0.00	3,043.24		0.00	3,042.56	402,614.77	1,035,550.60		1,601.90	24.64	1,479,444.62
Unmitigated	9,793.76	333.07	23,634.51	45.88		0.00	3,043.24		0.00	3,042.56	402,614.77	1,035,550.60		1,601.90	24.64	1,479,444.62
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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	lb/day										lb/day					
Architectural Coating	620.72					0.00	0.00		0.00	0.00						0.00
Consumer Products	2,958.38					0.00	0.00		0.00	0.00						0.00
Hearth	6,072.72	278.53	18,885.36	45.62		0.00	3,016.95		0.00	3,016.26	402,614.77	1,026,972.00		1,593.74	24.64	1,470,694.66
Landscaping	141.94	54.55	4,749.15	0.25		0.00	26.30		0.00	26.30		8,578.60		8.16		8,749.96
Total	9,793.76	333.08	23,634.51	45.87		0.00	3,043.25		0.00	3,042.56	402,614.77	1,035,550.60		1,601.90	24.64	1,479,444.62

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	lb/day										lb/day					
Architectural Coating	620.72					0.00	0.00		0.00	0.00						0.00
Consumer Products	2,958.38					0.00	0.00		0.00	0.00						0.00
Hearth	6,072.72	278.53	18,885.36	45.62		0.00	3,016.95		0.00	3,016.26	402,614.77	1,026,972.00		1,593.74	24.64	1,470,694.66
Landscaping	141.94	54.55	4,749.15	0.25		0.00	26.30		0.00	26.30		8,578.60		8.16		8,749.96
Total	9,793.76	333.08	23,634.51	45.87		0.00	3,043.25		0.00	3,042.56	402,614.77	1,035,550.60		1,601.90	24.64	1,479,444.62

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Vegetation

Fullerton General Plan Update - Buildout
South Coast Air Basin, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric
Single Family Housing	25980	Dwelling Unit
Apartments Mid Rise	31074	Dwelling Unit
Elementary School	10198	Student
Junior High School	3228	Student
High School	7089	Student
Junior College (2Yr)	20000	Student
University/College (4Yr)	36000	Student
Place of Worship	253.9	1000sqft
City Park	255.93	Acre
Regional Shopping Center	22082.38	1000sqft
General Office Building	12411.25	1000sqft
Government Office Building	1199.46	1000sqft
General Light Industry	25690.6	1000sqft
Golf Course	408.36	Acre
Unrefrigerated Warehouse-No Rail	275.23	1000sqft

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Utility Company
Climate Zone	8	Precipitation Freq (Days)	31	

1.3 User Entered Comments

Project Characteristics -
Land Use -

Construction Phase - No Construction
 Vehicle Trips - Warehouse=Airport Use

2.0 Emissions Summary

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	lb/day										lb/day					
Area	9,793.76	333.07	23,634.51	45.88		0.00	3,043.24		0.00	3,042.56	402,614.77	1,035,550.60		1,601.90	24.64	1,479,444.62
Energy	69.57	608.79	357.48	3.79		0.00	48.07		0.00	48.07		758,985.17		14.55	13.91	763,604.23
Mobile	5,080.48	11,648.93	38,436.30	136.68	15,489.99	674.07	16,164.06	220.28	655.76	876.04		10,908.389.07		321.44		10,915,139.25
Total	14,943.81	12,590.79	62,428.29	186.35	15,489.99	674.07	19,255.37	220.28	655.76	3,966.67	402,614.77	12,702.924.84		1,937.89	38.55	13,158,188.10

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	lb/day										lb/day					
Area	9,793.76	333.07	23,634.51	45.88		0.00	3,043.24		0.00	3,042.56	402,614.77	1,035,550.60		1,601.90	24.64	1,479,444.62
Energy	69.57	608.79	357.48	3.79		0.00	48.07		0.00	48.07		758,985.17		14.55	13.91	763,604.23
Mobile	5,080.48	11,648.93	38,436.30	136.68	15,489.99	674.07	16,164.06	220.28	655.76	876.04		10,908,389.07		321.44		10,915,139.25
Total	14,943.81	12,590.79	62,428.29	186.35	15,489.99	674.07	19,255.37	220.28	655.76	3,966.67	402,614.77	12,702,924.84		1,937.89	38.55	13,158,188.10

3.0 Construction Detail

3.1 Mitigation Measures Construction

4.0 Mobile Detail

4.1 Mitigation Measures Mobile

	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	lb/day										lb/day					
Mitigated	5,080.48	11,648.93	38,436.30	136.68	15,489.99	674.07	16,164.06	220.28	655.76	876.04		10,908,389.07		321.44		10,915,139.25
Unmitigated	5,080.48	11,648.93	38,436.30	136.68	15,489.99	674.07	16,164.06	220.28	655.76	876.04		10,908,389.07		321.44		10,915,139.25
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	214,410.60	222,489.84	188619.18	601,765,447	601,765,447
City Park	406.93	406.93	406.93	868,733	868,733
Elementary School	13,155.42	0.00	0.00	20,719,214	20,719,214
General Light Industry	179,063.48	33,911.59	17469.61	394,842,448	394,842,448
General Office Building	136,647.86	29,414.66	12163.03	247,447,639	247,447,639
Golf Course	2,058.13	2,376.66	2401.16	3,890,424	3,890,424
Government Office Building	82,678.78	0.00	0.00	101,274,442	101,274,442
High School	12,122.19	4,324.29	1772.25	24,950,139	24,950,139
Junior College (2Yr)	24,000.00	8,400.00	800.00	46,872,597	46,872,597
Junior High School	5,229.36	0.00	0.00	8,397,584	8,397,584
Place of Worship	2,313.03	2,632.94	9300.36	6,279,748	6,279,748
Regional Shopping Center	948,217.40	1,103,456.53	557359.27	1,603,498,150	1,603,498,150
Single Family Housing	248,628.60	261,878.40	227844.60	703,078,200	703,078,200
University/College (4Yr)	85,680.00	46,800.00	0.00	171,454,247	171,454,247

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Unrefrigerated Warehouse-No Rail	1,376.15	1,376.15	1376.15	4,017,685	4,017,685
Total	1,955,987.93	1,717,467.99	1,019,512.53	3,939,356,698	3,939,356,698

4.3 Trip Type Information

Land Use	Miles			Trip %		
	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
Apartments Mid Rise	10.80	7.30	7.50	40.20	19.20	40.60
City Park	9.50	7.30	7.30	33.00	48.00	19.00
Elementary School	9.50	7.30	7.30	65.00	30.00	5.00
General Light Industry	9.50	7.30	7.30	59.00	28.00	13.00
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00
Golf Course	9.50	7.30	7.30	33.00	48.00	19.00
Government Office Building	9.50	7.30	7.30	33.00	62.00	5.00
High School	9.50	7.30	7.30	77.80	17.20	5.00
Junior College (2Yr)	9.50	7.30	7.30	6.40	88.60	5.00
Junior High School	9.50	7.30	7.30	72.80	22.20	5.00
Place of Worship	9.50	7.30	7.30	0.00	95.00	5.00
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00
Single Family Housing	10.80	7.30	7.50	40.20	19.20	40.60
University/College (4Yr)	9.50	7.30	7.30	6.40	88.60	5.00
Unrefrigerated Warehouse-No Rail	9.50	7.30	7.30	59.00	0.00	41.00

5.0 Energy Detail

5.1 Mitigation Measures Energy

	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	lb/day										lb/day					
NaturalGas Mitigated	69.57	608.79	357.48	3.79		0.00	48.07		0.00	48.07		758,985.17		14.55	13.91	763,604.23
NaturalGas Unmitigated	69.57	608.79	357.48	3.79		0.00	48.07		0.00	48.07		758,985.17		14.55	13.91	763,604.23
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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	lb/day										lb/day					
Apartments Mid Rise	1.01934e+006	10.99	93.94	39.97	0.60		0.00	7.60		0.00	7.60		119,921.90		2.30	2.20	120,651.73
City Park	0	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00	0.00	0.00
Elementary School	28988	0.31	2.84	2.39	0.02		0.00	0.22		0.00	0.22		3,410.35		0.07	0.06	3,431.10
General Light Industry	1.52314e+006	16.43	149.33	125.43	0.90		0.00	11.35		0.00	11.35		179,192.45		3.43	3.29	180,282.99
General Office Building	326093	3.52	31.97	26.85	0.19		0.00	2.43		0.00	2.43		38,363.86		0.74	0.70	38,597.34
Golf Course	0	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00	0.00	0.00
Government Office Building	31514.6	0.34	3.09	2.60	0.02		0.00	0.23		0.00	0.23		3,707.60		0.07	0.07	3,730.16

	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	lb/day										lb/day					
High School	31974.7	0.34	3.13	2.63	0.02		0.00	0.24		0.00	0.24		3,761.73		0.07	0.07	3,784.63
Junior College (2Yr)	37935.6	0.41	3.72	3.12	0.02		0.00	0.28		0.00	0.28		4,463.01		0.09	0.08	4,490.17
Junior High School	12902.6	0.14	1.26	1.06	0.01		0.00	0.10		0.00	0.10		1,517.96		0.03	0.03	1,527.19
Place of Worship	15053.1	0.16	1.48	1.24	0.01		0.00	0.11		0.00	0.11		1,770.96		0.03	0.03	1,781.74
Regional Shopping Center	124024	1.34	12.16	10.21	0.07		0.00	0.92		0.00	0.92		14,591.10		0.28	0.27	14,679.90
Single Family Housing	3.00979e+006	32.46	277.37	118.03	1.77		0.00	22.43		0.00	22.43		354,093.21		6.79	6.49	356,248.16
University/College (4Yr)	287510	3.10	28.19	23.68	0.17		0.00	2.14		0.00	2.14		33,824.66		0.65	0.62	34,030.51
Unrefrigerated Warehouse-No Rail	3114.25	0.03	0.31	0.26	0.00		0.00	0.02		0.00	0.02		366.38		0.01	0.01	368.61
Total		69.57	608.79	357.47	3.80		0.00	48.07		0.00	48.07		758,985.17		14.56	13.92	763,604.23

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	lb/day										lb/day					
Apartments Mid Rise	1019.34	10.99	93.94	39.97	0.60		0.00	7.60		0.00	7.60		119,921.90		2.30	2.20	120,651.73
City Park	0	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00	0.00	0.00
Elementary School	28.988	0.31	2.84	2.39	0.02		0.00	0.22		0.00	0.22		3,410.35		0.07	0.06	3,431.10
General Light Industry	1523.14	16.43	149.33	125.43	0.90		0.00	11.35		0.00	11.35		179,192.45		3.43	3.29	180,282.99

	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	lb/day										lb/day					
General Office Building	326.093	3.52	31.97	26.85	0.19		0.00	2.43		0.00	2.43		38,363.86		0.74	0.70	38,597.34
Golf Course	0	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00	0.00	0.00
Government Office Building	31.5146	0.34	3.09	2.60	0.02		0.00	0.23		0.00	0.23		3,707.60		0.07	0.07	3,730.16
High School	31.9747	0.34	3.13	2.63	0.02		0.00	0.24		0.00	0.24		3,761.73		0.07	0.07	3,784.63
Junior College (2Yr)	37.9356	0.41	3.72	3.12	0.02		0.00	0.28		0.00	0.28		4,463.01		0.09	0.08	4,490.17
Junior High School	12.9026	0.14	1.26	1.06	0.01		0.00	0.10		0.00	0.10		1,517.96		0.03	0.03	1,527.19
Place of Worship	15.0531	0.16	1.48	1.24	0.01		0.00	0.11		0.00	0.11		1,770.96		0.03	0.03	1,781.74
Regional Shopping Center	124.024	1.34	12.16	10.21	0.07		0.00	0.92		0.00	0.92		14,591.10		0.28	0.27	14,679.90
Single Family Housing	3009.79	32.46	277.37	118.03	1.77		0.00	22.43		0.00	22.43		354,093.21		6.79	6.49	356,248.16
University/College (4Yr)	287.51	3.10	28.19	23.68	0.17		0.00	2.14		0.00	2.14		33,824.66		0.65	0.62	34,030.51
Unrefrigerated Warehouse-No Rail	3.11425	0.03	0.31	0.26	0.00		0.00	0.02		0.00	0.02		366.38		0.01	0.01	368.61
Total		69.57	608.79	357.47	3.80		0.00	48.07		0.00	48.07		758,985.17		14.56	13.92	763,604.23

6.0 Area Detail

6.1 Mitigation Measures Area

	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	lb/day										lb/day					
Mitigated	9,793.76	333.07	23,634.51	45.88		0.00	3,043.24		0.00	3,042.56	402,614.77	1,035,550.60		1,601.90	24.64	1,479,444.62
Unmitigated	9,793.76	333.07	23,634.51	45.88		0.00	3,043.24		0.00	3,042.56	402,614.77	1,035,550.60		1,601.90	24.64	1,479,444.62
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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	lb/day										lb/day					
Architectural Coating	620.72					0.00	0.00		0.00	0.00						0.00
Consumer Products	2,958.38					0.00	0.00		0.00	0.00						0.00
Hearth	6,072.72	278.53	18,885.36	45.62		0.00	3,016.95		0.00	3,016.26	402,614.77	1,026,972.00		1,593.74	24.64	1,470,694.66
Landscaping	141.94	54.55	4,749.15	0.25		0.00	26.30		0.00	26.30		8,578.60		8.16		8,749.96
Total	9,793.76	333.08	23,634.51	45.87		0.00	3,043.25		0.00	3,042.56	402,614.77	1,035,550.60		1,601.90	24.64	1,479,444.62

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	lb/day										lb/day						
Architectural Coating	620.72					0.00	0.00		0.00	0.00							0.00
Consumer Products	2,958.38					0.00	0.00		0.00	0.00							0.00
Hearth	6,072.72	278.53	18,885.36	45.62		0.00	3,016.95		0.00	3,016.26	402,614.77	1,026,972.00		1,593.74	24.64		1,470,694.66
Landscaping	141.94	54.55	4,749.15	0.25		0.00	26.30		0.00	26.30		8,578.60		8.16			8,749.96
Total	9,793.76	333.08	23,634.51	45.87		0.00	3,043.25		0.00	3,042.56	402,614.77	1,035,550.60		1,601.90	24.64		1,479,444.62

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Vegetation
