

## **APPENDIX A**

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### California Air District CEQA Significance Thresholds

Research of Current California Air District CEQA Thresholds

Last Updated	District Name	Basis	Pollutant	Emissions Source																TACs		Odors		Notes								
				Construction								Operational								Cancer Risk (risk/million)	Hazard Index	Screening-level Distances	Complaint History									
				ROG	NOX	PM10	PM2.5	CO	SOX	Pb	Units	ROG	NOX	PM10	PM2.5	CO	SOX	Pb	Units													
	Amador County			no guidelines																												
2008	Antelope Valley			137	137	82		548	137		lb/day	137	137	82		548	137		lb/day	10	1	No	No									
1999	Bay Area			no threshold - implement BMPs																		Yes	Yes									
1999	Bay Area			no threshold - implement BMPs																		Yes	Yes									
2008	Butte County (Level A,B)			25	25	80					lb/day	25	25	80					lb/day			Yes	Yes	Expected to be lowered in 2009 due to Ozone and PM2.5 nonattainment (pers. comm. Gail Williams 2009)								
2008	Butte County (Level C)			137	137	137					lb/day	137	137	137					lb/day			Yes	Yes	Expected to be lowered in 2009 due to Ozone and PM2.5 nonattainment (pers. comm. Gail Williams 2009)								
	Calaveras County			no guidelines																												
	Colusa County	Rule 3.6 NSR		25	25	80		500	80	3.2	lb/day	no guidelines - exacts indirect source fees per unit (Rule 4.8)																				
2002	El Dorado County	Rule 523		82	82						lb/day	82	82						lb/day	10	1	Qualitative	Qualitative									
1998	Feather River	ISR Guidelines		25	25	80					lb/day	25	25	80					lb/day					ISR Guidelines								
	Glenn County	Art III, Sec. 51 (N		no guidelines - implement BMPs - case-by-case basis																												
	Great Basin Unified			no guidelines																												
2007	Imperial County										Implement standard mitigation (Reg VIII)	55	55	150		550	150		lbs/day			Yes	Yes	Project screening levels								
1999	Kern County			project basis - implement standard KCAPCD mitigation																		No	No									
	Lake County			no guidelines - use BAAQMD guidelines																												
	Lassen County			no guidelines - implement BMPs																												
	Mariposa County			no guidelines - implement BMPs																												
	Mendocino County	Regulation 1		110	110	40		245			lb/day	180	42	80		690			lb/day	10	0.1											
	Modoc County	Rule 6.1		250	250	250		2500			lb/day	250	250	250		2500			lb/day					Rule 6.1: permit to construct								
2007	Mojave Desert			137	137	82		548	137		lb/day	137	137	82		548	137		lb/day	10	1	No	No									
2008	Monterey Bay Unified					82					lb/day	137	137	82		550	150		lb/day	10		No	No	Project screening levels for CAPs. Consult District for odor impacts.								
	North Coast Unified	Rule 110		40	40	16		100			TPY	40	40	16		100			TPY	10				no guidelines								
2004	Northern Sierra (Level A)			24	24	79					lb/day	24	24	79					lb/day	10	1			Draft: Thresholds apply to worst-case construction and operation emissions overlap (pers. comm. Samuel F. Longmire 2009)								
2004	Northern Sierra (Level C)			137	137	137					lb/day	137	137	137					lb/day	10	1			Draft: Thresholds apply to worst-case construction and operation emissions overlap (pers. comm. Samuel F. Longmire 2009)								
	Northern Sonoma County	NSR		no guidelines - relies on BAAQMD																												
	Northern Sonoma County			40	40	40		40			TPY	no guidelines - relies on BAAQMD																				
	Placer County			82	82	82		550			lb/day	82	82	82		550			lb/day													
2004	Sacramento Metro	SFNA 2001 Docu				85		CAAQS			lb/day	65	65		CAAQS			lb/day				Yes	Yes									
	San Diego County			No guidelines -- Discussion of Lead Agency																		No	No									
2002	San Joaquin Valley Unified	Rule 2201		10	10	Reg VIII		CAAQS			TPY	10	10		CAAQS			TPY	10	1	Yes	Yes		pg. 22 of the CEQA Guide says that the basis for precursor thresholds is Rule 2201 (NSR) Project screening levels. For construction, projects over threshold should implement CBACT. Construction projects over 6 tons/quarter should implement CBACT, further mitigation, and emissions offsets.								
2003	San Luis Obispo County			185	185	2.5					lb/day	25	25	25		550	25		lb/day			Yes	Yes	Classification of impacts (I - S/U, II - PS, III - LTS, IV -Beneficial impact). All construction projects should implement standard mitigation for PM10 fugitive dust. Odor abatement plans (OAP) can be submitted to address odor problems.								
2000	Santa Barbara County											25	25	80				lb/day			No	No										
1995	Shasta County (Level A)			25	25	80					lb/day	25	25	80				lb/day														
1995	Shasta County (Level B)			137	137	137					lb/day	137	137	137				lb/day														
	Siskiyou County			no guidelines																												
2008	South Coast			75	100	150	55	550	150	3	lb/day	55	55	150	55	550	150	3	lbs/day	10	1	No	No									
	Tehama County			no guidelines																												
	Tuolumne County	Rule 4.19		100	100	100		100			TPY	100	100	100		100			TPY													
	Tuolumne County			1,000	1,000	1,000		1,000			lb/day	1,000	1,000	1,000		1,000			lb/day													
2003	Ventura County			25	25						lb/day	25	25					lb/day	10	1	Yes	Yes										
	Ventura (Ojai Planning Area)			5	5						lb/day	5	5					lb/day	10	1	Yes	Yes										
	Simi Valley			25	25						lb/day	13.7	13.7					tons/yr	10	1	Yes	Yes										
2007	2007 Yolo-Solano			10	10			CAAQS			TPY	10	10		CAAQS			TPY	10	1	Yes	No	Justification for Thresholds "Appendix B" of 2007 CEQA Guide									
2007	2007 Yolo-Solano					80		CAAQS			lb/day			80		CAAQS			lb/day	10	1	Yes	No	Justification for Thresholds "Appendix B" of 2007 CEQA Guide								



## **APPENDIX B**

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Development Projections and URBEMIS Modeling



Bay Area New Development Projections by Urbemis Code, 2008-2020														
Urbemis Category	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Total (2010-2020)
<b>Industrial</b>														
21 Warehouse <sup>14</sup>	2,328,000	2,364,000	2,450,000	2,440,000	2,479,000	2,518,000	2,558,000	2,660,000	2,641,000	2,682,000	2,725,000	2,768,000	2,892,000	<b>28,813,000</b>
22 General Light Industry <sup>15</sup>	1,562,000	1,581,000	1,631,000	1,620,000	1,640,000	1,660,000	1,681,000	1,751,000	1,723,000	1,744,000	1,766,000	1,789,000	1,889,000	<b>18,894,000</b>
23 General Heavy Industry	147,000	164,000	212,000	200,000	218,000	236,000	255,000	306,000	293,000	312,000	332,000	353,000	413,000	<b>3,130,000</b>
Industrial Park	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manufacturing	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Industrial</b>	<b>4,037,000</b>	<b>4,109,000</b>	<b>4,293,000</b>	<b>4,260,000</b>	<b>4,337,000</b>	<b>4,414,000</b>	<b>4,494,000</b>	<b>4,717,000</b>	<b>4,657,000</b>	<b>4,738,000</b>	<b>4,823,000</b>	<b>4,910,000</b>	<b>5,194,000</b>	<b>50,837,000</b>
<b>Total</b>	<b>39,458,000</b>	<b>37,181,500</b>	<b>38,161,000</b>	<b>43,424,500</b>	<b>43,913,000</b>	<b>42,066,500</b>	<b>42,618,500</b>	<b>43,380,500</b>	<b>43,698,500</b>	<b>44,197,500</b>	<b>44,741,500</b>	<b>45,287,500</b>	<b>46,244,500</b>	<b>477,733,500</b>

Notes

- 1 - Condo / Townhouse High Rise included in the Condo / Townhouse General Category
- 2 - Congregate Care includes Retirement Community and Mobile Home Parks
- 3 - Elementary School includes Junior High School, High School, and Day Care Centers
- 4 - Universities include Junior Colleges
- 5 - Place of Worship includes Libraries and Raquet Club and Raquetball/Health
- 6 - High Turnover (sit-down) Restaurant includes Quality Restaurant and Fast Food
- 7 - Hotel Includes Motel
- 8 - Free Standing Discount Store includes Free Standing Discount Superstore and Discount Club and Regional Shopping Center and Electronic Superstore and Home Improvement Superstore
- 9 - Strip Mall includes Hardware/Paint Store
- 10 - Convenience Market includes Convenience Market with Gas Pumps and Gasoline/Service Station
- 11 - General Office Building includes Medical Office Building
- 12 - Government Office Building includes Government (Civic Center)
- 13 - Pharmacy/Drugstore with and without drive-through
- 14 - Warehouse includes Manufacturing
- 15 - Light Industry includes Industrial Park

<b>Bay Area New Development Projections (square feet), 2008-2020</b>														
<b>Product Type</b>	<b>2008</b>	<b>2009</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>Total (2010-2020)</b>
Residential <sup>1</sup>	28,201,000	26,144,500	26,019,000	31,201,500	31,509,000	29,472,500	29,836,500	30,164,500	30,524,500	30,827,500	31,166,500	31,508,500	31,847,500	<b>334,077,500</b>
Other Residential <sup>2</sup>	695,000	678,000	685,000	716,000	723,000	731,000	738,000	746,000	753,000	761,000	769,000	776,000	784,000	<b>8,182,000</b>
Education <sup>2</sup>	781,000	791,000	790,000	813,000	823,000	835,000	845,000	861,000	868,000	880,000	893,000	904,000	937,000	<b>9,449,000</b>
Recreation <sup>2</sup>	1,771,000	1,359,000	1,377,000	1,393,000	1,410,000	1,429,000	1,446,000	1,487,000	1,484,000	1,503,000	1,522,000	1,541,000	1,604,000	<b>16,196,000</b>
Large Retail <sup>2</sup>	62,000	62,000	85,000	64,000	65,000	65,000	66,000	90,000	68,000	69,000	70,000	70,000	93,000	<b>805,000</b>
Retail <sup>2</sup>	1,024,000	1,036,000	1,017,000	1,059,000	1,071,000	1,084,000	1,098,000	1,104,000	1,123,000	1,136,000	1,149,000	1,163,000	1,193,000	<b>12,197,000</b>
Commercial <sup>2</sup>	3,811,000	3,866,000	3,931,000	3,978,000	4,035,000	4,096,000	4,155,000	4,271,000	4,281,000	4,343,000	4,409,000	4,475,000	4,652,000	<b>46,626,000</b>
Industrial <sup>2</sup>	4,037,000	4,109,000	4,293,000	4,260,000	4,337,000	4,414,000	4,494,000	4,717,000	4,657,000	4,738,000	4,823,000	4,910,000	5,194,000	<b>50,837,000</b>
<b>2010 - 2020</b>	<b>40,382,000</b>	<b>38,045,500</b>	<b>38,197,000</b>	<b>43,484,500</b>	<b>43,973,000</b>	<b>42,126,500</b>	<b>42,678,500</b>	<b>43,440,500</b>	<b>43,758,500</b>	<b>44,257,500</b>	<b>44,801,500</b>	<b>45,347,500</b>	<b>46,304,500</b>	<b>478,369,500</b>

Note:

1 - Population Driven Residential Development, Department of Finance

2 - Employment Driven Development Projections, NAICS data

<b>Bay Area New Development Distributions per Product Type, 2008-2020</b>														
<b>Product Type</b>	<b>2008</b>	<b>2009</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>Total</b>
Residential <sup>1</sup>	69.8%	68.7%	68.1%	71.8%	71.7%	70.0%	69.9%	69.4%	69.8%	69.7%	69.6%	69.5%	68.8%	<b>69.8%</b>
Other Residential <sup>2</sup>	1.7%	1.8%	1.8%	1.6%	1.6%	1.7%	1.7%	1.7%	1.7%	1.7%	1.7%	1.7%	1.7%	<b>1.7%</b>
Education <sup>2</sup>	1.9%	2.1%	2.1%	1.9%	1.9%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	<b>2.0%</b>
Recreation <sup>2</sup>	4.4%	3.6%	3.6%	3.2%	3.2%	3.4%	3.4%	3.4%	3.4%	3.4%	3.4%	3.4%	3.5%	<b>3.4%</b>
Large Retail <sup>2</sup>	0.2%	0.2%	0.2%	0.1%	0.1%	0.2%	0.2%	0.2%	0.2%	0.2%	0.2%	0.2%	0.2%	<b>0.2%</b>
Retail <sup>2</sup>	2.5%	2.7%	2.7%	2.4%	2.4%	2.6%	2.6%	2.5%	2.6%	2.6%	2.6%	2.6%	2.6%	<b>2.5%</b>
Commercial <sup>2</sup>	9.4%	10.2%	10.3%	9.1%	9.2%	9.7%	9.7%	9.8%	9.8%	9.8%	9.8%	9.9%	10.0%	<b>9.7%</b>
Industrial <sup>2</sup>	10.0%	10.8%	11.2%	9.8%	9.9%	10.5%	10.5%	10.9%	10.6%	10.7%	10.8%	10.8%	11.2%	<b>10.6%</b>

**2020 Summary of Pollutant Load by Urbemis Category**

	ROG (tons/yr)	Nox (tons/yr)	PM <sup>10</sup> (tons/yr)	PM <sup>2.5</sup> (tons/yr)	CO <sub>2</sub> (tons/yr)
Single Family Housing	296.24	125.78	336.80	94.04	201,060.17
Apartments Low Rise	5.35	1.90	5.41	1.67	3,037.95
Apartments Mid Rise	57.19	18.23	51.56	16.82	29,121.89
Apartments High Rise	86.02	26.30	73.57	24.81	41,719.75
Condo/Townhouse General + High Rise	35.49	12.55	35.85	11.11	20,114.84
Congregate Care (Assisted Living) Facility	17.12	3.23	8.07	3.97	4,780.31
Elementary School	4.42	5.20	14.03	2.66	8,346.88
University/College (4 years)	0.42	0.35	1.00	0.19	569.79
Place of Worship	2.54	3.00	7.26	1.36	4,627.96
High Turnover (sit-down) Restaurant	99.22	123.22	380.87	72.01	205,974.90
Hotel	2.39	2.87	7.25	1.37	4,541.95
Free-Standing Discount Store	-	-	-	-	-
Strip Mall	20.11	24.65	72.87	13.84	40,523.18
Supermarket	21.39	26.88	82.01	15.54	44,567.57
Convenience Market (24 Hour)	5.63	7.12	22.19	4.19	11,879.41
General Office Building	14.83	16.50	45.70	8.58	26,926.92
Office Park	-	-	-	-	-
Government Office Building	34.16	42.24	129.05	24.37	70,189.95
Pharmacy/Drugstore without drive-through	3.22	4.04	12.28	2.32	6,435.07
Hospital	4.77	5.55	15.96	3.02	9,099.83
Warehouse	14.06	12.71	33.12	6.22	20,107.42
General Light Industry	0.39	0.39	1.11	0.21	638.72
General Heavy Industry	-	-	-	-	-

**Urbemis Code**

- Single Family Housing
- Urbemis Code**
- Apartments Low Rise
- Urbemis Code**
- Apartments Mid Rise
- Urbemis Code**
- Apartments High Rise
- Urbemis Code**
- Condo/Townhouse General + High Rise
- Urbemis Code**
- Congregate Care (Assisted Living) Facility
- Urbemis Code**
- Elementary School
- Urbemis Code**
- University/College (4 years)
- Urbemis Code**
- Place of Worship
- Urbemis Code**
- High Turnover (sit-down) Restaurant
- Urbemis Code**
- Hotel
- Urbemis Code**
- Free-Standing Discount Store
- Urbemis Code**
- Strip Mall
- Urbemis Code**
- Supermarket
- Urbemis Code**
- Convenience Market (24 Hour)
- Urbemis Code**
- General Office Building
- Urbemis Code**
- Office Park
- Urbemis Code**
- Government Office Building
- Urbemis Code**
- Pharmacy/Drugstore without drive-through
- Urbemis Code**
- Hospital
- Urbemis Code**
- Warehouse
- Urbemis Code**
- General Light Industry
- Urbemis Code**
- General Heavy Industry





2004122068	201 ND/MND	2004 Single family housing	3	1,800	5,400	0
2004052010	401 ND/MND	2004 Single family housing	3	1,800	5,400	0
2004012071	901 ND/MND	2004 Single family housing	3	1,800	5,400	0
2004052095	905 ND/MND	2004 Single family housing	3	1,800	5,400	0
2005072098	201 ND/MND	2005 Single family housing	3	1,800	5,400	0
2005048099	212 ND/MND	2005 Single family housing	3	1,800	5,400	0
2005078117	212 ND/MND	2005 Single family housing	3	1,800	5,400	0
2005092135	213 ND/MND	2005 Single family housing	3	1,800	5,400	0
2005082074	603 ND/MND	2005 Single family housing	3	1,800	5,400	0
2004042115	604 ND/MND	2005 Single family housing	3	1,800	5,400	0
2005042038	701 ND/MND	2005 Single family housing	3	1,800	5,400	0
2005012098	713 ND/MND	2005 Single family housing	3	1,800	5,400	0
2005022134	801 ND/MND	2005 Single family housing	3	1,800	5,400	0
2005042047	908 ND/MND	2005 Single family housing	3	1,800	5,400	0
2005022122	305 EIR	2006 Single family housing	3	1,800	5,400	0
2002092073	308 EIR	2006 Single family housing	3	1,800	5,400	0
2006052090	113 ND/MND	2006 Single family housing	3	1,800	5,400	0
2006022004	201 ND/MND	2006 Single family housing	3	1,800	5,400	0
2006122008	212 ND/MND	2006 Single family housing	3	1,800	5,400	0
2006092079	701 ND/MND	2006 Single family housing	3	1,800	5,400	0
2007042008	701 ND/MND	2007 Single family housing	3	1,800	5,400	0
2007092026	901 ND/MND	2007 Single family housing	3	1,800	5,400	0
2008022136	209 EIR	2008 Single family housing	3	1,800	5,400	0
2008052115	201 ND/MND	2008 Single family housing	3	1,800	5,400	0
2008032028	206 ND/MND	2008 Single family housing	3	1,800	5,400	0
2007112085	611 ND/MND	2008 Single family housing	3	1,800	5,400	0
2008012080	705 ND/MND	2008 Single family housing	3	1,800	5,400	0
2008042022	901 ND/MND	2008 Single family housing	3	1,800	5,400	0
2004072104	214 ND/MND	2004 Single family housing	3	1,800	5,400	0
2005039003	219 ND/MND	2005 Single family housing	3	1,800	5,400	0
2001079061	205 ND/MND	2001 Single family housing	4	1,800	7,200	0
225278	21 ND/MND	2002 Single family housing	4	1,800	7,200	0
227215	212 ND/MND	2002 Single family housing	4	1,800	7,200	0
282144	312 ND/MND	2002 Single family housing	4	1,800	7,200	0
227224	77 ND/MND	2002 Single family housing	4	1,800	7,200	0
2003022114	301 ND/MND	2003 Single family housing	4	1,800	7,200	0
2003082004	801 ND/MND	2003 Single family housing	4	1,800	7,200	0
2001072036	312 EIR	2004 Single family housing	4	1,800	7,200	0
2004102006	201 ND/MND	2004 Single family housing	4	1,800	7,200	0
2004082037	213 ND/MND	2004 Single family housing	4	1,800	7,200	0
2004062116	301 ND/MND	2004 Single family housing	4	1,800	7,200	0
2004052084	309 ND/MND	2004 Single family housing	4	1,800	7,200	0
2004052083	801 ND/MND	2004 Single family housing	4	1,800	7,200	0
2004042027	905 ND/MND	2004 Single family housing	4	1,800	7,200	0
2005092113	201 ND/MND	2005 Single family housing	4	1,800	7,200	0
2003062090	307 ND/MND	2005 Single family housing	4	1,800	7,200	0
2005012088	701 ND/MND	2005 Single family housing	4	1,800	7,200	0
2005062168	715 ND/MND	2005 Single family housing	4	1,800	7,200	0
2005102013	801 ND/MND	2005 Single family housing	4	1,800	7,200	0
2005112005	111 EIR	2006 Single family housing	4	1,800	7,200	0
2006042097	201 ND/MND	2006 Single family housing	4	1,800	7,200	0
2006038275	212 ND/MND	2006 Single family housing	4	1,800	7,200	0
2006082084	907 ND/MND	2006 Single family housing	4	1,800	7,200	0
2006092059	908 ND/MND	2006 Single family housing	4	1,800	7,200	0
2007032005	209 ND/MND	2007 Single family housing	4	1,800	7,200	0
2007042131	212 ND/MND	2007 Single family housing	4	1,800	7,200	0
2007052087	212 ND/MND	2007 Single family housing	4	1,800	7,200	0
2007022053	403 ND/MND	2007 Single family housing	4	1,800	7,200	0
2007052011	908 ND/MND	2007 Single family housing	4	1,800	7,200	0
2007082047	908 ND/MND	2007 Single family housing	4	1,800	7,200	0
2001072121	301 EIR	2008 Single family housing	4	1,800	7,200	0
225266	212 ND/MND	2002 Single family housing	5	1,800	9,000	0
224211	31 ND/MND	2002 Single family housing	5	1,800	9,000	0
2003112041	114 ND/MND	2003 Single family housing	5	1,800	9,000	0
2003122146	608 ND/MND	2003 Single family housing	5	1,800	9,000	0
2003042054	805 ND/MND	2003 Single family housing	5	1,800	9,000	0
2004052050	201 ND/MND	2004 Single family housing	5	1,800	9,000	0
2004092114	201 ND/MND	2004 Single family housing	5	1,800	9,000	0
2004122043	204 ND/MND	2004 Single family housing	5	1,800	9,000	0
2003062047	303 ND/MND	2004 Single family housing	5	1,800	9,000	0
2004022064	404 ND/MND	2004 Single family housing	5	1,800	9,000	0
2004042113	312 EIR	2005 Single family housing	5	1,800	9,000	0
2005032116	201 ND/MND	2005 Single family housing	5	1,800	9,000	0
2005122041	201 ND/MND	2005 Single family housing	5	1,800	9,000	0
2005092106	802 ND/MND	2005 Single family housing	5	1,800	9,000	0
2006112071	101 ND/MND	2006 Single family housing	5	1,800	9,000	0
2007102043	212 ND/MND	2007 Single family housing	5	1,800	9,000	0
2006102101	301 ND/MND	2007 Single family housing	5	1,800	9,000	0
2003032062	107 ND/MND	2003 Single family housing	6	1,800	10,800	0
2003122147	107 ND/MND	2003 Single family housing	6	1,800	10,800	0
2002122084	301 ND/MND	2003 Single family housing	6	1,800	10,800	0
2005012115	212 ND/MND	2005 Single family housing	6	1,800	10,800	0
2006032119	107 ND/MND	2006 Single family housing	6	1,800	10,800	0
2006052126	206 ND/MND	2006 Single family housing	6	1,800	10,800	0
2006102094	212 ND/MND	2006 Single family housing	6	1,800	10,800	0
2006019036	301 ND/MND	2006 Single family housing	6	1,800	10,800	0
2006092040	802 ND/MND	2006 Single family housing	6	1,800	10,800	0
2007122068	201 ND/MND	2007 Single family housing	6	1,800	10,800	0
1997102039	301 ND/MND	2008 Single family housing	6	1,800	10,800	0
2005052030	907 ND/MND	2005 Single family housing	7	1,800	12,600	0
221911	17 ND/MND	2002 Single family housing	7	1,800	12,600	0
22224	81 ND/MND	2002 Single family housing	7	1,800	12,600	0
2003029014	109 ND/MND	2003 Single family housing	7	1,800	12,600	0
2005072153	201 ND/MND	2005 Single family housing	7	1,800	12,600	0
2005082005	111 EIR	2006 Single family housing	7	1,800	12,600	0
2006112092	220 ND/MND	2006 Single family housing	7	1,800	12,600	0
2006112022	902 ND/MND	2006 Single family housing	7	1,800	12,600	0
2007032104	707 ND/MND	2007 Single family housing	7	1,800	12,600	0
2008032056	905 ND/MND	2008 Single family housing	7	1,800	12,600	0
2008032097	905 ND/MND	2008 Single family housing	7	1,800	12,600	0
2008032098	905 ND/MND	2008 Single family housing	7	1,800	12,600	0
2002062025	802 ND/MND	2004 Single family housing	8	1,800	14,400	0
222266	21 ND/MND	2002 Single family housing	8	1,800	14,400	0
2005032054	209 EIR	2005 Single family housing	8	1,800	14,400	0
2005052132	204 ND/MND	2005 Single family housing	8	1,800	14,400	0
2006072110	113 ND/MND	2006 Single family housing	8	1,800	14,400	0
2006122023	201 ND/MND	2006 Single family housing	8	1,800	14,400	0
2006069003	206 ND/MND	2006 Single family housing	8	1,800	14,400	0
2008042118	801 ND/MND	2008 Single family housing	8	1,800	14,400	0
221222	91 ND/MND	2002 Single family housing	9	1,800	16,200	0
2003042010	114 ND/MND	2003 Single family housing	9	1,800	16,200	0
2005092007	715 ND/MND	2005 Single family housing	9	1,800	16,200	0
2006052153	204 ND/MND	2006 Single family housing	9	1,800	16,200	0
2004032153	212 ND/MND	2004 Single family housing	10	1,800	18,000	0

2007052007	902 ND/MND	2007 Single family housing	10	1,800	18,000	0
2006032108	306 ND/MND	2007 Single family housing	11	1,800	19,800	0
2002052011	901 EIR	2003 Single family housing	11	1,800	19,800	0
2003032040	905 ND/MND	2003 Single family housing	11	1,800	19,800	0
2005099047	101 ND/MND	2005 Single family housing	11	1,800	19,800	0
2005082041	108 ND/MND	2005 Single family housing	11	1,800	19,800	0
2004122142	905 ND/MND	2005 Single family housing	11	1,800	19,800	0
2006062070	201 ND/MND	2006 Single family housing	11	1,800	19,800	0
2006112030	401 ND/MND	2006 Single family housing	11	1,800	19,800	0
2007062124	107 ND/MND	2007 Single family housing	11	1,800	19,800	0
2007022114	901 ND/MND	2007 Single family housing	11	1,800	19,800	0
22493	11 ND/MND	2002 Single family housing	12	1,800	21,600	0
1991053066	802 ND/MND	2003 Single family housing	12	1,800	21,600	0
2004092117	213 ND/MND	2004 Single family housing	12	1,800	21,600	0
2002022012	404 ND/MND	2004 Single family housing	12	1,800	21,600	0
2004092072	901 ND/MND	2004 Single family housing	12	1,800	21,600	0
2005072094	612 ND/MND	2005 Single family housing	12	1,800	21,600	0
2007072091	710 ND/MND	2007 Single family housing	12	1,800	21,600	0
215246	61 EIR	2002 Single family housing	13	1,800	23,400	0
2005122070	113 ND/MND	2005 Single family housing	13	1,800	23,400	0
2005012116	212 ND/MND	2005 Single family housing	13	1,800	23,400	0
2228	611 EIR	2002 Single family housing	14	1,800	25,200	0
2004092056	401 ND/MND	2004 Single family housing	14	1,800	25,200	0
2006092117	905 ND/MND	2006 Single family housing	14	1,800	25,200	0
2007102063	617 ND/MND	2008 Single family housing	14	1,800	25,200	0
2003022039	905 ND/MND	2003 Single family housing	15	1,800	27,000	0
224229	95 ND/MND	2002 Single family housing	15	1,800	27,000	0
2003102114	201 ND/MND	2003 Single family housing	15	1,800	27,000	0
2003032089	713 ND/MND	2003 Single family housing	15	1,800	27,000	0
2004122086	201 ND/MND	2004 Single family housing	15	1,800	27,000	0
2005072110	907 ND/MND	2005 Single family housing	15	1,800	27,000	0
2006112072	614 EIR	2007 Single family housing	15	1,800	27,000	0
2007072083	201 ND/MND	2007 Single family housing	15	1,800	27,000	0
2008022011	403 ND/MND	2008 Single family housing	15	1,800	27,000	0
228279	28 ND/MND	2002 Single family housing	16	1,800	28,800	0
2003082042	101 EIR	2004 Single family housing	16	1,800	28,800	0
2004062002	101 EIR	2004 Single family housing	16	1,800	28,800	0
2004082099	101 ND/MND	2004 Single family housing	16	1,800	28,800	0
2005052107	905 ND/MND	2005 Single family housing	16	1,800	28,800	0
2003032020	101 EIR	2006 Single family housing	16	1,800	28,800	0
2005092120	701 EIR	2006 Single family housing	16	1,800	28,800	0
2006082078	212 ND/MND	2006 Single family housing	16	1,800	28,800	0
2007112103	804 ND/MND	2007 Single family housing	16	1,800	28,800	0
2007102017	905 ND/MND	2007 Single family housing	16	1,800	28,800	0
221293	71 ND/MND	2002 Single family housing	17	1,800	30,600	0
223212	29 Q	2002 Single family housing	17	1,800	30,600	0
2002062090	701 EIR	2005 Single family housing	17	1,800	30,600	0
2005092133	908 ND/MND	2005 Single family housing	17	1,800	30,600	0
2006042157	201 ND/MND	2006 Single family housing	17	1,800	30,600	0
2006032101	212 ND/MND	2006 Single family housing	17	1,800	30,600	0
2007052129	201 ND/MND	2007 Single family housing	17	1,800	30,600	0
2008032078	805 ND/MND	2008 Single family housing	17	1,800	30,600	0
2000062033	707 EIR	2000 Single family housing	18	1,800	32,400	0
2005062176	704 EIR	2005 Single family housing	18	1,800	32,400	0
2005022083	404 ND/MND	2006 Single family housing	18	1,800	32,400	0
2006062020	404 ND/MND	2006 Single family housing	18	1,800	32,400	0
2006062021	306 EIR	2007 Single family housing	18	1,800	32,400	0
2005072009	804 ND/MND	2005 Single family housing	19	1,800	34,200	0
2003092032	619 EIR	2003 Single family housing	19	1,800	34,200	0
2003052133	908 ND/MND	2003 Single family housing	19	1,800	34,200	0
2004072123	901 ND/MND	2004 Single family housing	19	1,800	34,200	0
2006062019	701 ND/MND	2006 Single family housing	19	1,800	34,200	0
2006112057	907 EIR	2008 Single family housing	20	1,800	36,000	0
2004102099	212 ND/MND	2004 Single family housing	20	1,800	36,000	0
2003122028	905 ND/MND	2004 Single family housing	20	1,800	36,000	0
2005052036	212 ND/MND	2005 Single family housing	20	1,800	36,000	0
2004052108	101 EIR	2006 Single family housing	20	1,800	36,000	0
2006042011	201 ND/MND	2006 Single family housing	20	1,800	36,000	0
2006092007	212 ND/MND	2006 Single family housing	20	1,800	36,000	0
2006112126	212 ND/MND	2006 Single family housing	20	1,800	36,000	0
2007062021	802 EIR	2007 Single family housing	22	1,800	39,600	0
2003072136	215 ND/MND	2003 Single family housing	22	1,800	39,600	0
2004022045	404 ND/MND	2004 Single family housing	22	1,800	39,600	0
2004062010	707 EIR	2005 Single family housing	22	1,800	39,600	0
2006032084	201 ND/MND	2006 Single family housing	22	1,800	39,600	0
2006012065	206 ND/MND	2006 Single family housing	22	1,800	39,600	0
2007102125	108 ND/MND	2007 Single family housing	22	1,800	39,600	0
2252118	35 ND/MND	2002 Single family housing	23	1,800	41,400	0
1992073053	614 EIR	2006 Single family housing	23	1,800	41,400	0
2001102081	209 EIR	2003 Single family housing	23	1,800	41,400	0
2003032026	201 EIR	2004 Single family housing	23	1,800	41,400	0
2007112102	801 ND/MND	2007 Single family housing	23	1,800	41,400	0
2003112068	901 ND/MND	2003 Single family housing	25	1,800	45,000	0
2004032039	204 ND/MND	2004 Single family housing	25	1,800	45,000	0
2004022035	212 ND/MND	2004 Single family housing	25	1,800	45,000	0
2004052081	905 ND/MND	2004 Single family housing	25	1,800	45,000	0
2005062083	201 ND/MND	2005 Single family housing	25	1,800	45,000	0
2005082114	212 ND/MND	2005 Single family housing	25	1,800	45,000	0
2005042036	713 ND/MND	2005 Single family housing	25	1,800	45,000	0
2006062080	113 ND/MND	2006 Single family housing	25	1,800	45,000	0
2003112008	107 ND/MND	2003 Single family housing	26	1,800	46,800	0
2004052025	901 ND/MND	2004 Single family housing	26	1,800	46,800	0
2005022084	404 ND/MND	2005 Single family housing	26	1,800	46,800	0
2006062088	212 ND/MND	2006 Single family housing	26	1,800	46,800	0
2007012114	905 ND/MND	2007 Single family housing	26	1,800	46,800	0
2005012075	617 ND/MND	2006 Single family housing	27	1,800	48,600	0
1995063038	301 EIR	2005 Single family housing	28	1,800	50,400	1
2004082101	215 ND/MND	2004 Single family housing	28	1,800	50,400	1
2008012089	111 ND/MND	2008 Single family housing	28	1,800	50,400	1
1992083076	905 EIR	2003 Single family housing	29	1,800	52,200	1
2004092013	905 ND/MND	2004 Single family housing	29	1,800	52,200	1
2006062150	614 EIR	2007 Single family housing	29	1,800	52,200	1
1996052025	109 EIR	2004 Single family housing	30	1,800	54,000	1
2005082092	212 ND/MND	2005 Single family housing	30	1,800	54,000	1
2007092081	905 ND/MND	2007 Single family housing	30	1,800	54,000	1
2003022012	905 ND/MND	2003 Single family housing	31	1,800	55,800	1
2006012003	207 ND/MND	2006 Single family housing	31	1,800	55,800	1
2003012108	610 EIR	2003 Single family housing	32	1,800	57,600	1
2003122029	905 ND/MND	2004 Single family housing	32	1,800	57,600	1
2004012102	111 EIR	2005 Single family housing	32	1,800	57,600	1
2005072122	801 ND/MND	2005 Single family housing	32	1,800	57,600	1
2006102132	905 ND/MND	2006 Single family housing	32	1,800	57,600	1
2006052063	107 ND/MND	2007 Single family housing	32	1,800	57,600	1
2007102018	905 ND/MND	2007 Single family housing	32	1,800	57,600	1

2002012071	619 EIR	2003 Single family housing	34	1,800	61,200	1
2004082083	905 ND/MND	2004 Single family housing	34	1,800	61,200	1
2007062100	905 ND/MND	2007 Single family housing	34	1,800	61,200	1
2008032025	212 ND/MND	2008 Single family housing	34	1,800	61,200	1
2006102052	405 ND/MND	2007 Single family housing	35	1,800	63,000	1
2004042119	215 ND/MND	2004 Single family housing	35	1,800	63,000	1
2003022062	211 EIR	2006 Single family housing	35	1,800	63,000	1
2006102088	212 ND/MND	2006 Single family housing	35	1,800	63,000	1
2007079026	203 ND/MND	2007 Single family housing	35	1,800	63,000	1
2005052026	213 EIR	2007 Single family housing	36	1,800	64,800	1
2005062069	217 EIR	2006 Single family housing	36	1,800	64,800	1
2006052032	203 ND/MND	2006 Single family housing	37	1,800	66,600	1
2006032066	713 ND/MND	2006 Single family housing	38	1,800	68,400	1
2006102064	713 ND/MND	2006 Single family housing	38	1,800	68,400	1
2003042129	905 ND/MND	2003 Single family housing	39	1,800	70,200	1
2002012029	201 EIR	2004 Single family housing	39	1,800	70,200	1
2005072105	905 ND/MND	2005 Single family housing	39	1,800	70,200	1
2006082063	905 ND/MND	2006 Single family housing	39	1,800	70,200	1
2008032107	905 ND/MND	2008 Single family housing	39	1,800	70,200	1
2002072110	214 EIR	2003 Single family housing	40	1,800	72,000	1
2003102107	201 EIR	2006 Single family housing	40	1,800	72,000	1
2005042075	212 ND/MND	2005 Single family housing	41	1,800	73,800	1
2004092033	201 ND/MND	2004 Single family housing	41	1,800	73,800	1
2007092009	305 ND/MND	2007 Single family housing	43	1,800	77,400	1
112278	614 EIR	2002 Single family housing	43	1,800	77,400	1
2004052088	212 ND/MND	2004 Single family housing	44	1,800	79,200	1
2005092117	713 ND/MND	2005 Single family housing	44	1,800	79,200	1
2003092099	805 EIR	2004 Single family housing	45	1,800	81,000	1
2004022112	905 ND/MND	2004 Single family housing	45	1,800	81,000	1
2005022048	905 ND/MND	2005 Single family housing	46	1,800	82,800	1
222269	93 ND/MND	2002 Single family housing	47	1,800	84,600	1
2005062159	612 EIR	2005 Single family housing	47	1,800	84,600	1
2003062029	212 ND/MND	2003 Single family housing	48	1,800	86,400	1
225922	44 ND/MND	2002 Single family housing	49	1,800	88,200	1
2003072043	109 ND/MND	2003 Single family housing	49	1,800	88,200	1
2005022085	404 ND/MND	2005 Single family housing	49	1,800	88,200	1
2111271	712 EIR	2002 Single family housing	49	1,800	88,200	1
2003042156	215 ND/MND	2003 Single family housing	50	1,800	90,000	1
2004052037	905 ND/MND	2004 Single family housing	50	1,800	90,000	1
2006102087	212 ND/MND	2006 Single family housing	50	1,800	90,000	1
226295	713 EIR	2002 Single family housing	51	1,800	91,800	1
2004052114	905 ND/MND	2004 Single family housing	51	1,800	91,800	1
2006042096	608 ND/MND	2006 Single family housing	51	1,800	91,800	1
22592	23 ND/MND	2002 Single family housing	53	1,800	95,400	1
2006112010	704 ND/MND	2006 Single family housing	53	1,800	95,400	1
228261	95 ND/MND	2002 Single family housing	55	1,800	99,000	1
2004072069	713 ND/MND	2004 Single family housing	55	1,800	99,000	1
2007102131	714 EIR	2008 Single family housing	57	1,800	102,600	2
2003012070	704 EIR	2003 Single family housing	60	1,800	108,000	2
2003092020	219 EIR	2004 Single family housing	60	1,800	108,000	2
2004082119	215 ND/MND	2004 Single family housing	60	1,800	108,000	2
1032075	712 ND/MND	2003 Single family housing	61	1,800	109,800	2
2004072099	219 ND/MND	2004 Single family housing	68	1,800	122,400	2
2002122052	803 ND/MND	2003 Single family housing	69	1,800	124,200	2
2005112033	805 ND/MND	2007 Single family housing	70	1,800	126,000	2
2006012064	212 ND/MND	2006 Single family housing	71	1,800	127,800	2
2006112006	704 ND/MND	2006 Single family housing	71	1,800	127,800	2
2005012128	404 EIR	2007 Single family housing	72	1,800	129,600	2
2005042026	111 EIR	2005 Single family housing	74	1,800	133,200	2
2003069014	710 ND/MND	2003 Single family housing	75	1,800	135,000	2
2005068158	203 ND/MND	2005 Single family housing	75	1,800	135,000	2
2006122107	212 ND/MND	2006 Single family housing	75	1,800	135,000	2
2006012054	804 ND/MND	2006 Single family housing	75	1,800	135,000	2
221223	713 EIR	2002 Single family housing	78	1,800	140,400	2
2007052114	905 ND/MND	2007 Single family housing	78	1,800	140,400	2
226278	95 EIR	2002 Single family housing	82	1,800	147,600	2
1022064	206 EIR	2007 Single family housing	84	1,800	151,200	2
2005099069	203 ND/MND	2005 Single family housing	84	1,800	151,200	2
2004122070	201 ND/MND	2004 Single family housing	85	1,800	153,000	2
2004072083	212 ND/MND	2004 Single family housing	87	1,800	156,600	2
2006112031	704 ND/MND	2006 Single family housing	87	1,800	156,600	2
2006032074	201 ND/MND	2006 Single family housing	89	1,800	160,200	2
2004072046	203 ND/MND	2004 Single family housing	90	1,800	162,000	2
2004092125	402 ND/MND	2004 Single family housing	91	1,800	163,800	2
2005082083	905 ND/MND	2005 Single family housing	94	1,800	169,200	2
2003032127	905 ND/MND	2003 Single family housing	98	1,800	176,400	2
2004012013	113 EIR	2006 Single family housing	98	1,800	176,400	2
2006052184	212 ND/MND	2006 Single family housing	98	1,800	176,400	2
2004092074	620 ND/MND	2005 Single family housing	99	1,800	178,200	2
2004082117	212 ND/MND	2004 Single family housing	100	1,800	180,000	2
2004062020	215 ND/MND	2004 Single family housing	100	1,800	180,000	2
1997107675	401 ND/MND	2005 Single family housing	100	1,800	180,000	2
2007032027	102 EIR	2007 Single family housing	104	1,800	187,200	2
2004102025	713 ND/MND	2004 Single family housing	105	1,800	189,000	2
2006052040	203 ND/MND	2006 Single family housing	106	1,800	190,800	2
2004122126	905 EIR	2005 Single family housing	108	1,800	194,400	2
2003072093	714 EIR	2007 Single family housing	110	1,800	198,000	2
2003092038	713 EIR	2003 Single family housing	112	1,800	201,600	3
213293	111 EIR	2002 Single family housing	115	1,800	207,000	3
215297	617 EIR	2002 Single family housing	115	1,800	207,000	3
2006032127	212 ND/MND	2006 Single family housing	116	1,800	208,800	3
2004122128	203 ND/MND	2004 Single family housing	116	1,800	208,800	3
2212223	713 ND/MND	2002 Single family housing	118	1,800	212,400	3
2005012073	704 ND/MND	2005 Single family housing	118	1,800	212,400	3
229176	115 ND/MND	2002 Single family housing	119	1,800	214,200	3
2000012110	217 EIR	2007 Single family housing	120	1,800	216,000	3
2006059025	203 ND/MND	2006 Single family housing	122	1,800	219,600	3
2005042134	109 EIR	2006 Single family housing	123	1,800	221,400	3
2005072109	215 ND/MND	2005 Single family housing	123	1,800	221,400	3
1992083074	211 EIR	2007 Single family housing	123	1,800	221,400	3
2007059022	211 ND/MND	2007 Single family housing	123	1,800	221,400	3
2006012031	108 ND/MND	2006 Single family housing	126	1,800	226,800	3
22721	713 EIR	2002 Single family housing	128	1,800	230,400	3
2003042035	905 EIR	2004 Single family housing	129	1,800	232,200	3
2007112021	202 ND/MND	2007 Single family housing	136	1,800	244,800	3
2004022099	704 ND/MND	2004 Single family housing	137	1,800	246,600	3
2007092019	905 ND/MND	2007 Single family housing	137	1,800	246,600	3
2002092016	905 EIR	2004 Single family housing	138	1,800	248,400	3
2005092027	108 ND/MND	2005 Single family housing	139	1,800	250,200	3
2000052109	604 EIR	2004 Single family housing	148	1,800	266,400	3
2006022061	108 ND/MND	2006 Single family housing	150	1,800	270,000	3
2003062019	203 EIR	2004 Single family housing	150	1,800	270,000	3
2005072103	109 ND/MND	2005 Single family housing	155	1,800	279,000	3
2004082100	805 EIR	2004 Single family housing	156	1,800	280,800	3



2005042134	109 EIR	2006 Apartments low rise	24	850	20,400	0
2006032108	306 ND/MND	2007 Apartments low rise	6	850	5,100	0
226295	713 EIR	2002 Apartments low rise	6	850	5,100	0
2252118	35 ND/MND	2002 Apartments low rise	24	850	20,400	0
2003022012	905 ND/MND	2003 Apartments low rise	4	850	3,400	0
2003022039	905 ND/MND	2003 Apartments low rise	2	850	1,700	0
2004052114	905 ND/MND	2004 Apartments low rise	17	850	14,450	0
2004122024	714 ND/MND	2005 Apartments low rise	19	850	16,150	0
2005022048	905 ND/MND	2005 Apartments low rise	4	850	3,400	0
2006052045	406 ND/MND	2006 Apartments low rise	4	850	3,400	0
1022064	206 EIR	2007 Apartments low rise	12	850	10,200	0
2006102052	405 ND/MND	2007 Apartments low rise	10	850	8,500	0
2006112057	907 EIR	2008 Apartments low rise	6	850	5,100	0
2005072009	804 ND/MND	2005 Apartments low rise	10	850	8,500	0
2007082159	906 ND/MND	2007 Apartments low rise	36	850	30,600	0
2004102008	501 EIR	2005 Apartments low rise	30	850	25,500	0
2003062055	301 ND/MND	2003 Apartments low rise	50	850	42,500	0
2003082066	705 ND/MND	2003 Apartments low rise	56	850	47,600	0
2004122093	206 ND/MND	2004 Apartments low rise	55	850	46,750	0
2005042151	705 ND/MND	2005 Apartments low rise	56	850	47,600	0
2005092090	714 EIR	2006 Apartments low rise	56	850	47,600	0
2007032020	105 ND/MND	2007 Apartments low rise	33	850	28,050	0
2007112083	905 ND/MND	2007 Apartments low rise	56	850	47,600	0
2008022060	905 ND/MND	2008 Apartments low rise	32	850	27,200	0
2006072001	207 ND/MND	2006 Apartments low rise	58	850	49,300	0
2002102054	104 EIR	2008 Apartments low rise	44	850	37,400	0
2008062067	617 ND/MND	2008 Apartments low rise	48	850	40,800	0
2005012125	115 ND/MND	2005 Apartments low rise	32	850	27,200	0
2004122126	905 EIR	2005 Apartments low rise	49	850	41,650	0
225214	28 ND/MND	2002 Apartments low rise	78	850	66,300	1
2002022008	901 ND/MND	2002 Apartments low rise	80	850	68,000	1
2004102042	101 EIR	2004 Apartments low rise	83	850	70,550	1
2004072070	905 ND/MND	2004 Apartments low rise	70	850	59,500	1
2006062109	905 ND/MND	2006 Apartments low rise	84	850	71,400	1
2007109015	619 ND/MND	2007 Apartments low rise	60	850	51,000	1
2007122036	908 ND/MND	2007 Apartments low rise	65	850	55,250	1
2007012109	501 EIR	2008 Apartments low rise	85	850	72,250	1
2004029040	303 ND/MND	2004 Apartments low rise	79	850	67,150	1
2005012014	310 EIR	2007 Apartments low rise	84	850	71,400	1
2003032127	905 ND/MND	2003 Apartments low rise	66	850	56,100	1
2002102110	712 EIR	2003 Apartments low rise	90	850	76,500	1
2005122091	804 ND/MND	2006 Apartments low rise	94	850	79,900	1
2006052105	905 ND/MND	2006 Apartments low rise	95	850	80,750	1
2001122073	212 EIR	2003 Apartments low rise	96	850	81,600	1
2003052042	101 EIR	2004 Apartments low rise	100	850	85,000	1
2212946	37 ND/MND	2002 Apartments low rise	128	850	108,800	2
2003122069	905 ND/MND	2004 Apartments low rise	128	850	108,800	2
2006052185	905 ND/MND	2006 Apartments low rise	126	850	107,100	2
2003062051	404 ND/MND	2003 Apartments low rise	124	850	105,400	2
2005032082	903 ND/MND	2005 Apartments low rise	144	850	122,400	2
2005112050	307 ND/MND	2005 Apartments low rise	125	850	106,250	2
2001022050	305 ND/MND	2004 Apartments low rise	126	850	107,100	2
2004072085	905 ND/MND	2004 Apartments low rise	162	850	137,700	2
2007112090	111 ND/MND	2007 Apartments low rise	164	850	139,400	2
2004122136	218 ND/MND	2004 Apartments low rise	200	850	170,000	2
2003032004	901 ND/MND	2003 Apartments low rise	232	850	197,200	2
2007052051	115 ND/MND	2007 Apartments low rise	212	850	180,200	2
2005052146	105 EIR	2006 Apartments low rise	291	850	247,350	3
2007012025	109 ND/MND	2007 Apartments low rise	510	850	433,500	4
2003112011	904 EIR	2006 Apartments low rise	472	850	401,200	4
2007042022	219 EIR	2007 Apartments low rise	487	850	413,950	4
2006052102	114 EIR	2007 Apartments low rise	590	850	501,500	4
2003122087	219 EIR	2006 Apartments low rise	735	850	624,750	5
2002102087	101 EIR	2003 Apartments low rise	850	850	722,500	5
2004062064	219 EIR	2006 Apartments low rise	830	850	705,500	5
2003062019	203 EIR	2004 Apartments low rise	1100	850	935,000	6
2003122014	904 EIR	2006 Apartments low rise	1267	850	1,076,950	7
2004062013	111 EIR	2006 Apartments low rise	3100	850	2,635,000	8
2004092011	212 EIR	2008 Apartments low rise	5609	850	4,767,650	8
2005122122	905 ND/MND	2006 Apartments mid rise	195	850	165,750	2
2002052143	905 EIR	2005 Apartments mid rise	266	850	226,100	3
2004092101	217 EIR	2006 Apartments mid rise	330	850	280,500	3
2004092009	201 EIR	2007 Apartments mid rise	450	850	382,500	3
2005062075	617 ND/MND	2005 Apartments mid rise	202	850	171,700	2
2004032021	207 EIR	2005 Apartments mid rise	97	850	82,450	1
2003122009	108 EIR	2004 Apartments mid rise	475	850	403,750	4
2003112102	708 EIR	2005 Apartments mid rise	683	850	580,550	4
2005112128	111 EIR	2007 Apartments mid rise	810	850	688,500	5
2003092106	208 ND/MND	2003 Apartments mid rise	148	850	125,800	2
2003102058	620 ND/MND	2003 Apartments mid rise	370	850	314,500	3
2004062054	612 EIR	2006 Apartments mid rise	135	850	114,750	2
2007102129	501 ND/MND	2007 Apartments mid rise	56	850	47,600	0
2006042067	501 EIR	2006 Apartments mid rise	135	850	114,750	2
1112021	712 EIR	2003 Apartments mid rise	302	850	256,700	3
2004082131	708 EIR	2004 Apartments mid rise	110	850	93,500	1
216241	713 EIR	2002 Apartments mid rise	675	850	573,750	4
2002122124	202 EIR	2003 Apartments mid rise	240	850	204,000	3
2007072019	107 ND/MND	2007 Apartments mid rise	158	850	134,300	2
199632128	111 EIR	2002 Apartments mid rise	3	850	2,550	0
19927312	619 EIR	2002 Apartments mid rise	144	850	122,400	2
2211262	216 ND/MND	2002 Apartments mid rise	163	850	138,550	2
2002012089	107 EIR	2003 Apartments mid rise	191	850	162,350	2
2002072047	108 EIR	2003 Apartments mid rise	800	850	680,000	5
2003022044	217 EIR	2003 Apartments mid rise	64	850	54,400	1
2003102152	714 ND/MND	2003 Apartments mid rise	306	850	260,100	3
2002122041	803 ND/MND	2003 Apartments mid rise	200	850	170,000	2
1997072039	104 EIR	2004 Apartments mid rise	1129	850	959,650	6
1042052	111 EIR	2004 Apartments mid rise	477	850	405,450	4
2003102024	501 EIR	2004 Apartments mid rise	88	850	74,800	1
2001112025	906 EIR	2004 Apartments mid rise	115	850	97,750	1
2004052024	108 ND/MND	2004 Apartments mid rise	57	850	48,450	0
2004052039	713 ND/MND	2004 Apartments mid rise	218	850	185,300	2
2004092076	801 ND/MND	2004 Apartments mid rise	400	850	340,000	3
2005102068	108 ND/MND	2005 Apartments mid rise	628	850	533,800	4
2005112109	701 ND/MND	2005 Apartments mid rise	600	850	510,000	4
2005082134	711 ND/MND	2005 Apartments mid rise	106	850	90,100	1
2005092079	104 EIR	2006 Apartments mid rise	173	850	147,050	2
2005092069	115 EIR	2006 Apartments mid rise	438	850	372,300	3
1991073029	215 EIR	2006 Apartments mid rise	330	850	280,500	3
2006012107	108 ND/MND	2006 Apartments mid rise	78	850	66,300	1
2006079024	218 ND/MND	2006 Apartments mid rise	144	850	122,400	2
2006082001	402 ND/MND	2006 Apartments mid rise	1718	850	1,460,300	7
2006072097	710 ND/MND	2006 Apartments mid rise	229	850	194,650	2
2006052025	711 ND/MND	2006 Apartments mid rise	120	850	102,000	2







2007092014	402 EIR	2008 High school (units in students)	2200	92	202,400	3
2001052015	203 ND/MND	2001 High school (units in students)	800	92	73,600	1
225213	68 ND/MND	2002 High school (units in students)	28	92	2,576	0
2242117	91 ND/MND	2002 High school (units in students)	4	92	368	0
2003032043	601 ND/MND	2003 High school (units in students)	240	92	22,080	0
2003122041	704 ND/MND	2004 High school (units in students)	630	92	57,960	1
2005082124	105 EIR	2005 High school (units in students)	500	92	46,000	0
2004062029	704 EIR	2005 High school (units in students)	1800	92	165,600	2
2005062044	111 ND/MND	2005 High school (units in students)	420	92	38,640	0
2007012107	107 ND/MND	2007 High school (units in students)	729	92	67,068	1
2007112116	114 ND/MND	2007 High school (units in students)	800	92	73,600	1
2007042071	207 ND/MND	2007 High school (units in students)	97	92	8,924	0
2007102119	901 ND/MND	2007 High school (units in students)	170	92	15,640	0
2008062039	405 ND/MND	2008 University/college (4 yrs) (units in students)	96	92	8,832	0
2003072072	108 ND/MND	2003 University/college (4 yrs) (units in students)	416	92	38,272	0
2004052080	107 ND/MND	2005 Junior college (2 yrs) (units in sqft)	160	1000	160,000	2
217295	14 EIR	2002 Junior college (2 yrs) (units in sqft)	16	1000	16,000	0
19965215	63 EIR	2002 Junior college (2 yrs) (units in sqft)	145.5	1000	145,500	2
21125	71 EIR	2002 Junior college (2 yrs) (units in sqft)	149.4	1000	149,400	2
21124	81 EIR	2002 Junior college (2 yrs) (units in sqft)	191	1000	191,000	2
222222	18 ND/MND	2002 Junior college (2 yrs) (units in sqft)	28.8	1000	28,800	0
227253	18 ND/MND	2002 Junior college (2 yrs) (units in sqft)	55	1000	55,000	1
2002072001	501 EIR	2003 Junior college (2 yrs) (units in sqft)	125	1000	125,000	2
2003072156	107 ND/MND	2003 Junior college (2 yrs) (units in sqft)	84	1000	84,000	1
2003012060	108 ND/MND	2003 Junior college (2 yrs) (units in sqft)	6.5	1000	6,500	0
2003072082	108 ND/MND	2003 Junior college (2 yrs) (units in sqft)	51.5	1000	51,500	1
2003082083	202 ND/MND	2003 Junior college (2 yrs) (units in sqft)	40	1000	40,000	0
2003092047	801 ND/MND	2003 Junior college (2 yrs) (units in sqft)	46.2	1000	46,200	0
2000062092	710 ND/MND	2004 Junior college (2 yrs) (units in sqft)	58.9	1000	58,900	1
2005092081	108 ND/MND	2005 Junior college (2 yrs) (units in sqft)	345	1000	345,000	3
2006022009	107 ND/MND	2006 Junior college (2 yrs) (units in sqft)	43.8	1000	43,800	0
2004042073	401 EIR	2007 Junior college (2 yrs) (units in sqft)	180	1000	180,000	2
2007091014	701 EIR	2008 Junior college (2 yrs) (units in sqft)	62	1000	62,000	1
2007122006	701 EIR	2008 Junior college (2 yrs) (units in sqft)	10	1000	10,000	0
2001012040	701 EIR	2006 Junior college (2 yrs) (units in students)	5000	92	460,000	4
2007032097	301 EIR	2007 Junior college (2 yrs) (units in students)	1180	92	108,560	2
2007032098	301 EIR	2007 Junior college (2 yrs) (units in students)	6402	92	588,984	4
2007058271	108 ND/MND	2007 Junior college (2 yrs) (units in students)	200	92	18,400	0
2005039003	219 ND/MND	2005 Place of worship	1	1000	1,000	0
22127	15 EIR	2002 Place of worship	187	1000	187,000	2
212287	616 EIR	2002 Place of worship	16	1000	16,000	0
2003062061	111 ND/MND	2003 Place of worship	19.7	1000	19,700	0
2004052093	101 ND/MND	2004 Place of worship	3.3	1000	3,300	0
2005052028	107 ND/MND	2005 Place of worship	143	1000	143,000	2
2003072099	109 ND/MND	2005 Place of worship	121.3	1000	121,300	2
2005032133	212 ND/MND	2005 Place of worship	47.8	1000	47,800	0
2004022079	101 EIR	2006 Place of worship	48	1000	48,000	0
2006012006	107 ND/MND	2006 Place of worship	14.2	1000	14,200	0
2006102117	403 ND/MND	2006 Place of worship	17.1	1000	17,100	0
2007032094	212 ND/MND	2007 Place of worship	24	1000	24,000	0
2006102084	403 ND/MND	2007 Place of worship	3.7	1000	3,700	0
2006122035	714 ND/MND	2007 Place of worship	93.2	1000	93,200	1
2007072040	715 ND/MND	2007 Place of worship	72.7	1000	72,700	1
2008072116	201 ND/MND	2008 Place of worship	73	1000	73,000	1
2008022067	206 ND/MND	2008 Place of worship	18.4	1000	18,400	0
2005022133	908 ND/MND	2005 Place of worship	10	1000	10,000	0
225215	713 ND/MND	2002 Library	24	1000	24,000	0
22328	712 EIR	2002 Library	4	1000	4,000	0
224285	712 EIR	2002 Library	55	1000	55,000	1
221226	11 ND/MND	2002 Library	41.2	1000	41,200	0
211296	14 ND/MND	2002 Library	28.8	1000	28,800	0
224264	28 ND/MND	2002 Library	2.4	1000	2,400	0
224217	215 ND/MND	2002 Library	26.3	1000	26,300	0
222248	613 ND/MND	2002 Library	12.3	1000	12,300	0
2242132	71 ND/MND	2002 Library	4	1000	4,000	0
2232146	713 ND/MND	2002 Library	26	1000	26,000	0
2242142	85 ND/MND	2002 Library	36	1000	36,000	0
2003082098	101 ND/MND	2003 Library	37	1000	37,000	0
2003102020	115 ND/MND	2003 Library	80	1000	80,000	1
2003012057	202 ND/MND	2003 Library	45	1000	45,000	0
2003082067	209 ND/MND	2003 Library	25	1000	25,000	0
2002122093	610 ND/MND	2003 Library	25.8	1000	25,800	0
2003112062	713 ND/MND	2003 Library	20	1000	20,000	0
2003112063	713 ND/MND	2003 Library	20	1000	20,000	0
1990030601	102 EIR	2004 Library	47.5	1000	47,500	0
2002032011	603 EIR	2004 Library	20.2	1000	20,200	0
2002032051	310 ND/MND	2004 Library	12.1	1000	12,100	0
2003052093	501 ND/MND	2004 Library	155.1	1000	155,100	2
2003012114	616 ND/MND	2004 Library	22.6	1000	22,600	0
2004082131	708 EIR	2004 Library	60	1000	60,000	1
2003072022	219 EIR	2003 Library	50	1000	50,000	1
2001072066	501 EIR	2007 Racquetball/health	48.8	1000	48,800	0
111274	21 EIR	2002 Racquetball/health	4.3	1000	4,300	0
225814	14 ND/MND	2002 Racquetball/health	1	1000	1,000	0
221257	617 ND/MND	2002 Racquetball/health	56	1000	56,000	1
225289	62 ND/MND	2002 Racquetball/health	44.9	1000	44,900	0
2003109021	217 ND/MND	2003 Racquetball/health	10	1000	10,000	0
2004012039	212 ND/MND	2004 Racquetball/health	8	1000	8,000	0
2008042127	708 ND/MND	2008 Racquetball/health	22	1000	22,000	0
2006012091	102 EIR	2006 Racquetball/health	20	1000	20,000	0
215285	62 EIR	2002 Racquetball/health	5	1000	5,000	0
2005111052	216 ND/MND	2005 High turnover (sit-down) rest.	10.4	1000	10,400	0
2007032084	404 EIR	2008 High turnover (sit-down) rest.	29	1000	29,000	0
2008022117	905 EIR	2008 High turnover (sit-down) rest.	4.5	1000	4,500	0
2005044002	201 ND/MND	2005 High turnover (sit-down) rest.	25	1000	25,000	0
2005032024	501 EIR	2006 High turnover (sit-down) rest.	2.1	1000	2,100	0
2003072028	613 ND/MND	2003 High turnover (sit-down) rest.	8.3	1000	8,300	0
2005062167	108 ND/MND	2005 High turnover (sit-down) rest.	4.2	1000	4,200	0
215285	62 EIR	2002 High turnover (sit-down) rest.	8	1000	8,000	0
2006122100	201 ND/MND	2006 Quality resturant	1.8	1000	1,800	0
2006072101	501 EIR	2007 Quality resturant	5.3	1000	5,300	0
2007032162	705 ND/MND	2007 Quality resturant	3	1000	3,000	0
2008032088	404 ND/MND	2008 Quality resturant	4	1000	4,000	0
2007102123	403 ND/MND	2007 Quality resturant	27.5	1000	27,500	0
2008032015	215 ND/MND	2008 Quality resturant	6.5	1000	6,500	0
2003112066	106 ND/MND	2003 Quality resturant	6	1000	6,000	0
2008062039	405 ND/MND	2008 Quality resturant	3.5	1000	3,500	0
2004082131	708 EIR	2004 Quality resturant	25	1000	25,000	0
2002052062	501 EIR	2003 Quality resturant	9.4	1000	9,400	0
2003042058	306 ND/MND	2003 Fast food rest. w/ drive thru	0.5	1000	500	0
2006068294	212 ND/MND	2006 Fast food rest. w/ drive thru	5.6	1000	5,600	0
2007012080	805 ND/MND	2007 Fast food rest. w/ drive thru	3.5	1000	3,500	0
2004102065	212 ND/MND	2004 Fast food rest. w/ drive thru	2.2	1000	2,200	0
2003072028	613 ND/MND	2003 Fast food rest. w/ drive thru	7.7	1000	7,700	0



211261	712 EIR	2002 Strip mall	2.8	1000	2,800	0
2001112109	501 EIR	2006 Strip mall	9.4	1000	9,400	0
2007092082	905 ND/MND	2007 Strip mall	7.9	1000	7,900	0
2005044002	201 ND/MND	2005 Strip mall	450	1000	450,000	4
1990030951	804 EIR	2007 Strip mall	5.8	1000	5,800	0
2003112066	106 ND/MND	2003 Strip mall	4.4	1000	4,400	0
2006012003	207 ND/MND	2006 Strip mall	3.4	1000	3,400	0
2212217	18 ND/MND	2002 Strip mall	1	1000	1,000	0
228213	44 ND/MND	2002 Strip mall	2	1000	2,000	0
224216	63 ND/MND	2002 Strip mall	17.5	1000	17,500	0
2000102009	903 EIR	2003 Strip mall	209	1000	209,000	3
2003062048	905 ND/MND	2003 Strip mall	39.8	1000	39,800	0
2004062011	108 ND/MND	2004 Strip mall	20	1000	20,000	0
2004022020	608 ND/MND	2004 Strip mall	0.3	1000	300	0
2005079027	111 ND/MND	2005 Strip mall	20	1000	20,000	0
2005038017	212 ND/MND	2005 Strip mall	10.7	1000	10,700	0
2005022016	905 ND/MND	2005 Strip mall	39.5	1000	39,500	0
2004122042	102 ND/MND	2006 Strip mall	3.5	1000	3,500	0
2006052016	212 ND/MND	2006 Strip mall	10.1	1000	10,100	0
2006072083	219 ND/MND	2006 Strip mall	0.7	1000	700	0
2006092108	801 ND/MND	2006 Strip mall	5	1000	5,000	0
2006032033	901 ND/MND	2006 Strip mall	7.3	1000	7,300	0
2006062004	901 ND/MND	2006 Strip mall	2.4	1000	2,400	0
2006072046	901 ND/MND	2006 Strip mall	3.4	1000	3,400	0
2006122077	907 ND/MND	2006 Strip mall	17.7	1000	17,700	0
2006052161	908 EIR	2007 Strip mall	305	1000	305,000	3
2007112067	712 ND/MND	2007 Strip mall	12	1000	12,000	0
2007022036	901 ND/MND	2007 Strip mall	7.2	1000	7,200	0
2008012104	212 ND/MND	2008 Strip mall	0.5	1000	500	0
2008032059	402 ND/MND	2008 Strip mall	29.3	1000	29,300	0
2008042115	619 ND/MND	2008 Strip mall	33.3	1000	33,300	0
218284	51 EIR	2002 Strip mall	394	1000	394,000	3
2003072016	501 EIR	2006 Strip mall	60	1000	60,000	1
2008022100	501 EIR	2008 Strip mall	1.5	1000	1,500	0
2007122020	501 ND/MND	2008 Strip mall	15.8	1000	15,800	0
2005052021	905 ND/MND	2005 Strip mall	16.8	1000	16,800	0
2005012094	905 ND/MND	2005 Strip mall	46.2	1000	46,200	0
2006072001	207 ND/MND	2006 Strip mall	11	1000	11,000	0
2006052185	905 ND/MND	2006 Strip mall	98.5	1000	98,500	1
2006062021	306 EIR	2007 Strip mall	3.2	1000	3,200	0
2007102067	905 ND/MND	2007 Strip mall	6	1000	6,000	0
2002102054	104 EIR	2008 Strip mall	2.8	1000	2,800	0
2007012109	501 EIR	2008 Strip mall	1	1000	1,000	0
2006022075	111 EIR	2008 Strip mall	42.5	1000	42,500	0
2003042029	703 ND/MND	2003 Strip mall	20.4	1000	20,400	0
2004112037	501 EIR	2008 Strip mall	15	1000	15,000	0
1122098	704 ND/MND	2000 Strip mall	11	1000	11,000	0
2252127	111 ND/MND	2002 Strip mall	22	1000	22,000	0
2004032052	111 EIR	2004 Strip mall	40	1000	40,000	0
2003072110	616 EIR	2004 Strip mall	8.3	1000	8,300	0
2004012110	111 EIR	2005 Strip mall	13	1000	13,000	0
2005092115	106 ND/MND	2005 Strip mall	5.5	1000	5,500	0
2005012034	107 ND/MND	2005 Strip mall	58	1000	58,000	1
2007122028	111 ND/MND	2007 Strip mall	3	1000	3,000	0
2007072111	104 EIR	2008 Strip mall	2.6	1000	2,600	0
2007092005	106 EIR	2008 Strip mall	1	1000	1,000	0
2007122089	111 EIR	2008 Strip mall	7.7	1000	7,700	0
2008032002	619 ND/MND	2008 Strip mall	2.9	1000	2,900	0
2008052021	905 ND/MND	2008 Strip mall	6	1000	6,000	0
2005022057	713 EIR	2005 Strip mall	18	1000	18,000	0
2003092015	607 EIR	2004 Strip mall	27.2	1000	27,200	0
228914	217 EIR	2002 Strip mall	21	1000	21,000	0
2232148	613 ND/MND	2002 Strip mall	6.5	1000	6,500	0
2003062087	908 ND/MND	2003 Strip mall	22.3	1000	22,300	0
2005072047	101 EIR	2005 Strip mall	4.5	1000	4,500	0
2006028436	105 ND/MND	2006 Strip mall	15	1000	15,000	0
2005122006	106 EIR	2007 Strip mall	77	1000	77,000	1
2007082157	106 ND/MND	2007 Strip mall	5.7	1000	5,700	0
2006122037	218 ND/MND	2007 Strip mall	8	1000	8,000	0
2006062067	901 ND/MND	2006 Strip mall	9.3	1000	9,300	0
2007012080	805 ND/MND	2007 Strip mall	16.3	1000	16,300	0
2004102065	212 ND/MND	2004 Strip mall	3.8	1000	3,800	0
2007042114	202 ND/MND	2007 Strip mall	24	1000	24,000	0
2006012091	102 EIR	2006 Strip mall	50	1000	50,000	1
2004012028	401 EIR	2006 Strip mall	175	1000	175,000	2
2006012024	604 EIR	2006 Strip mall	2.5	1000	2,500	0
2005042121	620 EIR	2006 Strip mall	5.5	1000	5,500	0
2006122100	201 ND/MND	2006 Strip mall	10.7	1000	10,700	0
2003042035	905 EIR	2004 Strip mall	53.6	1000	53,600	1
2003122002	714 EIR	2008 Strip mall	171	1000	171,000	2
1032075	712 ND/MND	2003 Strip mall	1.7	1000	1,700	0
2004082100	805 EIR	2005 Strip mall	13.3	1000	13,300	0
2004122013	215 EIR	2007 Strip mall	40	1000	40,000	0
2005042021	711 EIR	2007 Strip mall	6.5	1000	6,500	0
2006032042	713 EIR	2007 Strip mall	16.7	1000	16,700	0
2007102015	713 EIR	2008 Strip mall	30	1000	30,000	0
2000012080	501 EIR	2003 Strip mall	4	1000	4,000	0
2001102102	501 EIR	2003 Strip mall	24.9	1000	24,900	0
226292	23 ND/MND	2002 Strip mall	35.9	1000	35,900	0
2232147	212 ND/MND	2002 Strip mall	27	1000	27,000	0
2007012034	307 ND/MND	2007 Strip mall	37.3	1000	37,300	0
2005062084	501 EIR	2007 Strip mall	5	1000	5,000	0
2003122009	108 EIR	2004 Strip mall	28	1000	28,000	0
2006042067	501 EIR	2006 Strip mall	2.5	1000	2,500	0
2004082131	708 EIR	2004 Strip mall	25	1000	25,000	0
2002022076	616 EIR	2003 Strip mall	12	1000	12,000	0
2006072101	501 EIR	2007 Strip mall	11.4	1000	11,400	0
2005062167	108 ND/MND	2005 Strip mall	26	1000	26,000	0
2008042050	205 EIR	2008 Strip mall	10	1000	10,000	0
2006062087	212 ND/MND	2006 Strip mall	7.8	1000	7,800	0
2003072022	219 EIR	2003 Strip mall	40	1000	40,000	0
219262	65 EIR	2002 Strip mall	2.9	1000	2,900	0
2005072009	804 ND/MND	2005 Strip mall	13.6	1000	13,600	0
2004032064	803 EIR	2005 Strip mall	111	1000	111,000	2
213293	111 EIR	2002 Strip mall	11	1000	11,000	0
2006122073	214 ND/MND	2006 Strip mall	56	1000	56,000	1
2004072046	203 ND/MND	2004 Strip mall	61	1000	61,000	1
2003102056	212 ND/MND	2003 Hardware/paint store	16.8	1000	16,800	0
2008032104	908 ND/MND	2008 Hardware/paint store	3.4	1000	3,400	0
2005112050	307 ND/MND	2005 Supermarket	53.7	1000	53,700	1
2003102112	102 ND/MND	2004 Supermarket	58.7	1000	58,700	1
2006122073	214 ND/MND	2006 Supermarket	12	1000	12,000	0
2004082071	405 ND/MND	2004 Supermarket	2	1000	2,000	0
2003112097	501 ND/MND	2003 Supermarket	17.1	1000	17,100	0



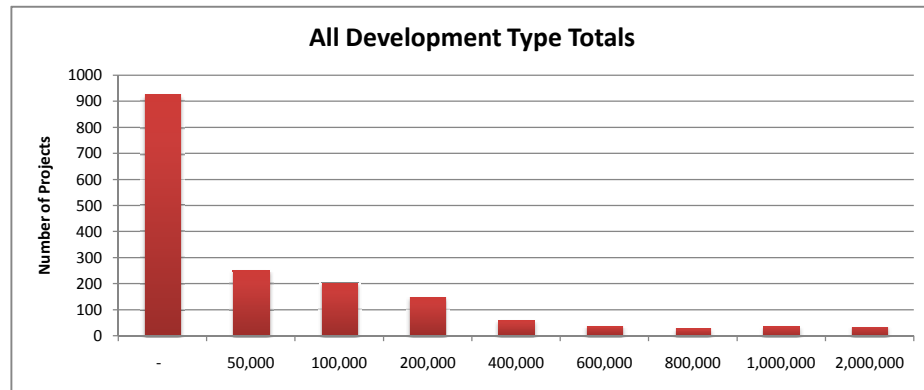




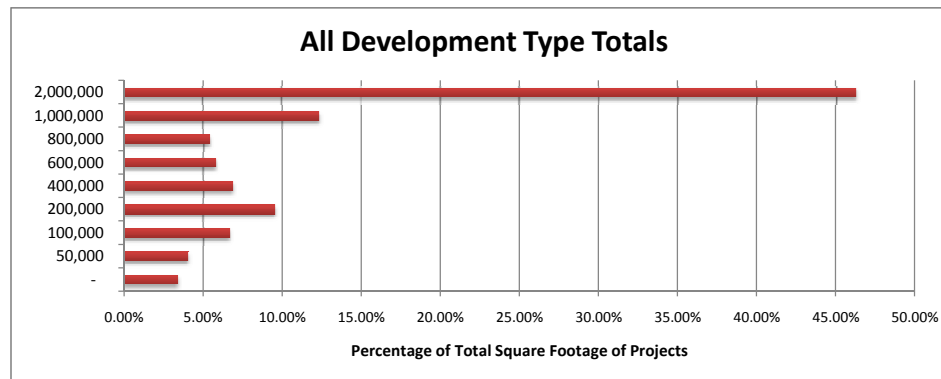
221242	215 ND/MND	2002 Warehouse	192	1000	192,000	2
2006092073	802 ND/MND	2006 Warehouse	25	1000	25,000	0
2005052090	608 ND/MND	2005 Manufacturing	16	1000	16,000	0
2006099009	401 ND/MND	2006 Manufacturing	72.5	1000	72,500	1
2006092073	802 ND/MND	2006 Manufacturing	4	1000	4,000	0
2001022079	802 EIR	2007 General light industry (units in acres)	280		6,098,400	8
19941237	51 EIR	2002 General light industry (units in acres)	1		21,780	0
224231	11 ND/MND	2002 General light industry (units in acres)	1.3		28,314	0
2278381	17 ND/MND	2002 General light industry (units in acres)	13		283,140	3
226217	114 ND/MND	2002 General light industry (units in acres)	21		457,380	4
221222	44 ND/MND	2002 General light industry (units in acres)	13.8		300,564	3
226259	91 ND/MND	2002 General light industry (units in acres)	3.5		76,230	1
225272	98 ND/MND	2002 General light industry (units in acres)	22.8		496,584	4
225273	98 ND/MND	2002 General light industry (units in acres)	27.3		594,594	4
2003102115	201 ND/MND	2003 General light industry (units in acres)	45		980,100	6
2004032018	801 ND/MND	2004 General light industry (units in acres)	1		21,780	0
2005122038	101 ND/MND	2005 General light industry (units in acres)	0.5		10,890	0
2005042016	201 ND/MND	2005 General light industry (units in acres)	10		217,800	3
2005102077	202 ND/MND	2005 General light industry (units in acres)	10		217,800	3
2005022013	212 ND/MND	2005 General light industry (units in acres)	5.3		115,434	2
2005038298	212 ND/MND	2005 General light industry (units in acres)	1		21,780	0
2005092029	801 ND/MND	2005 General light industry (units in acres)	1.5		32,670	0
2006012092	111 EIR	2006 General light industry (units in acres)	60		1,306,800	7
2001112092	305 EIR	2006 General light industry (units in acres)	16.8		365,904	3
2006072064	101 ND/MND	2006 General light industry (units in acres)	44		958,320	6
2006012066	801 ND/MND	2006 General light industry (units in acres)	2		43,560	0
2006052081	801 ND/MND	2006 General light industry (units in acres)	2		43,560	0
2006042069	803 ND/MND	2006 General light industry (units in acres)	30		653,400	5
2006032126	101 ND/MND	2007 General light industry (units in acres)	4		87,120	1
2007032058	201 ND/MND	2007 General light industry (units in acres)	0.1		2,178	0
2006072044	301 ND/MND	2007 General light industry (units in acres)	19.3		420,354	4
2006042096	608 ND/MND	2006 General light industry (units in acres)	1		21,780	0
2005022140	201 ND/MND	2005 General light industry (units in acres)	6.7		145,926	2
2182112	81 EIR	2002 General light industry (units in employees)	1	450	450	0
1992113035	801 EIR	2004 General light industry (units in employees)	10	450	4,500	0
2004032034	801 ND/MND	2004 General light industry (units in employees)	25	450	11,250	0
2004072037	801 EIR	2005 General light industry (units in employees)	10	450	4,500	0
2005102020	401 ND/MND	2005 General light industry (units in employees)	30	450	13,500	0
2006022037	801 ND/MND	2006 General light industry (units in employees)	10	450	4,500	0
2006012017	801 EIR	2007 General light industry (units in employees)	10	450	4,500	0
2007102072	201 ND/MND	2007 General light industry (units in sqft)	160	1000	160,000	2
22825	111 ND/MND	2002 General light industry (units in sqft)	61	1000	61,000	1
221126	31 ND/MND	2002 General light industry (units in sqft)	28	1000	28,000	0
2003012029	201 ND/MND	2003 General light industry (units in sqft)	98.4	1000	98,400	1
2003082046	201 ND/MND	2003 General light industry (units in sqft)	28.1	1000	28,100	0
1998122015	220 ND/MND	2003 General light industry (units in sqft)	2.9	1000	2,900	0
1992123077	301 ND/MND	2003 General light industry (units in sqft)	30	1000	30,000	0
2003122107	301 ND/MND	2003 General light industry (units in sqft)	0.2	1000	200	0
2003022075	901 ND/MND	2003 General light industry (units in sqft)	14	1000	14,000	0
2003062082	901 ND/MND	2003 General light industry (units in sqft)	200	1000	200,000	3
2004072062	301 ND/MND	2004 General light industry (units in sqft)	12.4	1000	12,400	0
2004032130	901 ND/MND	2004 General light industry (units in sqft)	81	1000	81,000	1
2004072096	905 ND/MND	2004 General light industry (units in sqft)	35.7	1000	35,700	0
2003062137	405 EIR	2005 General light industry (units in sqft)	12	1000	12,000	0
2005082100	101 ND/MND	2005 General light industry (units in sqft)	1	1000	1,000	0
2005062145	107 ND/MND	2005 General light industry (units in sqft)	2.3	1000	2,300	0
2005112103	201 ND/MND	2005 General light industry (units in sqft)	3	1000	3,000	0
2005122093	301 ND/MND	2005 General light industry (units in sqft)	1.6	1000	1,600	0
2005102084	401 ND/MND	2005 General light industry (units in sqft)	2	1000	2,000	0
2005012118	612 ND/MND	2005 General light industry (units in sqft)	96.5	1000	96,500	1
2006042102	101 ND/MND	2006 General light industry (units in sqft)	0.7	1000	700	0
2006082146	104 ND/MND	2006 General light industry (units in sqft)	66.8	1000	66,800	1
2006042105	201 ND/MND	2006 General light industry (units in sqft)	20.1	1000	20,100	0
2006042093	608 ND/MND	2006 General light industry (units in sqft)	38.9	1000	38,900	0
2000102046	104 EIR	2007 General light industry (units in sqft)	660	1000	660,000	5
2006032115	111 EIR	2007 General light industry (units in sqft)	300.7	1000	300,700	3
2007082152	218 ND/MND	2007 General light industry (units in sqft)	45.1	1000	45,100	0
2007032019	402 ND/MND	2007 General light industry (units in sqft)	4.8	1000	4,800	0
2008042109	616 ND/MND	2008 General light industry (units in sqft)	2.9	1000	2,900	0
2003122009	108 EIR	2004 General light industry (units in sqft)	390	1000	390,000	3
2007022038	901 ND/MND	2007 General light industry (units in sqft)	1.8	1000	1,800	0
2005042146	107 EIR	2006 General light industry (units in sqft)	88	1000	88,000	1
2004092011	212 EIR	2008 General light industry (units in sqft)	166.4	1000	166,400	2
2006062067	901 ND/MND	2006 General light industry (units in sqft)	6.8	1000	6,800	0
214261	23 EIR	2002 Industrial park (units in acres)	28.8		627,264	5
22229	25 ND/MND	2002 Industrial park (units in acres)	7		152,460	2
2006042023	214 ND/MND	2006 Industrial park (units in acres)	11.7		254,826	3
2000082091	217 EIR	2004 Industrial park (units in sqft)	250	1000	250,000	3
2005022012	215 ND/MND	2005 Industrial park (units in sqft)	326	1000	326,000	3
2008052135	311 ND/MND	2008 Industrial park (units in sqft)	57.1	1000	57,100	1
22426	81 ND/MND	2002 General heavy industry (units in acres)	1.7		37,026	0
1997032020	110 ND/MND	2003 General heavy industry (units in acres)	7		152,460	2
2002112026	101 EIR	2004 General heavy industry (units in acres)	40		871,200	6
2000072063	901 EIR	2004 General heavy industry (units in acres)	114		2,482,920	8
2004062049	905 ND/MND	2004 General heavy industry (units in acres)	1		21,780	0
2001102104	701 EIR	2005 General heavy industry (units in acres)	5.6		121,968	2
2005092028	201 EIR	2006 General heavy industry (units in acres)	25		544,500	4
2006102025	501 EIR	2006 General heavy industry (units in acres)	1		21,780	0
1987070103	215 ND/MND	2006 General heavy industry (units in acres)	15.6		339,768	3
2006112036	501 ND/MND	2006 General heavy industry (units in acres)	1		21,780	0
2007082142	801 ND/MND	2007 General heavy industry (units in acres)	50		1,089,000	7
2007042059	901 ND/MND	2007 General heavy industry (units in acres)	17.5		381,150	3
2007082015	901 ND/MND	2007 General heavy industry (units in acres)	1		21,780	0
2003032112	801 EIR	2008 General heavy industry (units in acres)	260		5,662,800	8
2004092099	901 EIR	2008 General heavy industry (units in acres)	70		1,524,600	7
2006092018	613 ND/MND	2008 General heavy industry (units in acres)	1		21,780	0
221219	215 ND/MND	2002 General heavy industry (units in sqft)	44	1000	44,000	0
225282	215 ND/MND	2002 General heavy industry (units in sqft)	4.5	1000	4,500	0
2003022096	616 ND/MND	2003 General heavy industry (units in sqft)	28	1000	28,000	0
1989082209	215 EIR	2006 General heavy industry (units in sqft)	118	1000	118,000	2
2006112050	111 EIR	2007 General heavy industry (units in sqft)	22.8	1000	22,800	0
2007022071	713 EIR	2007 General heavy industry (units in sqft)	200	1000	200,000	3
2007092028	215 ND/MND	2007 General heavy industry (units in sqft)	352	1000	352,000	3
					<b>Total</b>	<b>441,531,155</b>
					<b>Average Absorption (2002-2008)</b>	<b>73,588,526</b>
					Average Project Size	256,257
					Standard Deviation	1,453,300

All Development Type Totals		Categories				
Size	Size Category	Number of Qualifying Projects	Percentage of Total Projects	Project Square Footage	Percentage of Total Square Footage	
-	0	927	53.8%	14,904,959	3.38%	
50,000	1	251	14.6%	17,793,314	4.03%	
100,000	2	200	11.6%	29,102,336	6.59%	
200,000	3	149	8.6%	41,906,440	9.49%	
400,000	4	61	3.5%	30,119,436	6.82%	
600,000	5	37	2.1%	25,508,464	5.78%	
800,000	6	26	1.5%	23,619,620	5.35%	
1,000,000	7	38	2.2%	54,357,066	12.31%	
2,000,000	8	34	2.0%	204,219,520	46.25%	
		1723	100%		100%	

Size Category  
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8



Percentile	
0.10	3,600
0.20	7,200
0.30	14,000
0.40	24,640
0.50	42,600
0.60	65,060
0.70	109,880
0.80	199,220
0.90	460,000



All Development Type Totals	Projections by Building Size (Square Feet)										
	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
	1,288,217	1,465,900	1,482,390	1,420,057	1,438,691	1,464,414	1,475,149	1,491,994	1,510,358	1,528,790	1,561,096
	1,537,854	1,749,969	1,769,655	1,695,243	1,717,488	1,748,196	1,761,011	1,781,120	1,803,043	1,825,046	1,863,612
	2,515,279	2,862,209	2,894,407	2,772,700	2,809,084	2,859,309	2,880,269	2,913,159	2,949,015	2,985,003	3,048,082
	3,621,923	4,121,490	4,167,854	3,992,600	4,044,991	4,117,314	4,147,496	4,194,857	4,246,489	4,298,310	4,389,141
	2,603,186	2,962,240	2,995,564	2,869,603	2,907,258	2,959,239	2,980,932	3,014,971	3,052,081	3,089,327	3,154,609
	2,204,665	2,508,752	2,536,974	2,430,297	2,462,187	2,506,210	2,524,582	2,553,411	2,584,839	2,616,383	2,671,671
	2,041,415	2,322,985	2,349,117	2,250,339	2,279,868	2,320,631	2,337,642	2,364,336	2,393,438	2,422,646	2,473,840
	4,698,015	5,346,006	5,406,146	5,178,823	5,246,780	5,340,590	5,379,739	5,441,171	5,508,143	5,575,361	5,693,178
	17,650,444	20,084,949	20,310,892	19,456,839	19,712,153	20,064,597	20,211,681	20,442,481	20,694,095	20,946,634	21,389,271
<b>Total</b>	<b>38,161,000</b>	<b>43,424,500</b>	<b>43,913,000</b>	<b>42,066,500</b>	<b>42,618,500</b>	<b>43,380,500</b>	<b>43,698,500</b>	<b>44,197,500</b>	<b>44,741,500</b>	<b>45,287,500</b>	<b>46,244,500</b>
Check	38,161,000	43,424,500	43,913,000	42,066,500	42,618,500	43,380,500	43,698,500	44,197,500	44,741,500	45,287,500	46,244,500

All Development Type Totals	Projections by Building Size (Number of Projects)										
	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
	80	91	92	88	89	91	92	93	94	95	97
	22	25	25	24	24	25	25	25	25	26	26
	17	20	20	19	19	20	20	20	20	21	21
	13	15	15	14	14	15	15	15	15	15	16
	5	6	6	6	6	6	6	6	6	6	6
	3	4	4	4	4	4	4	4	4	4	4
	2	3	3	2	3	3	3	3	3	3	3
	3	4	4	4	4	4	4	4	4	4	4
	3	3	3	3	3	3	3	3	3	3	4
	<b>148</b>	<b>171</b>	<b>172</b>	<b>164</b>	<b>166</b>	<b>171</b>	<b>172</b>	<b>173</b>	<b>174</b>	<b>177</b>	<b>181</b>

All Development Type Totals	Projections by Building Size (Average Size of Project)										
	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
	16,103	16,109	16,113	16,137	16,165	16,092	16,034	16,043	16,068	16,093	16,094
	69,902	69,999	70,786	70,635	71,562	69,928	70,440	71,245	72,122	70,194	71,677
	147,958	143,110	144,720	145,932	147,847	142,965	144,013	145,658	147,451	142,143	145,147
	278,609	274,766	277,857	285,186	288,928	274,488	276,500	279,657	283,099	286,554	274,321
	520,637	493,707	499,261	478,267	484,543	493,206	496,822	502,495	508,680	514,888	525,768
	734,888	627,188	634,244	607,574	615,547	626,553	631,146	638,353	646,210	654,096	667,918
	1,020,707	774,328	783,039	1,125,169	759,956	773,544	779,214	788,112	797,813	807,549	824,613
	1,566,005	1,336,502	1,351,536	1,294,706	1,311,695	1,335,147	1,344,935	1,360,293	1,377,036	1,393,840	1,423,294
	5,883,481	6,694,983	6,770,297	6,485,613	6,570,718	6,688,199	6,737,227	6,814,160	6,898,032	6,982,211	5,347,318







271 High Turnover (sit-down) Restaurant	8,000	1.288	1.817	2.377	0.449	1,291.856
272 High Turnover (sit-down) Restaurant	8,000	1.288	1.817	2.377	0.449	1,291.856
273 High Turnover (sit-down) Restaurant	8,000	1.288	1.817	2.377	0.449	1,291.856
274 High Turnover (sit-down) Restaurant	8,000	1.288	1.817	2.377	0.449	1,291.856
275 High Turnover (sit-down) Restaurant	8,000	1.288	1.817	2.377	0.449	1,291.856
276 High Turnover (sit-down) Restaurant	8,000	1.288	1.817	2.377	0.449	1,291.856
277 High Turnover (sit-down) Restaurant	8,000	1.288	1.817	2.377	0.449	1,291.856
278 High Turnover (sit-down) Restaurant	8,000	1.288	1.817	2.377	0.449	1,291.856
279 High Turnover (sit-down) Restaurant	8,000	1.288	1.817	2.377	0.449	1,291.856
280 High Turnover (sit-down) Restaurant	8,000	1.288	1.817	2.377	0.449	1,291.856
281 High Turnover (sit-down) Restaurant	8,000	1.288	1.817	2.377	0.449	1,291.856
282 High Turnover (sit-down) Restaurant	8,000	1.288	1.817	2.377	0.449	1,291.856
283 High Turnover (sit-down) Restaurant	8,000	1.288	1.817	2.377	0.449	1,291.856
284 High Turnover (sit-down) Restaurant	8,000	1.288	1.817	2.377	0.449	1,291.856
285 High Turnover (sit-down) Restaurant	8,000	1.288	1.817	2.377	0.449	1,291.856
286 Hotel	26,766	0.643	0.857	1.020	0.194	640.794
287 Hotel	60,457	1.453	1.935	2.303	0.438	1,447.350
288 Hotel	78,376	1.884	2.509	2.986	0.568	1,876.336
289 Strip Mall	14,180	0.785	1.102	1.411	0.271	787.197
290 Strip Mall	14,180	0.785	1.102	1.411	0.271	787.197
291 Strip Mall	14,180	0.785	1.102	1.411	0.271	787.197
292 Strip Mall	14,180	0.785	1.102	1.411	0.271	787.197
293 Strip Mall	14,180	0.785	1.102	1.411	0.271	787.197
294 Strip Mall	14,180	0.785	1.102	1.411	0.271	787.197
295 Strip Mall	14,180	0.785	1.102	1.411	0.271	787.197
296 Strip Mall	14,180	0.785	1.102	1.411	0.271	787.197
297 Strip Mall	14,180	0.785	1.102	1.411	0.271	787.197
298 Strip Mall	14,180	0.785	1.102	1.411	0.271	787.197
299 Strip Mall	14,180	0.785	1.102	1.411	0.271	787.197
300 Strip Mall	14,180	0.785	1.102	1.411	0.271	787.197
301 Strip Mall	14,180	0.785	1.102	1.411	0.271	787.197
302 Strip Mall	14,180	0.785	1.102	1.411	0.271	787.197
303 Strip Mall	14,180	0.785	1.102	1.411	0.271	787.197
304 Strip Mall	14,180	0.785	1.102	1.411	0.271	787.197
305 Strip Mall	14,180	0.785	1.102	1.411	0.271	787.197
306 Strip Mall	52,275	2.893	4.063	5.202	1.000	2,902.010
307 Strip Mall	52,275	2.893	4.063	5.202	1.000	2,902.010
308 Strip Mall	104,513	5.785	8.123	10.400	2.000	5,801.977
309 Strip Mall	167,074	9.247	12.985	16.625	3.197	9,274.991
310 Supermarket	22,216	2.833	4.056	5.268	1.007	2,871.400
311 Supermarket	22,216	2.833	4.056	5.268	1.007	2,871.400
312 Supermarket	22,216	2.833	4.056	5.268	1.007	2,871.400
313 Supermarket	22,216	2.833	4.056	5.268	1.007	2,871.400
314 Supermarket	22,216	2.833	4.056	5.268	1.007	2,871.400
315 Supermarket	65,306	8.328	11.924	15.485	2.959	8,440.740
316 Supermarket	65,306	8.328	11.924	15.485	2.959	8,440.740
317 Supermarket	65,306	8.328	11.924	15.485	2.959	8,440.740
318 Convenience Market (24 Hour)	10,000	9.059	13.057	17.123	3.264	9,196.556
319 General Office Building	13,889	0.240	0.312	0.389	0.075	229.995
320 General Office Building	13,889	0.240	0.312	0.389	0.075	229.995
321 General Office Building	13,889	0.240	0.312	0.389	0.075	229.995
322 General Office Building	13,889	0.240	0.312	0.389	0.075	229.995
323 General Office Building	13,889	0.240	0.312	0.389	0.075	229.995
324 General Office Building	13,889	0.240	0.312	0.389	0.075	229.995
325 General Office Building	13,889	0.240	0.312	0.389	0.075	229.995
326 General Office Building	13,889	0.240	0.312	0.389	0.075	229.995
327 General Office Building	68,656	1.189	1.544	1.923	0.370	1,136.897
328 General Office Building	68,656	1.189	1.544	1.923	0.370	1,136.897
329 General Office Building	68,656	1.189	1.544	1.923	0.370	1,136.897
330 General Office Building	125,467	2.172	2.822	3.515	0.676	2,077.668
331 General Office Building	125,467	2.172	2.822	3.515	0.676	2,077.668
332 General Office Building	212,759	3.683	4.785	5.960	1.146	3,523.163
333 General Office Building	212,759	3.683	4.785	5.960	1.146	3,523.163
334 General Office Building	376,831	6.523	8.475	10.556	2.029	6,240.114
335 Government Office Building	18,994	1.691	2.387	3.108	0.594	1,696.045
336 Government Office Building	18,994	1.691	2.387	3.108	0.594	1,696.045
337 Government Office Building	18,994	1.691	2.387	3.108	0.594	1,696.045
338 Government Office Building	18,994	1.691	2.387	3.108	0.594	1,696.045
339 Government Office Building	18,994	1.691	2.387	3.108	0.594	1,696.045
340 Government Office Building	18,994	1.691	2.387	3.108	0.594	1,696.045
341 Government Office Building	70,203	6.248	8.824	11.486	2.195	6,268.769
342 Government Office Building	70,203	6.248	8.824	11.486	2.195	6,268.769
343 Government Office Building	70,203	6.248	8.824	11.486	2.195	6,268.769
344 Government Office Building	135,289	12.041	17.005	22.135	4.230	12,080.696
345 Government Office Building	239,141	21.285	30.058	39.127	7.477	21,354.132
346 Pharmacy/Drugstore without drive-through	13,500	1.552	2.210	2.868	0.550	1,560.154
347 Pharmacy/Drugstore without drive-through	13,500	1.552	2.210	2.868	0.550	1,560.154
348 Pharmacy/Drugstore without drive-through	13,500	1.552	2.210	2.868	0.550	1,560.154
349 Pharmacy/Drugstore without drive-through	13,500	1.552	2.210	2.868	0.550	1,560.154
350 Hospital	30,528	0.772	1.042	1.322	0.253	756.157
351 Hospital	51,913	1.314	1.772	2.249	0.430	1,285.864
352 Hospital	111,062	2.810	3.791	4.811	0.920	2,750.932
353 Warehouse	25,912	0.220	0.245	0.297	0.057	180.486
354 Warehouse	25,912	0.220	0.245	0.297	0.057	180.486
355 Warehouse	25,912	0.220	0.245	0.297	0.057	180.486
356 Warehouse	25,912	0.220	0.245	0.297	0.057	180.486
357 Warehouse	25,912	0.220	0.245	0.297	0.057	180.486
358 Warehouse	87,635	0.746	0.827	1.004	0.193	610.405
359 Warehouse	87,635	0.746	0.827	1.004	0.193	610.405
360 Warehouse	241,594	2.055	2.281	2.767	0.531	1,682.776
361 Warehouse	1,256,768	10.692	11.867	14.393	2.761	8,753.766
362 General Light Industry	17,310	0.210	0.252	0.319	0.061	184.708
363 General Light Industry	17,310	0.210	0.252	0.319	0.061	184.708
364 General Light Industry	17,310	0.210	0.252	0.319	0.061	184.708
365 General Light Industry	63,132	0.767	0.919	1.163	0.221	673.650
366 General Light Industry	275,414	3.346	4.008	5.075	0.966	2,938.780













**2015 Summary by Urbemis Category**

	1	2	3	4	5	6	7	8	9	10	11
	Single Family Housing	Apartments Low Rise	Apartments Mid Rise	Apartments High Rise	Condo/Townhouse General + High Rise	Congregate Care (Assisted Living) Facility	Elementary School	University/College (4 years)	Place of Worship	High Turnover (sit-down) Restaurant	Hotel
<b>Projects</b>											
-	33	3	1	-	9	16	24	1	6	148	2
50,000	7	1	3	1	2	2	5	-	1	-	1
100,000	4	1	4	2	2	12	2	-	1	-	1
200,000	5	-	3	2	2	-	1	-	-	-	-
400,000	1	-	2	1	-	-	-	-	-	-	-
600,000	1	-	-	1	-	-	-	-	-	-	-
800,000	1	-	-	-	-	-	-	-	-	-	-
1,000,000	1	-	-	1	-	-	-	-	-	-	-
2,000,000	2	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>55</b>	<b>5</b>	<b>13</b>	<b>8</b>	<b>15</b>	<b>30</b>	<b>32</b>	<b>1</b>	<b>8</b>	<b>148</b>	<b>4</b>
<b>Average Project Size</b>											
-	13,524	18,704	34,976	-	21,018	6,063	5,820	15,638	22,471	8,020	14,288
50,000	68,459	61,516	67,765	90,804	79,786	20,406	20,646	-	83,920	-	64,545
100,000	152,278	87,927	136,045	125,275	161,234	50,681	39,574	-	94,256	-	83,676
200,000	265,876	-	245,430	257,108	326,624	-	41,945	-	-	-	-
400,000	705,717	-	368,531	350,771	-	-	-	-	-	-	-
600,000	927,493	-	-	571,726	-	-	-	-	-	-	-
800,000	1,089,595	-	-	-	-	-	-	-	-	-	-
1,000,000	1,831,881	-	-	1,673,475	-	-	-	-	-	-	-
2,000,000	6,109,665	-	-	-	-	-	-	-	-	-	-

**2015 Summary of Pollutants by Urbemis Category**

							8	9	10	11	12
	Avg Size (sf)	ROG (tons/yr)	Nox (tons/yr)	PM <sup>10</sup> (tons/yr)	PM <sup>2.5</sup> (tons/yr)	CO <sub>2</sub> (tons/yr)	(tons/sf/yr)	Nox (tons/sf/yr)	(tons/sf/yr)	(tons/sf/yr)	CO <sub>2</sub> (tons/sf/yr)
Single Family Housing	355,849	5.52	2.96	5.74	1.61	3,431.84	0.0000155	0.0000083	0.0000161	0.0000045	0.0096441
Apartments Low Rise	173,563	4.76	2.16	4.45	1.38	2,507.64	0.0000274	0.0000124	0.0000256	0.0000080	0.0144480
Apartments Mid Rise	298,664	7.84	3.20	6.60	2.16	3,734.18	0.0000263	0.0000107	0.0000221	0.0000072	0.0125030
Apartments High Rise	456,774	10.01	3.90	8.01	2.70	4,550.36	0.0000219	0.0000085	0.0000175	0.0000059	0.0099620
Condo/Townhouse General + High Rise	115,870	3.18	1.44	2.97	0.92	1,671.84	0.0000274	0.0000124	0.0000256	0.0000079	0.0144286
Congregate Care (Assisted Living) Facility	63,183	1.41	0.32	0.65	0.32	386.13	0.0000223	0.0000051	0.0000103	0.0000051	0.0061113
Elementary School	61,124	0.88	1.15	2.16	0.41	1,289.85	0.0000144	0.0000188	0.0000353	0.0000067	0.0211023
University/College (4 years)	120,866	3.95	3.73	7.30	1.39	4,171.57	0.0000327	0.0000309	0.0000604	0.0000115	0.0345140
Place of Worship	37,994	0.36	0.46	0.80	0.15	511.44	0.0000095	0.0000121	0.0000211	0.0000039	0.0134610
High Turnover (sit-down) Restaurant	8,011	0.83	1.15	2.38	0.45	1,290.72	0.0001036	0.0001436	0.0002971	0.0000562	0.1611162
Hotel	95,283	1.55	2.04	3.64	0.69	2,288.59	0.0000163	0.0000214	0.0000382	0.0000072	0.0240190
Free-Standing Discount Store	244,293	11.21	15.70	31.69	6.02	17,492.28	0.0000459	0.0000643	0.0001297	0.0000246	0.0716037
Strip Mall	33,967	1.22	1.69	3.38	0.64	1,881.48	0.0000359	0.0000498	0.0000995	0.0000188	0.0553915
Supermarket	37,956	3.11	4.40	8.99	1.71	4,894.60	0.0000819	0.0001159	0.0002369	0.0000451	0.1289561
Convenience Market (24 Hour)	7,230	4.18	5.96	12.35	2.35	6,633.86	0.0005781	0.0008243	0.0017082	0.0003250	0.9175463
General Office Building	146,725	1.71	2.15	4.10	0.78	2,424.63	0.0000117	0.0000147	0.0000279	0.0000053	0.0165249
Office Park	1,407,436	17.26	21.93	42.21	8.03	24,852.96	0.0000123	0.0000156	0.0000300	0.0000057	0.0176583
Government Office Building	64,603	3.70	5.16	10.55	2.00	5,755.72	0.0000573	0.0000799	0.0001633	0.0000310	0.0890937
Pharmacy/Drugstore without drive-through	13,743	1.00	1.40	2.87	0.54	1,555.20	0.0000728	0.0001019	0.0002088	0.0000393	0.1131642
Hospital	220,913	3.72	4.88	9.59	1.82	5,482.42	0.0000168	0.0000221	0.0000434	0.0000082	0.0248171
Warehouse	213,930	1.29	1.33	2.46	0.47	1,492.80	0.0000060	0.0000062	0.0000115	0.0000022	0.0069780
General Light Industry	245,308	2.05	2.31	4.51	0.86	2,614.96	0.0000084	0.0000094	0.0000184	0.0000035	0.0106599
General Heavy Industry	612,417	2.18	1.42	2.67	0.51	1,624.85	0.0000036	0.0000023	0.0000044	0.0000008	0.0026532

Single Family Housing	198 units
Apartments Low Rise	204 units
Apartments Mid Rise	351 units
Apartments High Rise	537 units
Condo/Townhouse General + High Rise	136 units
Congregate Care (Assisted Living) Facility	74 units
University/College (4 years)	1,314 students
Hotel	191 rooms

**2015 Summary of Pollutant Load by Urbemis Category**

	ROG (tons/yr)	Nox (tons/yr)	PM <sup>10</sup> (tons/yr)	PM <sup>2.5</sup> (tons/yr)	CO <sub>2</sub> (tons/yr)
Single Family Housing	304.63	163.35	316.77	88.85	189,390.41
Apartments Low Rise	5.64	2.56	5.27	1.63	2,969.86
Apartments Mid Rise	59.22	24.17	49.85	16.31	28,204.23
Apartments High Rise	75.64	29.47	60.53	20.40	34,384.10
Condo/Townhouse General + High Rise	36.35	16.46	33.95	10.52	19,109.90
Congregate Care (Assisted Living) Facility	16.65	3.78	7.67	3.78	4,559.00
Elementary School	5.24	6.85	12.86	2.44	7,681.23
University/College (4 years)	0.51	0.48	0.94	0.18	539.72
Place of Worship	2.97	3.79	6.59	1.24	4,213.28
High Turnover (sit-down) Restaurant	122.98	170.39	352.64	66.68	191,244.96
Hotel	2.88	3.79	6.75	1.28	4,246.47
Free-Standing Discount Store	-	-	-	-	-
Strip Mall	24.26	33.60	67.21	12.73	37,410.95
Supermarket	26.79	37.91	77.45	14.73	42,168.64
Convenience Market (24 Hour)	6.36	9.07	18.79	3.58	10,093.01
General Office Building	17.44	21.93	41.82	7.96	24,730.37
Office Park	-	-	-	-	-
Government Office Building	42.55	59.35	121.34	23.00	66,196.65
Pharmacy/Drugstore without drive-through	4.07	5.70	11.69	2.20	6,337.20
Hospital	3.52	4.62	9.07	1.72	5,187.14
Warehouse	16.04	16.54	30.59	5.84	18,561.40
General Light Industry	3.50	3.95	7.71	1.47	4,468.70
General Heavy Industry	-	-	-	-	-

- Urbemis Code**
- Single Family Housing
- Urbemis Code**
- Apartments Low Rise
- Urbemis Code**
- Apartments Mid Rise
- Urbemis Code**
- Apartments High Rise
- Urbemis Code**
- Condo/Townhouse General + High Rise
- Urbemis Code**
- Congregate Care (Assisted Living) Facility
- Urbemis Code**
- Elementary School
- Urbemis Code**
- University/College (4 years)
- Urbemis Code**
- Place of Worship
- Urbemis Code**
- High Turnover (sit-down) Restaurant
- Urbemis Code**
- Hotel
- Urbemis Code**
- Free-Standing Discount Store
- Urbemis Code**
- Strip Mall
- Urbemis Code**
- Supermarket
- Urbemis Code**
- Convenience Market (24 Hour)
- Urbemis Code**
- General Office Building
- Urbemis Code**
- Office Park
- Urbemis Code**
- Government Office Building
- Urbemis Code**
- Pharmacy/Drugstore without drive-through
- Urbemis Code**
- Hospital
- Urbemis Code**
- Warehouse
- Urbemis Code**
- General Light Industry
- Urbemis Code**
- General Heavy Industry









419 Warehouse	25,489	0.124	0.112	0.292	0.055	177.220
420 Warehouse	25,489	0.124	0.112	0.292	0.055	177.220
421 Warehouse	25,489	0.124	0.112	0.292	0.055	177.220
422 Warehouse	68,963	0.335	0.303	0.790	0.148	479.488
423 Warehouse	68,963	0.335	0.303	0.790	0.148	479.488
424 Warehouse	68,963	0.335	0.303	0.790	0.148	479.488
425 Warehouse	142,590	0.693	0.627	1.633	0.307	991.395
426 Warehouse	142,590	0.693	0.627	1.633	0.307	991.395
427 Warehouse	341,487	1.660	1.500	3.911	0.734	2,374.281
428 Warehouse	422,010	2.052	1.854	4.833	0.907	2,934.137
429 Warehouse	1,483,499	7.212	6.518	16.990	3.190	10,314.433
430 General Light Industry	15,036	0.099	0.097	0.276	0.052	159.680
431 General Light Industry	15,036	0.099	0.097	0.276	0.052	159.680
432 General Light Industry	15,036	0.099	0.097	0.276	0.052	159.680
433 General Light Industry	15,036	0.099	0.097	0.276	0.052	159.680
434 General Light Industry	73,119	0.480	0.471	1.344	0.253	776.495
435 General Light Industry	76,001	0.499	0.490	1.397	0.263	807.101
436 General Light Industry	318,980	2.094	2.055	5.864	1.105	3,387.436

2020 Summary by Urbemis Category												
	1	2	3	4	5	6	7	8	9	10	11	
	Single Family Housing	Apartments Low Rise	Apartments Mid Rise	Apartments High Rise	Condo/Townhouse General + High Rise	Congregate Care (Assisted Living) Facility	Elementary School	University/College (4 years)	Place of Worship	High Turnover (sit-down) Restaurant	Hotel	
<b>Projects</b>	-	35	3	1	-	10	17	26	1	7	160	2
50,000	7	1	3	1	2	2	6	-	1	-	1	
100,000	4	1	4	2	2	13	2	1	-	-	1	
200,000	5	-	3	2	2	-	1	-	-	-	-	
400,000	2	-	2	1	-	-	-	-	-	-	-	
600,000	1	-	-	1	-	-	-	-	-	-	-	
800,000	1	-	-	-	-	-	-	-	-	-	-	
1,000,000	1	-	-	1	-	-	-	-	-	-	-	
2,000,000	2	-	-	-	-	-	-	-	-	-	-	
<b>Total</b>	<b>58</b>	<b>5</b>	<b>13</b>	<b>8</b>	<b>16</b>	<b>32</b>	<b>35</b>	<b>1</b>	<b>9</b>	<b>160</b>	<b>4</b>	
<b>Average Project Size</b>												
-	13,581	19,196	36,229	-	19,977	5,997	5,859	16,573	21,230	8,013	15,336	
50,000	72,914	63,135	70,194	94,057	84,260	21,446	18,765	-	92,499	-	69,278	
100,000	162,188	90,241	140,920	129,764	170,275	49,166	43,162	-	103,892	-	89,812	
200,000	283,179	-	254,225	266,322	344,939	-	45,748	-	-	-	-	
400,000	375,822	-	381,737	363,340	-	-	-	-	-	-	-	
600,000	987,852	-	-	592,213	-	-	-	-	-	-	-	
800,000	1,160,504	-	-	-	-	-	-	-	-	-	-	
1,000,000	1,951,096	-	-	1,733,443	-	-	-	-	-	-	-	
2,000,000	6,507,269	-	-	-	-	-	-	-	-	-	-	

2020 Summary of Pollutants by Urbemis Category							8	9	10	11	12
	Avg Size (sf)	ROG (tons/yr)	Nox (tons/yr)	PM <sup>10</sup> (tons/yr)	PM <sup>2.5</sup> (tons/yr)	CO <sub>2</sub> (tons/yr)	(tons/sf/yr)	Nox (tons/sf/yr)	(tons/sf/yr)	(tons/sf/yr)	CO <sub>2</sub> (tons/sf/yr)
Single Family Housing	355,849	5.04	2.14	5.73	1.60	3,420.69	0.0000142	0.0000060	0.0000161	0.0000045	0.0096127
Apartments Low Rise	173,563	4.40	1.56	4.45	1.37	2,499.36	0.0000254	0.0000090	0.0000256	0.0000079	0.0144003
Apartments Mid Rise	298,664	7.31	2.33	6.59	2.15	3,722.29	0.0000245	0.0000078	0.0000221	0.0000072	0.0124631
Apartments High Rise	456,774	10.99	3.36	9.40	3.17	5,330.15	0.0000241	0.0000074	0.0000206	0.0000069	0.0116691
Condo/Townhouse General + High Rise	115,870	2.94	1.04	2.97	0.92	1,666.32	0.0000254	0.0000090	0.0000256	0.0000079	0.0143809
Congregate Care (Assisted Living) Facility	63,183	1.38	0.26	0.65	0.32	385.25	0.0000218	0.0000041	0.0000103	0.0000051	0.0060973
Elementary School	61,124	0.68	0.80	2.16	0.41	1,285.12	0.0000111	0.0000131	0.0000353	0.0000067	0.0210249
University/College (4 years)	120,866	3.09	2.54	7.30	1.38	4,155.55	0.0000256	0.0000210	0.0000604	0.0000114	0.0343815
Place of Worship	37,994	0.28	0.33	0.80	0.15	509.67	0.0000074	0.0000087	0.0000211	0.0000039	0.0134144
High Turnover (sit-down) Restaurant	8,011	0.62	0.77	2.38	0.45	1,287.12	0.0000774	0.0000961	0.0002971	0.0000562	0.1606669
Hotel	95,283	1.20	1.44	3.64	0.69	2,280.59	0.0000126	0.0000151	0.0000382	0.0000072	0.0239350
Free-Standing Discount Store	244,293	8.46	10.56	31.65	5.98	17,422.82	0.0000346	0.0000432	0.0001296	0.0000245	0.0713193
Strip Mall	33,967	0.93	1.14	3.37	0.64	1,874.08	0.0000274	0.0000336	0.0000992	0.0000188	0.0551736
Supermarket	37,956	2.34	2.94	8.97	1.70	4,874.89	0.0000617	0.0000775	0.0002363	0.0000448	0.1284368
Convenience Market (24 Hour)	7,230	3.13	3.96	12.34	2.33	6,606.78	0.0004329	0.0005477	0.0017068	0.0003223	0.9138008
General Office Building	146,725	1.33	1.48	4.10	0.77	2,415.64	0.0000091	0.0000101	0.0000279	0.0000052	0.0164637
Office Park	1,407,436	13.37	15.12	42.16	7.98	24,760.30	0.0000095	0.0000107	0.0000300	0.0000057	0.0175925
Government Office Building	64,603	2.79	3.45	10.54	1.99	5,732.59	0.0000432	0.0000534	0.0001632	0.0000308	0.0887357
Pharmacy/Drugstore without drive-through	13,743	0.75	0.94	2.86	0.54	1,498.92	0.0000546	0.0000684	0.0002081	0.0000393	0.1090690
Hospital	220,913	2.86	3.33	9.58	1.81	5,461.65	0.0000129	0.0000151	0.0000434	0.0000082	0.0247231
Warehouse	213,930	1.04	0.94	2.45	0.46	1,487.41	0.0000049	0.0000044	0.0000115	0.0000022	0.0069528
General Light Industry	245,308	1.61	1.58	4.51	0.85	2,605.07	0.0000066	0.0000064	0.0000184	0.0000035	0.0106196
General Heavy Industry	612,417	1.84	0.99	2.67	0.51	1,619.00	0.0000030	0.0000016	0.0000044	0.0000008	0.0026436

Single Family Housing 198 units  
 Apartments Low Rise 204 units  
 Apartments Mid Rise 351 units  
 Apartments High Rise 537 units  
 Condo/Townhouse General + High Rise 136 units  
 Congregate Care (Assisted Living) Facility 74 units  
 University/College (4 years) 1,314 students  
 Hotel 191 rooms

2020 Summary of Pollutant Load by Urbemis Category					
	ROG (tons/yr)	Nox (tons/yr)	PM <sup>10</sup> (tons/yr)	PM <sup>2.5</sup> (tons/yr)	CO <sub>2</sub> (tons/yr)
Single Family Housing	296.24	125.78	336.80	94.04	201,060.17
Apartments Low Rise	5.35	1.90	5.41	1.67	3,037.95
Apartments Mid Rise	57.19	18.23	51.56	16.82	29,121.89
Apartments High Rise	86.02	26.30	73.57	24.81	41,719.75
Condo/Townhouse General + High Rise	35.49	12.55	35.85	11.11	20,114.84
Congregate Care (Assisted Living) Facility	17.12	3.23	8.07	3.97	4,780.31
Elementary School	4.42	5.20	14.03	2.66	8,346.88
University/College (4 years)	0.42	0.35	1.00	0.19	569.79
Place of Worship	2.54	3.00	7.26	1.36	4,627.96
High Turnover (sit-down) Restaurant	99.22	123.22	380.87	72.01	205,974.90
Hotel	2.39	2.87	7.25	1.37	4,541.95
Free-Standing Discount Store	-	-	-	-	-
Strip Mall	20.11	24.65	72.87	13.84	40,523.18
Supermarket	21.39	26.88	82.01	15.54	44,567.57
Convenience Market (24 Hour)	5.63	7.12	22.19	4.19	11,879.41
General Office Building	14.83	16.50	45.70	8.58	26,926.92
Office Park	-	-	-	-	-
Government Office Building	34.16	42.24	129.05	24.37	70,189.95
Pharmacy/Drugstore without drive-through	3.22	4.04	12.28	2.32	6,435.07
Hospital	4.77	5.55	15.96	3.02	9,099.83
Warehouse	14.06	12.71	33.12	6.22	20,107.42
General Light Industry	0.39	0.39	1.11	0.21	638.72
General Heavy Industry	-	-	-	-	-

- Urbemis Code**
- Single Family Housing
- Urbemis Code**
- Apartments Low Rise
- Urbemis Code**
- Apartments Mid Rise
- Urbemis Code**
- Apartments High Rise
- Urbemis Code**
- Condo/Townhouse General + High Rise
- Urbemis Code**
- Congregate Care (Assisted Living) Facility
- Urbemis Code**
- Elementary School
- Urbemis Code**
- University/College (4 years)
- Urbemis Code**
- Place of Worship
- Urbemis Code**
- High Turnover (sit-down) Restaurant
- Urbemis Code**
- Hotel
- Urbemis Code**
- Free-Standing Discount Store
- Urbemis Code**
- Strip Mall
- Urbemis Code**
- Supermarket
- Urbemis Code**
- Convenience Market (24 Hour)
- Urbemis Code**
- General Office Building
- Urbemis Code**
- Office Park
- Urbemis Code**
- Government Office Building
- Urbemis Code**
- Pharmacy/Drugstore without drive-through
- Urbemis Code**
- Hospital
- Urbemis Code**
- Warehouse
- Urbemis Code**
- General Light Industry
- Urbemis Code**
- General Heavy Industry





## **APPENDIX C**

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Criteria Air Pollutant Emissions Modeling and Threshold Sensitivity  
Analysis

















2015 Summary of Emissions by Urbemis Category

	Single Family	Apartments Low Rise	Apartments Mid Rise	Apartments High Rise	Condo/Townhouse General High Rise	Congregate Care (Assisted Living) Facility	Elementary School	University/College (4 years)	Place of Worship	High Turnover (sit-down) Restaurant	Hotel	Free-Standing Discount Store	Strip Mall	Supermarket	Convenience Market (24 Hour)	General Office Building	Office Park	Government Office Building	Pharmacy/Drugstore without drive-through	Hospital	Warehouse	General Light Industry	General Heavy Industry	
<b>Average Project Size (sq ft)</b>	-	13,524	18,704	34,976	-	21,018	6,063	5,820	15,638	22,471	8,020	14,288	-	13,884	23,663	5,500	15,168	-	20,189	14,000	32,975	23,444	13,938	-
50,000	68,459	61,516	67,765	90,804	79,786	20,406	20,646	-	83,920	-	64,545	-	57,204	69,561	-	74,978	-	74,622	-	56,075	63,431	67,777	-	-
100,000	152,278	87,927	136,045	125,275	161,234	50,681	39,574	-	94,256	-	83,676	-	114,367	-	-	137,021	-	143,805	-	119,965	131,151	-	-	-
200,000	265,876	-	245,430	257,108	326,624	-	41,945	-	-	-	-	-	182,827	-	-	232,350	-	254,194	-	-	-	295,677	-	-
400,000	705,717	-	368,531	350,771	-	-	-	-	-	-	-	-	-	-	-	411,531	-	-	-	-	314,092	-	-	-
600,000	927,493	-	-	571,726	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	388,155	-	-	-
800,000	1,089,595	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,000,000	1,831,881	-	-	1,673,475	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,364,491	-	-	-
2,000,000	6,109,665	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

\*Red text indicates formula reference to another sheet. Do not overwrite.

2015 Projected Projects and Emissions Forecasts

Projections		URBEMIS Output Emissions (TPY, lb/day)										Mitigation Effectiveness (if > TOS)		Mitigation Effectiveness (if < TOS)		TOS Project Capture Rate	TOS Emissions Capture Rate
#	Urbemis Code	Project Size	du	ROG (TPY)	ROG (lb/day)	NO <sub>x</sub> (TPY)	NO <sub>x</sub> (lb/day)	PM <sub>10</sub> (TPY)	PM <sub>10</sub> (lb/day)	PM <sub>2.5</sub> (TPY)	PM <sub>2.5</sub> (lb/day)	PM <sub>2.5</sub> TOS (TPY)	Project Frequency (Sum)	Reduction (TPY)	Aggregate Reduction 2010-2014 (T)		
												10	404	35	176	0.5%	25%
1	Single Family Housing	13,524	8	0.21	1.15	0.11	0.62	0.22	1.20	0.06	0.34	0	33	0	0	0	0
34	Single Family Housing	68,459	38	1.06	5.82	0.57	3.12	1.10	6.05	0.31	1.70	0	7	0	0	0	0
41	Single Family Housing	152,278	85	2.36	12.94	1.27	6.94	2.46	13.46	0.69	3.78	0	4	0	0	0	0
45	Single Family Housing	265,876	148	4.12	22.60	2.21	12.12	4.29	23.50	1.20	6.59	0	5	0	0	0	0
50	Single Family Housing	705,717	392	10.95	59.98	5.87	32.17	11.38	62.38	3.19	17.50	0	1	0	0	0	0
51	Single Family Housing	927,493	515	14.39	78.84	7.72	42.27	14.96	81.98	4.20	22.99	0	1	0	0	0	0
52	Single Family Housing	1,089,595	605	16.90	92.61	9.06	49.66	17.58	96.30	4.93	27.01	0	1	0	0	0	0
53	Single Family Housing	1,831,881	1,018	28.42	155.71	15.24	83.49	29.55	161.91	8.29	45.41	0	1	0	0	0	0
54	Single Family Housing	6,109,665	3,394	94.77	519.31	50.82	278.47	98.55	540.01	27.64	151.47	28	2	35	2	55	71
56	Apartments Low Rise	18,704	22	0.51	2.81	0.23	1.28	0.48	2.63	0.15	0.81	0	3	0	0	0	0
59	Apartments Low Rise	61,516	72	1.69	9.24	0.77	4.19	1.58	8.64	0.49	2.68	0	1	0	0	0	0
60	Apartments Low Rise	87,927	103	2.41	13.21	1.09	6.00	2.25	12.35	0.70	3.83	0	1	0	0	0	0
61	Apartments Mid Rise	34,976	41	0.92	5.03	0.37	2.05	0.77	4.24	0.25	1.39	0	1	0	0	0	0
62	Apartments Mid Rise	67,765	80	1.78	9.75	0.73	3.98	1.50	8.21	0.49	2.69	0	3	0	0	0	0
65	Apartments Mid Rise	136,045	160	3.57	19.57	1.46	7.99	3.01	16.47	0.98	5.39	0	4	0	0	0	0
69	Apartments Mid Rise	245,430	289	6.44	35.30	2.63	14.41	5.42	29.72	1.78	9.73	0	3	0	0	0	0
72	Apartments Mid Rise	368,531	434	9.67	53.01	3.95	21.64	8.14	44.62	2.67	14.60	0	2	0	0	0	0
74	Apartments High Rise	90,804	107	1.99	10.90	0.78	4.25	1.59	8.73	0.54	2.94	0	1	0	0	0	0
75	Apartments High Rise	125,275	147	2.75	15.04	1.07	5.86	2.20	12.04	0.74	4.06	0	2	0	0	0	0
77	Apartments High Rise	257,108	302	5.63	30.87	2.20	12.03	4.51	24.70	1.52	8.33	0	2	0	0	0	0
79	Apartments High Rise	350,771	413	7.69	42.12	2.99	16.41	6.15	33.70	2.07	11.36	0	1	0	0	0	0
80	Apartments High Rise	571,726	673	12.53	68.65	4.88	26.75	10.03	54.94	3.38	18.52	0	1	0	0	0	0
81	Apartments High Rise	1,673,475	1,969	36.67	200.95	14.29	78.29	29.35	160.80	9.89	54.20	0	1	0	0	0	0
82	Condo/Townhouse General	21,018	25	0.58	3.16	0.26	1.43	0.54	2.95	0.17	0.91	0	9	0	0	0	0
91	Condo/Townhouse General	79,786	94	2.19	12.00	0.99	5.43	2.05	11.21	0.63	3.47	0	2	0	0	0	0
93	Condo/Townhouse General	161,234	190	4.42	24.25	2.00	10.98	4.13	22.65	1.28	7.01	0	2	0	0	0	0
95	Condo/Townhouse General	326,624	384	8.96	49.12	4.06	22.24	8.37	45.87	2.59	14.21	0	2	0	0	0	0
97	Congregate Care (Assisted)	6,063	7	0.14	0.74	0.03	0.17	0.06	0.34	0.03	0.17	0	16	0	0	0	0
113	Congregate Care (Assisted)	20,406	24	0.46	2.50	0.10	0.57	0.21	1.15	0.10	0.57	0	2	0	0	0	0
115	Congregate Care (Assisted)	50,681	60	1.13	6.20	0.26	1.41	0.52	2.86	0.26	1.41	0	12	0	0	0	0
127	Elementary School	5,820	7	0.08	0.46	0.11	0.60	0.21	1.13	0.04	0.21	0	24	0	0	0	0
151	Elementary School	20,646	25	0.30	1.63	0.39	2.13	0.73	4.00	0.14	0.76	0	5	0	0	0	0
156	Elementary School	39,574	47	0.57	3.12	0.74	4.08	1.40	7.66	0.27	1.45	0	2	0	0	0	0
158	Elementary School	41,945	50	0.60	3.31	0.79	4.32	1.48	8.12	0.28	1.54	0	1	0	0	0	0
159	University/College (4 years)	15,638	19	0.51	2.80	0.48	2.64	0.94	5.18	0.18	0.99	0	1	0	0	0	0
160	Place of Worship	22,471	27	0.21	1.17	0.27	1.49	0.47	2.59	0.09	0.49	0	6	0	0	0	0
166	Place of Worship	83,920	101	0.80	4.36	1.02	5.57	1.77	9.68	0.33	1.82	0	1	0	0	0	0
167	Place of Worship	94,256	114	0.89	4.89	1.14	6.25	1.98	10.87	0.37	2.04	0	1	0	0	0	0
168	High Turnover (sit-down) Restaurant	8,020	10	0.83	4.55	1.15	6.31	2.38	13.06	0.45	2.47	0	148	0	0	67	0
316	Hotel	14,288	17	0.23	1.27	0.31	1.68	0.55	2.99	0.10	0.57	0	2	0	0	0	0
318	Hotel	64,545	78	1.05	5.75	1.38	7.57	2.47	13.51	0.47	2.56	0	1	0	0	0	0
319	Hotel	83,676	101	1.36	7.46	1.79	9.82	3.20	17.52	0.61	3.32	0	1	0	0	0	0
320	Strip Mall	13,884	17	0.50	2.73	0.69	3.79	1.38	7.57	0.26	1.43	0	19	0	0	5	0
339	Strip Mall	57,204	70	2.05	11.26	2.85	15.60	5.69	31.19	1.08	5.91	0	2	0	0	2	0
341	Strip Mall	114,367	140	4.11	22.51	5.69	31.18	11.38	62.36	2.15	11.81	0	1	0	0	2	0
342	Strip Mall	182,827	223	6.57	35.98	9.10	49.84	18.19	99.69	3.44	18.88	0	1	0	0	3	0
343	Supermarket	23,663	29	1.94	10.62	2.74	15.03	5.60	30.71	1.07	5.84	0	5	0	0	5	0
348	Supermarket	69,561	85	5.70	31.23	8.06	44.19	16.48	90.28	3.13	17.17	0	3	0	0	9	0
351	Convenience Market (24 Hr)	5,500	7	3.18	17.42	4.53	24.84	9.39	51.48	1.79	9.80	0	2	0	0	4	0
353	General Office Building	15,168	19	0.18	0.97	0.22	1.22	0.42	2.32	0.08	0.44	0	8	0	0	1	0
361	General Office Building	74,978	92	0.87	4.79	1.10	6.02	2.10	11.48	0.40	2.18	0	3	0	0	1	0
364	General Office Building	137,021	166	1.60	8.75	2.01	11.00	3.83	20.98	0.73	3.99	0	2	0	0	1	0
366	General Office Building	232,350	284	2.71	14.84	3.40	18.66	6.49	35.58	1.24	6.77	0	2	0	0	2	0
368	General Office Building	411,531	503	4.80	26.28	6.03	33.04	11.50	63.01	2.19	11.99	0	1	0	0	2	0
369	Government Office Building	20,189	25	1.16	6.34	1.61	8.84	3.30	18.07	0.63	3.42	0	6	0	0	4	0
375	Government Office Building	74,622	92	4.27	23.42	5.96	32.66										

2020 Summary of Emissions by Urbemis Category

Average Project Size (sq ft)	Single Family	Apartments Low Rise	Apartments Mid Rise	Apartments High Rise	Condo/Townhouse General + High Rise	Congregate Care (Assisted Living) Facility	Elementary School	University/College (4 years)	Place of Worship	High Turnover (sit-down) Restaurant	Hotel	Free-Standing Discount Store	Strip Mall	Supermarket	Convenience Market (24 Hour)	General Office Building	Office Park	Government Office Building	Pharmacy/Drugstore without drive-through	Hospital	Warehouse	General Light Industry	General Heavy Industry
-	13,581	19,196	36,229	-	19,977	5,997	5,859	16,573	21,230	8,013	15,336	-	13,660	20,926	6,500	14,735	-	18,423	14,750	35,837	25,489	15,036	-
50,000	72,914	63,135	70,194	94,057	84,260	21,446	18,765	-	92,499	-	69,278	-	62,207	55,362	-	81,941	-	79,443	-	60,942	68,963	73,119	-
100,000	162,188	90,241	140,920	129,764	170,275	49,166	43,162	-	103,892	-	89,812	-	124,371	-	-	149,746	-	153,096	-	130,377	142,590	76,001	-
200,000	283,179	-	254,225	266,322	344,939	-	45,748	-	-	-	-	-	198,818	-	-	253,929	-	270,616	-	140,915	-	318,980	-
400,000	375,822	-	381,737	363,340	-	-	-	-	-	-	-	-	-	-	-	449,750	-	-	-	-	341,487	-	-
600,000	987,852	-	-	592,213	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	422,010	-	-
800,000	1,160,504	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,000,000	1,951,096	-	-	1,733,443	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,483,499	-	-
2,000,000	6,507,269	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

\*Blue text indicates variables that can be adjusted to achieve the desired aggregate emissions reduction in cell P17

2020 Projected Projects and Emissions Forecasts

#	Urbemis Code	Project Size	du	URBEMIS Output Emissions (TPY, lb/day)												Mitigation Effectiveness (if > TOS)		Mitigation Effectiveness (if < TOS)		TOS Project Capture Rate	TOS Emissions Capture Rate
				ROG (TPY)	ROG (lb/day)	NO <sub>x</sub> (TPY)	NO <sub>x</sub> (lb/day)	PM <sub>10</sub> (TPY)	PM <sub>10</sub> (lb/day)	PM <sub>2.5</sub> (TPY)	PM <sub>2.5</sub> (lb/day)	ROG TOS (TPY)	Project Type Frequency Reduction (Sum)	Aggregate Reduction (T)	15%	0%					
1	Single Family H	13,581	8	0.192	1.05	0.082	0.45	0.219	1.20	0.061	0	0	35	0	0	7	0	0			
36	Single Family H	72,914	41	1.033	5.66	0.438	2.40	1.174	6.43	0.328	2	0	7	0	0	7	0	0			
43	Single Family H	162,188	90	2.297	12.59	0.975	5.34	2.612	14.31	0.729	4	0	4	0	0	9	0	0			
47	Single Family H	283,179	157	4.011	21.98	1.703	9.33	4.560	24.99	1.273	7	0	5	0	0	20	0	0			
52	Single Family H	375,822	209	5.323	29.17	2.260	12.38	6.052	33.16	1.690	9	0	2	0	0	11	0	0			
54	Single Family H	987,852	549	13.991	76.66	5.941	32.55	15.907	87.16	4.442	24	14	1	4	1	14	14	14			
55	Single Family H	1,160,504	645	16.437	90.06	6.979	38.24	18.687	102.39	5.218	29	16	1	6	1	16	16	16			
56	Single Family H	1,951,096	1084	27.634	151.42	11.733	64.29	31.417	172.15	8.773	48	28	1	18	1	28	28	28			
57	Single Family H	6,507,269	3615	92.164	505.01	39.133	214.43	104.782	574.15	29.259	160	92	2	28	2	184	184	184			
59	Apartments L	19,196	23	0.487	2.67	0.173	0.95	0.492	2.70	0.152	1	0	3	0	0	1	0	0			
62	Apartments L	63,135	74	1.601	8.77	0.567	3.11	1.619	8.87	0.498	3	0	1	0	0	2	0	0			
63	Apartments L	90,241	106	2.288	12.54	0.811	4.44	2.314	12.68	0.712	4	0	1	0	0	2	0	0			
64	Apartments M	36,229	43	0.887	4.86	0.283	1.55	0.799	4.38	0.261	1	0	1	0	0	1	0	0			
65	Apartments M	70,194	83	1.718	9.41	0.548	3.00	1.549	8.49	0.505	3	0	3	0	0	5	0	0			
68	Apartments M	140,920	166	3.449	18.90	1.099	6.02	3.109	17.04	1.014	6	0	4	0	0	14	0	0			
72	Apartments M	254,225	299	6.222	34.09	1.983	10.87	5.609	30.74	1.830	10	0	3	0	0	19	0	0			
75	Apartments M	381,737	449	9.343	51.20	2.978	16.32	8.423	46.15	2.748	15	0	2	0	0	19	0	0			
77	Apartments H	94,057	111	2.263	12.40	0.692	3.79	1.936	10.61	0.653	4	0	1	0	0	2	0	0			
78	Apartments H	129,764	153	3.122	17.11	0.955	5.23	2.670	14.63	0.901	5	0	2	0	0	6	0	0			
80	Apartments H	266,322	313	6.408	35.11	1.959	10.73	5.481	30.03	1.848	10	0	2	0	0	13	0	0			
82	Apartments H	363,340	427	8.742	47.90	2.673	14.64	7.477	40.97	2.522	14	0	1	0	0	9	0	0			
83	Apartments H	592,213	697	14.249	78.07	4.356	23.87	12.187	66.78	4.110	23	14	1	4	1	14	14	14			
84	Apartments H	1,733,443	2039	41.707	228.53	12.715	69.87	35.673	195.47	12.030	66	42	1	32	1	42	42	42			
85	Condo/Townh	19,977	24	0.507	2.78	0.179	0.98	0.512	2.81	0.159	1	0	10	0	0	5	0	0			
95	Condo/Townh	84,260	99	2.138	11.71	0.756	4.14	2.160	11.83	0.669	4	0	2	0	0	4	0	0			
97	Condo/Townh	170,275	200	4.320	23.67	1.528	8.37	4.365	23.92	1.352	7	0	2	0	0	9	0	0			
99	Condo/Townh	344,939	406	8.752	47.96	3.096	16.96	8.842	48.45	2.739	15	0	2	0	0	18	0	0			
101	Congregate Car	5,997	7	0.131	0.72	0.025	0.14	0.062	0.34	0.030	0	0	17	0	0	2	0	0			
118	Congregate Car	21,446	25	0.468	2.57	0.088	0.48	0.221	1.21	0.109	1	0	2	0	0	1	0	0			
120	Congregate Car	49,166	58	1.074	5.88	0.202	1.11	0.506	2.77	0.249	1	0	13	0	0	14	0	0			
133	Elementary Sch	5,859	7	0.065	0.36	0.077	0.42	0.207	1.13	0.039	0	0	26	0	0	2	0	0			
159	Elementary Sch	18,765	22	0.209	1.14	0.246	1.35	0.663	3.63	0.126	1	0	6	0	0	1	0	0			
165	Elementary Sch	43,162	52	0.480	2.63	0.565	3.10	1.525	8.36	0.290	2	0	2	0	0	1	0	0			
167	Elementary Sch	45,748	55	0.509	2.79	0.599	3.28	1.617	8.86	0.307	2	0	1	0	0	1	0	0			
168	University/Colle	16,573	20	0.424	2.32	0.348	1.91	1.001	5.48	0.189	1	0	1	0	0	0	0	0			
169	Place of Worshi	21,230	26	0.156	0.86	0.184	1.01	0.447	2.45	0.084	0	0	7	0	0	1	0	0			
176	Place of Worshi	92,499	112	0.682	3.74	0.803	4.40	1.948	10.67	0.365	2	0	1	0	0	1	0	0			
177	Place of Worshi	103,892	125	0.766	4.20	0.902	4.94	2.188	11.99	0.410	2	0	1	0	0	1	0	0			
178	High Turnover (	8,013	10	0.620	3.40	0.770	4.22	2.380	13.04	0.450	2	0	160	0	0	99	0	0			
338	Hotel	15,336	19	0.193	1.06	0.232	1.27	0.586	3.21	0.111	1	0	2	0	0	0	0	0			
340	Hotel	69,278	84	0.872	4.78	1.047	5.74	2.647	14.50	0.502	3	0	1	0	0	1	0	0			
341	Hotel	89,812	109	1.131	6.20	1.357	7.44	3.431	18.80	0.650	4	0	1	0	0	1	0	0			
342	Strip Mall	13,660	17	0.374	2.05	0.458	2.51	1.355	7.43	0.257	1	0	21	0	0	8	0	0			
363	Strip Mall	62,207	76	1.703	9.33	2.088	11.44	6.172	33.82	1.172	6	0	2	0	0	3	0	0			
365	Strip Mall	124,371	154	3.405	18.66	4.174	22.87	12.339	67.61	2.343	13	0	1	0	0	3	0	0			
366	Strip Mall	198,818	244	5.444	29.83	6.673	36.56	19.726	108.09	3.746	21	0	1	0	0	5	0	0			
367	Supermarket	20,926	26	1.290	7.07	1.621	8.88	4.945	27.10	0.937	5	0	6	0	0	8	0	0			
373	Supermarket	55,362	69	3.413	18.70	4.288	23.50	13.084	71.69	2.480	14	0	4	0	0	14	0	0			
377	Convenience M	6,500	8	2.814	15.42	3.560	19.51	11.094	60.79	2.095	11	0	2	0	0	6	0	0			
379	General Office I	14,735	18	0.134	0.73	0.149	0.81	0.412	2.26	0.077	0	0	9	0	0	1	0	0			
388	General Office I	81,941	101	0.743	4.07	0.827	4.53	2.290	12.55	0.430	2	0	3	0	0	2	0	0			
391	General Office I	149,746																			

2020 Summary of Emissions by Urbemis Category

Average Project Size (sq ft)	Single Family	Apartments Low Rise	Apartments Mid Rise	Apartments High Rise	Condo/Townhouse General + High Rise	Congregate Care (Assisted Living) Facility	Elementary School	University/College (4 years)	Place of Worship	High Turnover (sit-down) Restaurant	Hotel	Free-Standing Discount Store	Strip Mall	Supermarket	Convenience Market (24 Hour)	General Office Building	Office Park	Government Office Building	Pharmacy/Drugstore without drive-through	Hospital	Warehouse	General Light Industry	General Heavy Industry
-	13,581	19,196	36,229	-	19,977	5,997	5,859	16,573	21,230	8,013	15,336	-	13,660	20,926	6,500	14,735	-	18,423	14,750	35,837	25,489	15,036	-
50,000	72,914	63,135	70,194	94,057	84,260	21,446	18,765	-	92,499	-	69,278	-	62,207	55,362	-	81,941	-	79,443	-	60,942	68,963	73,119	-
100,000	162,188	90,241	140,920	129,764	170,275	49,166	43,162	-	103,892	-	89,812	-	124,371	-	-	149,746	-	153,096	-	130,377	142,590	76,001	-
200,000	283,179	-	254,225	266,322	344,939	-	45,748	-	-	-	-	-	198,818	-	-	253,929	-	270,616	-	140,915	-	318,980	-
400,000	375,822	-	381,737	363,340	-	-	-	-	-	-	-	-	-	-	-	449,750	-	-	-	-	341,487	-	-
600,000	987,852	-	-	592,213	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	422,010	-	-
800,000	1,160,504	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,000,000	1,951,096	-	-	1,733,443	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,483,499	-	-
2,000,000	6,507,269	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

\*Blue text indicates variables that can be adjusted to achieve the desired aggregate emissions reduction in cell P18 (which should equal the value in cell S18)

2020 Projected Projects and Emissions Forecasts

#	Urbemis Code	Project Size	du	URBEMIS Output Emissions (TPY, lb/day)											Mitigation Effectiveness (if > TOS) 15%		Mitigation Effectiveness (if < TOS) 0%		TOS Project Capture Rate	TOS Emissions Capture Rate
				ROG (TPY)	ROG (lb/day)	NO <sub>x</sub> (TPY)	NO <sub>x</sub> (lb/day)	PM <sub>10</sub> (TPY)	PM <sub>10</sub> (lb/day)	PM <sub>2.5</sub> (TPY)	PM <sub>2.5</sub> (lb/day)	NO <sub>x</sub> TOS (TPY)	Project Type Frequency Reduction (TPY)	Aggregate Reduction (T)	TOS Project Capture Rate	TOS Emissions Capture Rate				
1	Single Family Hi	13,581	8	0.192	1.05	0.082	0.45	0.219	1.20	0.061	0	10	436	67	1,137	1%	25%			
36	Single Family Hi	72,914	41	1.033	5.66	0.438	2.40	1.174	6.43	0.328	2	0	7	0	0	0	0			
43	Single Family Hi	162,188	90	2.297	12.59	0.975	5.34	2.612	14.31	0.729	4	0	4	0	0	0	0			
47	Single Family Hi	283,179	157	4.011	21.98	1.703	9.33	4.560	24.99	1.273	7	0	5	0	0	0	0			
52	Single Family Hi	375,822	209	5.323	29.17	2.260	12.38	6.052	33.16	1.690	9	0	2	0	0	0	0			
54	Single Family Hi	987,852	549	13.991	76.66	5.941	32.55	15.907	87.16	4.442	24	0	1	0	0	0	0			
55	Single Family Hi	1,160,504	645	16.437	90.06	6.979	38.24	18.687	102.39	5.218	29	0	1	0	0	0	0			
56	Single Family Hi	1,951,096	1084	27.634	151.42	11.733	64.29	31.417	172.15	8.773	48	12	1	2	1	12	12			
57	Single Family Hi	6,507,269	3615	92.164	505.01	39.133	214.43	104.782	574.15	29.259	160	39	2	58	2	78	78			
59	Apartments Lov	19,196	23	0.487	2.67	0.173	0.95	0.492	2.70	0.152	1	0	3	0	0	1	0			
62	Apartments Lov	63,135	74	1.601	8.77	0.567	3.11	1.619	8.87	0.498	3	0	1	0	0	1	0			
63	Apartments Lov	90,241	106	2.288	12.54	0.811	4.44	2.314	12.68	0.712	4	0	1	0	0	1	0			
64	Apartments Mli	36,229	43	0.887	4.86	0.283	1.55	0.799	4.38	0.261	1	0	1	0	0	0	0			
65	Apartments Mli	70,194	83	1.718	9.41	0.548	3.00	1.549	8.49	0.505	3	0	3	0	0	2	0			
68	Apartments Mli	140,920	166	3.449	18.90	1.099	6.02	3.109	17.04	1.014	6	0	4	0	0	4	0			
72	Apartments Mli	254,225	299	6.222	34.09	1.983	10.87	5.609	30.74	1.830	10	0	3	0	0	6	0			
75	Apartments Mli	381,737	449	9.343	51.20	2.978	16.32	8.423	46.15	2.748	15	0	2	0	0	6	0			
77	Apartments Hig	94,057	111	2.263	12.40	0.692	3.79	1.936	10.61	0.653	4	0	1	0	0	1	0			
78	Apartments Hig	129,764	153	3.122	17.11	0.955	5.23	2.670	14.63	0.901	5	0	2	0	0	2	0			
80	Apartments Hig	266,322	313	6.408	35.11	1.959	10.73	5.481	30.03	1.848	10	0	2	0	0	4	0			
82	Apartments Hig	363,340	427	8.742	47.90	2.673	14.64	7.477	40.97	2.522	14	0	1	0	0	3	0			
83	Apartments Hig	592,213	697	14.249	78.07	4.356	23.87	12.187	66.78	4.110	23	0	1	0	0	4	0			
84	Apartments Hig	1,733,443	2039	41.707	228.53	12.751	69.87	35.673	195.47	12.030	66	13	1	3	1	13	13			
85	Condo/Townho	19,977	24	0.507	2.78	0.179	0.98	0.512	2.81	0.159	1	0	10	0	0	2	0			
95	Condo/Townho	84,260	99	2.138	11.71	0.756	4.14	2.160	11.83	0.669	4	0	2	0	0	2	0			
97	Condo/Townho	170,275	200	4.320	23.67	1.528	8.37	4.365	23.92	1.352	7	0	2	0	0	3	0			
99	Condo/Townho	344,939	406	8.752	47.96	3.096	16.96	8.842	48.45	2.739	15	0	2	0	0	6	0			
101	Congregate Car	5,997	7	0.131	0.72	0.025	0.14	0.062	0.34	0.030	0	0	17	0	0	0	0			
118	Congregate Car	21,446	25	0.468	2.57	0.088	0.48	0.221	1.21	0.109	1	0	2	0	0	0	0			
120	Congregate Car	49,166	58	1.074	5.88	0.202	1.11	0.506	2.77	0.249	1	0	13	0	0	3	0			
133	Elementary Sch	5,859	8	0.065	0.36	0.077	0.42	0.207	1.13	0.039	0	0	26	0	0	2	0			
159	Elementary Sch	18,765	14	0.209	1.14	0.246	1.35	0.663	3.63	0.126	1	0	6	0	0	1	0			
165	Elementary Sch	43,162	43	0.480	2.63	0.565	3.10	1.525	8.36	0.290	2	0	2	0	0	1	0			
167	Elementary Sch	45,748	48	0.509	2.79	0.599	3.28	1.617	8.86	0.307	2	0	1	0	0	1	0			
168	University/Colle	16,573	11	0.424	2.32	0.348	1.91	1.001	5.48	0.189	1	0	1	0	0	0	0			
169	Place of Worshi	21,230	13	0.156	0.86	0.184	1.01	0.447	2.45	0.084	0	0	7	0	0	1	0			
176	Place of Worshi	92,499	52	0.682	3.74	0.803	4.40	1.948	10.67	0.365	2	0	1	0	0	1	0			
177	Place of Worshi	103,892	57	0.766	4.20	0.902	4.94	2.188	11.99	0.410	2	0	1	0	0	1	0			
178	High Turnover (	8,013	4	0.620	3.40	0.770	4.22	2.380	13.04	0.450	2	0	160	0	0	123	0			
338	Hotel	15,336	9	0.193	1.06	0.232	1.27	0.586	3.21	0.111	1	0	2	0	0	0	0			
340	Hotel	69,278	47	0.872	4.78	1.047	5.74	2.647	14.50	0.502	3	0	1	0	0	1	0			
341	Hotel	89,812	52	1.131	6.20	1.357	7.44	3.431	18.80	0.650	4	0	1	0	0	1	0			
342	Strip Mall	13,660	9	0.374	2.05	0.458	2.51	1.355	7.43	0.257	1	0	21	0	0	10	0			
363	Strip Mall	62,207	37	1.703	9.33	2.088	11.44	6.172	33.82	1.172	6	0	2	0	0	4	0			
365	Strip Mall	124,371	76	3.405	18.66	4.174	22.87	12.339	67.61	2.343	13	0	1	0	0	4	0			
366	Strip Mall	198,818	119	5.444	29.83	6.673	36.56	19.726	108.09	3.746	21	0	1	0	0	7	0			
367	Supermarket	20,926	14	1.290	7.07	1.621	8.88	4.945	27.10	0.937	5	0	6	0	0	10	0			
373	Supermarket	55,362	34	3.413	18.70	4.288	23.50	13.084	71.69	2.480	14	0	4	0	0	17	0			
377	Convenience M	6,500	4	2.814	15.42	3.560	19.51	11.094	60.79	2.095	11	0	2	0	0	7	0			
379	General Office I	14,735	10	0.134	0.73	0.149	0.81	0.412	2.26	0.077	0	0	9	0	0	1	0			
388	General Office I	81,941	51	0.743	4.07	0.827	4.53	2.290	12.55	0.430	2	0	3	0	0	2	0			
391	General Office I	149,746	91	1.357	7.44	1.510	8.28	4.184	22.93	0.786	4	0	2	0	0	3	0			
393	General Office I	253,929	162	2.302	12.61	2.561	14.03	7.096	38.88	1.333	7	0	2	0	0	5	0			
395	General Office I	449,750	276	4.077	22.34	4.537	24.86	12.568	68.86	2.360	13	0	1	0	0	5	0			
396	Government Of	18,423	13	0.796	4.36	0.984	5.39	3.006	16.47	0.567	3	0	7	0	0	7	0			
403	Government Of	79,443	53	3.431	18.80	4.242	23.25	12.961	71.02	2.447	13	0	3	0	0	13	0			
406	Government Of	153,096																		

2020 Summary of Emissions by Urbemis Category

	Single Family	Apartments Low Rise	Apartments Mid Rise	Apartments High Rise	Condo/Townhouse General + High Rise	Congregate Care (Assisted Living) Facility	Elementary School	University/College (4 years)	Place of Worship	High Turnover (sit-down) Restaurant	Hotel	Free-Standing Discount Store	Strip Mall	Supermarket	Convenience Market (24 Hour)	General Office Building	Office Park	Government Office Building	Pharmacy/Drugstore without drive-through	Hospital	Warehouse	General Light Industry	General Heavy Industry	
<b>Average Project Size (sq ft)</b>																								
-	13,581	19,196	36,229	-	19,977	5,997	5,859	16,573	21,230	8,013	15,336	-	13,660	20,926	6,500	14,735	-	18,423	14,750	35,837	25,489	15,036	-	
50,000	72,914	63,135	70,194	94,057	84,260	21,446	18,765	-	92,499	-	69,278	-	62,207	55,362	-	81,941	-	79,443	-	60,942	68,963	73,119	-	
100,000	162,188	90,241	140,920	129,764	170,275	49,166	43,162	-	103,892	-	89,812	-	124,371	-	-	149,746	-	153,096	-	130,377	142,590	76,001	-	
200,000	283,179	-	254,225	266,322	344,939	-	45,748	-	-	-	-	-	198,818	-	-	253,929	-	270,616	-	140,915	-	318,980	-	
400,000	375,822	-	381,737	363,340	-	-	-	-	-	-	-	-	-	-	-	449,750	-	-	-	-	341,487	-	-	
600,000	987,852	-	-	592,213	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	422,010	-	-	
800,000	1,160,504	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1,000,000	1,951,096	-	-	1,733,443	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,483,499	-	-	
2,000,000	6,507,269	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

\*Blue text indicates variables that can be adjusted to achieve the desired aggregate emissions reduction in cell P18 (which should equal the value in cell S18)

2020 Projected Projects and Emissions Forecasts

Projections		URBEMIS Output Emissions (TPY, lb/day)										Mitigation Effectiveness (if > TOS)		Mitigation Effectiveness (if < TOS)		TOS Project Capture Rate	TOS Emissions Capture Rate
#	Urbemis Code	Project Size	du	ROG (TPY)	ROG (lb/day)	NO <sub>x</sub> (TPY)	NO <sub>x</sub> (lb/day)	PM <sub>10</sub> (TPY)	PM <sub>10</sub> (lb/day)	PM <sub>2.5</sub> (TPY)	PM <sub>2.5</sub> (lb/day)	PM <sub>10</sub> TOS (TPY)	Project Type Frequency Reduction (TPY)	Aggregate Reduction (T)	15%		
1	Single Family H	13,581	8	0.192	1.05	0.082	0.45	0.219	1.20	0.061	0	15	436	119	1,867	2%	31%
36	Single Family H	72,914	41	1.033	5.66	0.438	2.40	1.174	6.43	0.328	2	0	7	0	0	0	0
43	Single Family H	162,188	90	2.297	12.59	0.975	5.34	2.612	14.31	0.729	4	0	4	0	0	0	10
47	Single Family H	283,179	157	4.011	21.98	1.703	9.33	4.560	24.99	1.273	7	0	5	0	0	0	23
52	Single Family H	375,822	209	5.323	29.17	2.260	12.38	6.052	33.16	1.690	9	0	2	0	0	0	12
54	Single Family H	987,852	549	13.991	76.66	5.941	32.55	15.907	87.16	4.442	24	16	1	1	1	1	16
55	Single Family H	1,160,504	645	16.437	90.06	6.979	38.24	18.687	102.39	5.218	29	19	1	4	1	1	19
56	Single Family H	1,951,096	1084	27.634	151.42	11.733	64.29	31.417	172.15	8.773	48	31	1	16	1	1	31
57	Single Family H	6,507,269	3615	92.164	505.01	39.133	214.43	104.782	574.15	29.259	160	105	2	31	2	2	210
59	Apartments Lov	19,196	23	0.487	2.67	0.173	0.95	0.492	2.70	0.152	1	0	3	0	0	0	1
62	Apartments Lov	63,135	74	1.601	8.77	0.567	3.11	1.619	8.87	0.498	3	0	1	0	0	0	2
63	Apartments Lov	90,241	106	2.288	12.54	0.811	4.44	2.314	12.68	0.712	4	0	1	0	0	0	2
64	Apartments Mii	36,229	43	0.887	4.86	0.283	1.55	0.799	4.38	0.261	1	0	1	0	0	0	1
65	Apartments Mii	70,194	83	1.718	9.41	0.548	3.00	1.549	8.49	0.505	3	0	3	0	0	0	5
68	Apartments Mii	140,920	166	3.449	18.90	1.099	6.02	3.109	17.04	1.014	6	0	4	0	0	0	12
72	Apartments Mii	254,225	299	6.222	34.09	1.983	10.87	5.609	30.74	1.830	10	0	3	0	0	0	17
75	Apartments Mii	381,737	449	9.343	51.20	2.978	16.32	8.423	46.15	2.748	15	0	2	0	0	0	17
77	Apartments Hig	94,057	111	2.263	12.40	0.692	3.79	1.936	10.61	0.653	4	0	1	0	0	0	2
78	Apartments Hig	129,764	153	3.122	17.11	0.955	5.23	2.670	14.63	0.901	5	0	2	0	0	0	5
80	Apartments Hig	266,322	313	6.408	35.11	1.959	10.73	5.481	30.03	1.848	10	0	2	0	0	0	11
82	Apartments Hig	363,340	427	8.742	47.90	2.673	14.64	7.477	40.97	2.522	14	0	1	0	0	0	7
83	Apartments Hig	592,213	697	14.249	78.07	4.356	23.87	12.187	66.78	4.110	23	0	1	0	0	0	12
84	Apartments Hig	1,733,443	2039	41.707	228.53	12.715	69.87	35.673	195.47	12.030	66	36	1	21	1	1	36
85	Condo/Townho	19,977	24	0.507	2.78	0.179	0.98	0.512	2.81	0.159	1	0	10	0	0	0	5
95	Condo/Townho	84,260	99	2.138	11.71	0.756	4.14	2.160	11.83	0.669	4	0	2	0	0	0	4
97	Condo/Townho	170,275	200	4.320	23.67	1.528	8.37	4.365	23.92	1.352	7	0	2	0	0	0	9
99	Condo/Townho	344,939	406	8.752	47.96	3.096	16.96	8.842	48.45	2.739	15	0	2	0	0	0	18
101	Congregate Car	5,997	7	0.131	0.72	0.025	0.14	0.062	0.34	0.030	0	0	17	0	0	0	1
118	Congregate Car	21,446	25	0.468	2.57	0.088	0.48	0.221	1.21	0.109	1	0	2	0	0	0	0
120	Congregate Car	49,166	58	1.074	5.88	0.202	1.11	0.506	2.77	0.249	1	0	13	0	0	0	7
133	Elementary Sch	5,859	8	0.065	0.36	0.077	0.42	0.207	1.13	0.039	0	0	26	0	0	0	5
159	Elementary Sch	18,765	14	0.209	1.14	0.246	1.35	0.663	3.63	0.126	1	0	6	0	0	0	4
165	Elementary Sch	43,162	40	0.480	2.63	0.565	3.10	1.525	8.36	0.290	2	0	2	0	0	0	3
167	Elementary Sch	45,748	40	0.509	2.79	0.599	3.28	1.617	8.86	0.307	2	0	1	0	0	0	2
168	University/Colle	16,573	12	0.424	2.32	0.348	1.91	1.001	5.48	0.189	1	0	1	0	0	0	1
169	Place of Worshi	21,230	16	0.156	0.86	0.184	1.01	0.447	2.45	0.084	0	0	7	0	0	0	3
176	Place of Worshi	92,499	72	0.682	3.74	0.803	4.40	1.948	10.67	0.365	2	0	1	0	0	0	2
177	Place of Worshi	103,892	80	0.766	4.20	0.902	4.94	2.188	11.99	0.410	2	0	1	0	0	0	2
178	High Turnover (	8,013	6	0.620	3.40	0.770	4.22	2.380	13.04	0.450	2	0	160	0	0	0	381
338	Hotel	15,336	12	0.193	1.06	0.232	1.27	0.586	3.21	0.111	1	0	2	0	0	0	1
340	Hotel	69,278	54	0.872	4.78	1.047	5.74	2.647	14.50	0.502	3	0	1	0	0	0	3
341	Hotel	89,812	70	1.131	6.20	1.357	7.44	3.431	18.80	0.650	4	0	1	0	0	0	3
342	Strip Mall	13,660	10	0.374	2.05	0.458	2.51	1.355	7.43	0.257	1	0	21	0	0	0	28
363	Strip Mall	62,207	48	1.703	9.33	2.088	11.44	6.172	33.82	1.172	6	0	2	0	0	0	12
365	Strip Mall	124,371	96	3.405	18.66	4.174	22.87	12.339	67.61	2.343	13	0	1	0	0	0	12
366	Strip Mall	198,818	152	5.444	29.83	6.673	36.56	19.726	108.09	3.746	21	20	1	5	1	1	20
367	Supermarket	20,926	16	1.290	7.07	1.621	8.88	4.945	27.10	0.937	5	0	6	0	0	0	30
373	Supermarket	55,362	43	3.413	18.70	4.288	23.50	13.084	71.69	2.480	14	0	4	0	0	0	52
377	Convenience M	6,500	5	2.814	15.42	3.560	19.51	11.094	60.79	2.095	11	0	2	0	0	0	22
379	General Office I	14,735	11	0.134	0.73	0.149	0.81	0.412	2.26	0.077	0	0	9	0	0	0	4
388	General Office I	81,941	64	0.743	4.07	0.827	4.53	2.290	12.55	0.430	2	0	3	0	0	0	7
391	General Office I	149,746	116	1.357	7.44	1.510	8.28	4.184	22.93	0.786	4	0	2	0	0	0	8
393	General Office I	253,929	200	2.302	12.61	2.561	14.03	7.096	38.88	1.333	7	0	2	0	0	0	14
395	General Office I	449,750	360	4.077	22.34	4.537	24.86	12.568	68.86	2.360	13	0	1	0	0	0	13
396	Government Of	18,423	14	0.796	4.36	0.984	5.39	3.006	16.47	0.567	3	0	7	0	0	0	21
403	Government Of	79,443	62	3.431	18.80	4.242	23.25	12.961	71.02	2.447	13	0	3	0	0	0	39
406	Government Of	153,096	121	6.612	36.23	8.176	44.80	24.978	136.86	4.716	26	25	1	10	1	1	25
407	Government Of	270,616	215	11.687	64.04	14.452	79.19	44.151	241.92	8.336	46	44	1	29	1	1	44
408	Pharmacy/Drug	14,750	11	0.805	4.41	1.009	5.53	3.070	16.82	0.580	3	0	4	0	0	0	12
412	Hospital	35,837	28	0.464	2.54	0.540	2.96	1.554	8.52	0.294	2	0	1	0	0	0	2
413	Hospital	60,942	48	0.789	4.32	0.919	5.03	2.643	14.48	0.499	3	0	1	0	0	0	3
414	Hospital	130,377	104	1.688	9.25	1.965	10.77	5.654	30.98	1.068	6	0	1	0	0	0	6
415	Hospital	140,915	112	1.824	10.00	2.124	11.64	6.111	33.48	1.155	6	0	1	0	0	0	6
416	Warehouse	25,489	20	0.124	0.68	0.112	0.61	0.292	1.60	0.055	0	0	6	0	0	0	2
422	Warehouse	6															

2020 Summary of Emissions by Urbemis Category

Average Project Size (sq ft)	Single Family	Apartments Low Rise	Apartments Mid Rise	Apartments High Rise	Condo/Townhouse General + High Rise	Congregate Care (Assisted Living) Facility	Elementary School	University/College (4 years)	Place of Worship	High Turnover (sit-down) Restaurant	Hotel	Free-Standing Discount Store	Strip Mall	Supermarket	Convenience Market (24 Hour)	General Office Building	Office Park	Government Office Building	Pharmacy/Drugstore without drive-through	Hospital	Warehouse	General Light Industry	General Heavy Industry
-	13,581	19,196	36,229	-	19,977	5,997	5,859	16,573	21,230	8,013	15,336	-	13,660	20,926	6,500	14,735	-	18,423	14,750	35,837	25,489	15,036	-
50,000	72,914	63,135	70,194	94,057	84,260	21,446	18,765	-	92,499	-	69,278	-	62,207	55,362	-	81,941	-	79,443	-	60,942	68,963	73,119	-
100,000	162,188	90,241	140,920	129,764	170,275	49,166	43,162	-	103,892	-	89,812	-	124,371	-	-	149,746	-	153,096	-	130,377	142,590	76,001	-
200,000	283,179	-	254,225	266,322	344,939	-	45,748	-	-	-	-	-	198,818	-	-	253,929	-	270,616	-	140,915	-	318,980	-
400,000	375,822	-	381,737	363,340	-	-	-	-	-	-	-	-	-	-	-	449,750	-	-	-	-	341,487	-	-
600,000	987,852	-	-	592,213	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	422,010	-	-
800,000	1,160,504	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,000,000	1,951,096	-	-	1,733,443	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,483,499	-	-
2,000,000	6,507,269	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

\*Blue text indicates variables that can be adjusted to achieve the desired aggregate emissions reduction in cell P18 (which should equal the value in cell S18)

2020 Projected Projects and Emissions Forecasts

#	Urbemis Code	Project Size	du	URBEMIS Output Emissions (TPY, lb/day)									PM2.5 TOS (TPY)		Project Type Frequency Reduction (TPY)		Aggregate Reduction (T)		TOS Project Capture Rate		TOS Emissions Capture Rate	
				ROG (TPY)	ROG (lb/day)	NO <sub>x</sub> (TPY)	NO <sub>x</sub> (lb/day)	PM <sub>10</sub> (TPY)	PM <sub>10</sub> (lb/day)	PM <sub>2.5</sub> (TPY)	PM <sub>2.5</sub> (lb/day)	Sum	Reduction	Aggregate	1%	23%	15%	0%				
1	Single Family H	13,581	8	0.192	1.05	0.082	0.45	0.219	1.20	0.061	0	0	35	0	0	0	0	0	2	0		
36	Single Family H	72,914	41	1.033	5.66	0.438	2.40	1.174	6.43	0.328	2	0	7	0	0	0	0	0	2	0		
43	Single Family H	162,188	90	2.297	12.59	0.975	5.34	2.612	14.31	0.729	4	0	4	0	0	0	0	0	3	0		
47	Single Family H	283,179	157	4.011	21.98	1.703	9.33	4.560	24.99	1.273	7	0	5	0	0	0	0	0	6	0		
52	Single Family H	375,822	209	5.323	29.17	2.260	12.38	6.052	33.16	1.690	9	0	2	0	0	0	0	0	3	0		
54	Single Family H	987,852	549	13.991	76.66	5.941	32.55	15.907	87.16	4.442	24	0	1	0	0	0	0	0	4	0		
55	Single Family H	1,160,504	645	16.437	90.06	6.979	38.24	18.687	102.39	5.218	29	0	1	0	0	0	0	0	5	0		
56	Single Family H	1,951,096	1084	27.634	151.42	11.733	64.29	31.417	172.15	8.773	48	0	1	0	0	0	0	0	9	0		
57	Single Family H	6,507,269	3615	92.164	505.01	39.133	214.43	104.782	574.15	29.259	160	29	2	39	2	2	59	59	59	59		
59	Apartments L	19,196	23	0.487	2.67	0.173	0.95	0.492	2.70	0.152	1	0	3	0	0	0	0	0	0	0		
62	Apartments L	63,135	74	1.601	8.77	0.567	3.11	1.619	8.87	0.498	3	0	1	0	0	0	0	0	0	0		
63	Apartments L	90,241	106	2.288	12.54	0.811	4.44	2.314	12.68	0.712	4	0	1	0	0	0	0	0	1	0		
64	Apartments M	36,229	43	0.887	4.86	0.283	1.55	0.799	4.38	0.261	1	0	1	0	0	0	0	0	0	0		
65	Apartments M	70,194	83	1.718	9.41	0.548	3.00	1.549	8.49	0.505	3	0	3	0	0	0	0	0	2	0		
68	Apartments M	140,920	166	3.449	18.90	1.099	6.02	3.109	17.04	1.014	6	0	4	0	0	0	0	0	4	0		
72	Apartments M	254,225	299	6.222	34.09	1.983	10.87	5.609	30.74	1.830	10	0	3	0	0	0	0	0	5	0		
75	Apartments M	381,737	449	9.343	51.20	2.978	16.32	8.423	46.15	2.748	15	0	2	0	0	0	0	0	5	0		
77	Apartments H	94,057	111	2.263	12.40	0.692	3.79	1.936	10.61	0.653	4	0	1	0	0	0	0	0	1	0		
78	Apartments H	129,764	153	3.122	17.11	0.955	5.23	2.670	14.63	0.901	5	0	2	0	0	0	0	0	2	0		
80	Apartments H	266,322	313	6.408	35.11	1.959	10.73	5.481	30.03	1.848	10	0	2	0	0	0	0	0	4	0		
82	Apartments H	363,340	427	8.742	47.90	2.673	14.64	7.477	40.97	2.522	14	0	1	0	0	0	0	0	3	0		
83	Apartments H	592,213	697	14.249	78.07	4.356	23.87	12.187	66.78	4.110	23	0	1	0	0	0	0	0	4	0		
84	Apartments H	1,733,443	2039	41.707	228.53	12.751	69.87	35.673	195.47	12.030	66	12	1	2	1	1	12	12	12	12		
85	Condo/Townho	19,977	24	0.507	2.78	0.179	0.98	0.512	2.81	0.159	1	0	10	0	0	0	0	0	2	0		
95	Condo/Townho	84,260	99	2.138	11.71	0.756	4.14	2.160	11.83	0.669	4	0	2	0	0	0	0	0	1	0		
97	Condo/Townho	170,275	200	4.320	23.67	1.528	8.37	4.365	23.92	1.352	7	0	2	0	0	0	0	0	3	0		
99	Condo/Townho	344,939	406	8.752	47.96	3.096	16.96	8.842	48.45	2.739	15	0	2	0	0	0	0	0	5	0		
101	Congregate Car	5,997	7	0.131	0.72	0.025	0.14	0.062	0.34	0.030	0	0	17	0	0	0	0	0	1	0		
118	Congregate Car	21,446	25	0.468	2.57	0.088	0.48	0.221	1.21	0.109	1	0	2	0	0	0	0	0	0	0		
120	Congregate Car	49,166	58	1.074	5.88	0.202	1.11	0.506	2.77	0.249	1	0	13	0	0	0	0	0	3	0		
133	Elementary Sch	5,859	7	0.065	0.36	0.077	0.42	0.207	1.13	0.039	0	0	26	0	0	0	0	0	1	0		
159	Elementary Sch	18,765	14	0.209	1.14	0.246	1.35	0.663	3.63	0.126	1	0	6	0	0	0	0	0	1	0		
165	Elementary Sch	43,162	43	0.480	2.63	0.565	3.10	1.525	8.36	0.290	2	0	2	0	0	0	0	0	1	0		
167	Elementary Sch	45,748	43	0.509	2.79	0.599	3.28	1.617	8.86	0.307	2	0	1	0	0	0	0	0	0	0		
168	University/Colle	16,573	12	0.424	2.32	0.348	1.91	1.001	5.48	0.189	1	0	1	0	0	0	0	0	0	0		
169	Place of Worshi	21,230	16	0.156	0.86	0.184	1.01	0.447	2.45	0.084	0	0	7	0	0	0	0	0	1	0		
176	Place of Worshi	92,499	74	0.682	3.74	0.803	4.40	1.948	10.67	0.365	2	0	1	0	0	0	0	0	0	0		
177	Place of Worshi	103,892	83	0.766	4.20	0.902	4.94	2.188	11.99	0.410	2	0	1	0	0	0	0	0	0	0		
178	High Turnover (	8,013	6	0.620	3.40	0.770	4.22	2.380	13.04	0.450	2	0	160	0	0	0	0	0	72	0		
338	Hotel	15,336	11	0.193	1.06	0.232	1.27	0.586	3.21	0.111	1	0	2	0	0	0	0	0	0	0		
340	Hotel	69,278	47	0.872	4.78	1.047	5.74	2.647	14.50	0.502	3	0	1	0	0	0	0	0	1	0		
341	Hotel	89,812	61	1.131	6.20	1.357	7.44	3.431	18.80	0.650	4	0	1	0	0	0	0	0	1	0		
342	Strip Mall	13,660	10	0.374	2.05	0.458	2.51	1.355	7.43	0.257	1	0	21	0	0	0	0	0	5	0		
363	Strip Mall	62,207	46	1.703	9.33	2.088	11.44	6.172	33.82	1.172	6	0	2	0	0	0	0	0	2	0		
365	Strip Mall	124,371	94	3.405	18.66	4.174	22.87	12.339	67.61	2.343	13	0	1	0	0	0	0	0	2	0		
366	Strip Mall	198,818	144	5.444	29.83	6.673	36.56	19.726	108.09	3.746	21	0	1	0	0	0	0	0	4	0		
367	Supermarket	20,926	15	1.290	7.07	1.621	8.88	4.945	27.10	0.937	5	0	6	0	0	0	0	0	6	0		
373	Supermarket	55,362	41	3.413	18.70	4.288	23.50	13.084	71.69	2.480	14	0	4	0	0	0	0	0	10	0		
377	Convenience M	6,500	4	2.814	15.42	3.560	19.51	11.094	60.79	2.095	11	0	2	0	0	0	0	0	4	0		
379	General Office I	14,735	11	0.134	0.73	0.149	0.81	0.412	2.26	0.077	0	0	9	0	0	0	0	0	1	0		
388	General Office I	81,941	61	0.743	4.07	0.827	4.53	2.290	12.55	0.430	2	0	3	0	0	0	0	0	1	0		
391	General Office I	149,746	111	1.357	7.44	1.510	8.28	4.184	22.93	0.786	4	0	2	0	0	0	0	0	2	0		
393	General Office I	253,929	194	2.302	12.61	2.561	14.03	7.096	38.88	1.333	7	0	2	0	0	0	0	0	3	0		
395	General Office I	449,750	337	4.077	22.34	4.537	24.86	12.568	68.86	2.360	13	0	1	0	0	0	0	0	2	0		
396	Government Of	18,423	14	0.796	4.36	0.984	5.39	3.006	16.47	0.567	3	0	7	0	0	0	0	0	4	0		
403	Government Of	79,443	59	3.431	18.80	4.242	23.25	12.961	71.02	2.447	13	0	3	0	0	0	0	0	7	0		
406	Government Of	153,096	115	6.612	36.23	8.176	44.80	24.978	136.86	4.716	26	0	1	0	0	0	0	0	5	0		
407	Government Of	270,616	203	11.687	64.04	14.452	79.19	44.151	241.92	8.336	46	0	1	0	0							

**Appendix C**  
**Operational Emissions Threshold**  
**Option 3: CCAA Reduction**

BAAQMD Emissions Inventory (2010) (tons/day)				CCAA % reduction (over 2010-2020)	BAAQMD Inventory with CCAA Required Reduction (2020) (tons/day)				Difference (CCAA Reduction) (tons/day)			
ROG	NO <sub>x</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>		ROG	NO <sub>x</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>	ROG	NO <sub>x</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>
335.54	449.6	216.13	87.93	38.75%	205.52	275.38	132.38	53.86	130.02	174.22	83.75	34.07

Source: BAAQMD 2009

Mass Emissions Threshold Level (Ton/Yr)				Mitigation Requirement for Projects with Emissions >Threshold Level	Emissions Reduction From Mitigation Between 2010-2020 (Tons/yr)				Emissions Reduction From Mitigation Between 2010-2020 (Tons/day)				% Toward CCAA Requirement			
ROG	NO <sub>x</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>		ROG	NO <sub>x</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>	ROG	NO <sub>x</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>	ROG	NO <sub>x</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>
40	40	15	10	15%	110.2	22.9	186.7	34.4	0.30	0.06	0.51	0.09	0.2%	0.0%	0.6%	0.3%
10	10	100	-	15%	103.3	113.7	3.2	-	0.28	0.31	0.01	-	0.2%	0.2%	0.0%	-
5	5	5	5	15%	151.8	100.8	255.5	55.3	0.42	0.28	0.70	0.15	0.3%	0.2%	0.8%	0.4%
1.8	1.8	1.8	1.8	15%	202.8	149.6	345.7	51.0	0.56	0.41	0.95	0.14	0.4%	0.2%	1.1%	0.4%

## **APPENDIX D**

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GHG Gap Analysis

BAAQMD and ARB GHG Emissions Inventory Data

GHG Mitigation Effectiveness Example

**Table D-1: Gap Analysis, Bay Area Land Use Sector**

Affected Emissions Source	California Legislation	Percent Reduction by 2020(1)	End Use Sector	% of 2020 LU Inventory	2020 LU End Use Sectoral Inventory (MMT)	2020 Reduction (MMT)	% Reduction of Bay Area LU Sector
Mobile	AB 1493 (Pavley 1 and 2)	19.7%	On road transportation (Pass, LD)	45.0%	32.0	6.3	8.9%
	LCFS (On road only)	7.2%	On road transportation (Pass, LD)	45.0%	32.0	2.3	3.2%
	LCFS (On road only)	7.2%	On road transportation (HD/MD)	5.2%	3.7	0.3	0.4%
	HD/MD Efficiency	2.9%	On road transportation (HD/MD)	5.2%	3.7	0.1	0.2%
	Passenger Vehicle Efficiency	2.8%	On road transportation (Pass, LD)	45.0%	32.0	0.9	1.3%
Area	Energy Efficiency - Gas	9.5%	Natural gas (Residential)	10.5%	7.5	0.7	1.0%
			Natural gas (Commercial)	13.1%	9.3	0.9	1.2%
Indirect	RPS (33%)	21.0%	Electricity (exclude Cogen)	25.6%	11.8	2.5	3.5%
	Energy Efficiency - Electricity	15.7%	Electricity	25.6%	18.2	2.9	4.0%
	Solar Roof	1.5%	Electricity (exclude Cogen)	16.6%	11.8	0.2	0.2%
<b>Total credits given to land use-driven emission inventory sectors from Scoping Plan measures</b>				<b>23.9%</b>	<b>71.1</b>	<b>17.0</b>	<b>23.9%</b>
<b>State-wide LU Reduction</b>		<b>Percent</b>	<b>26.2%</b>				
Scoping Plan LU Reduction in Bay		Percent	23.9%				
<b>Bay Area LU Gap</b>		<b>Percent</b>	<b>2.3%</b>				
Bay Area 2020 LU Projection		MMT	71.1				
Bay Area LU Gap		MMT	1.6				
<b>BrightLine LU Threshold (See Appendix E)</b>		<b>MT</b>	<b>1100</b>				
		<b>RPS</b>	<b>%</b>				
		Scoping Plan RPS requirement	33%				
		Existing PG&E 2007 (Qualified RPS amount)	12%				
		Benefit of Scoping Plan	21%				
		SB1078/SB 107	20%				
		Benefit of SB 1078/SB107 alone	8%				

Sources: Reduction Effectiveness for Scoping Plan Measures from AB 32 Scoping Plan (CARB 2008) based on state sectoral reduction levels with exception of RPS. LCFS reduction only includes reduction in on-road "tank to wheel" emissions and excludes life-cycle emissions reductions. RPS reduction based on RPS requirement (33%) and current level of PG&E qualified renewables (12%). Bay Area Land Use Sectoral information from Table D4 in this appendix. State-Wide LU Reduction from Table D2. Bright Line LU Threshold from Table E-2 in Appendix E.



**Table D-2: California 1990, 2002 - 2004, and 2020 GHG Emissions Forecast**

(Forecast last updated: October 2008)

Inventory Summary for Scoping Plan	Emissions (MMTCO <sub>2</sub> E)		
	1990 Emissions	2002-2004 Average	2020 Forecast
<b>Transportation</b>	<b>150.7</b>	<b>179.3</b>	<b>225.4</b>
<b>On Road</b>	<b>138.0</b>	<b>168.7</b>	<b>209.1</b>
- Passenger Vehicles	109.0	133.9	160.8
- Heavy Duty Trucks	29.0	34.7	48.3
<b>Ships &amp; Commercial Boats</b>	<b>2.2</b>	<b>3.3</b>	<b>6.3</b>
<b>Aviation (Intrastate)</b>	<b>5.1</b>	<b>3.2</b>	<b>4.8</b>
<b>Rail</b>	<b>2.3</b>	<b>3</b>	<b>3.8</b>
<b>Unspecified</b>	<b>3.0</b>	<b>1.2</b>	<b>1.4</b>
<b>Electric Power</b>	<b>108.1</b>	<b>109</b>	<b>139.2</b>
<b>In-State Generation</b>	<b>47.5</b>	<b>52.5</b>	<b>87.2</b>
- Natural Gas	36.6	44.2	78.8
- Other Fuels	10.9	8.4	8.4
<b>Imported Electricity</b>	<b>60.6</b>	<b>56.5</b>	<b>52</b>
- Unspecified Imports	31.0	24.3	26.1
- Specified Imports	29.6	32.2	25.9
<b>Commercial and Residential</b>	<b>44.1</b>	<b>41</b>	<b>46.7</b>
<b>Residential Fuel Use</b>	<b>29.7</b>	<b>28.5</b>	<b>32.1</b>
- Natural Gas	27.7	26.9	30.6
- Other Fuels	1.9	1.6	1.5
<b>Commercial Fuel Use</b>	<b>14.0</b>	<b>11.9</b>	<b>14</b>
- Natural Gas	10.7	10.5	12.3
- Other Fuels	3.3	1.4	1.6
<b>Commercial Cogeneration Heat Output</b>	<b>0.4</b>	<b>0.6</b>	<b>0.7</b>
<b>Industrial</b>	<b>97.4</b>	<b>95.9</b>	<b>100.5</b>
<b>Refineries</b>	<b>32.8</b>	<b>35</b>	<b>36.7</b>
<b>General Fuel Use</b>	<b>25.7</b>	<b>21.3</b>	<b>19.8</b>
- Natural Gas	13.7	14	11.7
- Other Fuels	12.0	7.3	8.1
<b>Oil &amp; Gas Extraction</b>	<b>14.7</b>	<b>14.2</b>	<b>14.2</b>
- Fuel Use	13.7	13.4	13.4
- Fugitive Emissions	0.9	0.8	0.7
<b>Cement Plants</b>	<b>8.1</b>	<b>9.7</b>	<b>12.6</b>
- Clinker Production	4.6	5.7	7.6
- Fuel Use	3.5	4.1	5
<b>Cogeneration Heat Output</b>	<b>9.7</b>	<b>9.2</b>	<b>9.3</b>
<b>Other Process Emissions</b>	<b>6.4</b>	<b>6.4</b>	<b>7.9</b>
<b>Recycling and Waste</b>	<b>6.3</b>	<b>5.6</b>	<b>7.7</b>
<b>Landfills</b> <sup>1</sup>	<b>6.3</b>	<b>5.6</b>	<b>7.7</b>
<b>High GWP</b>	<b>3.2</b>	<b>14.7</b>	<b>46.9</b>
<b>Ozone Depleting Substance Substitutes</b>	<b>0.0</b>	<b>12.9</b>	<b>45</b>
<b>Electricity Grid SF<sub>6</sub> Losses</b> <sup>2</sup>	<b>2.6</b>	<b>1</b>	<b>1</b>
<b>Semiconductor Manufacturing</b> <sup>1</sup>	<b>0.6</b>	<b>0.8</b>	<b>0.8</b>
<b>Agriculture</b>	<b>23.4</b>	<b>27.7</b>	<b>29.8</b>
<b>Livestock</b>	<b>11.7</b>	<b>13.9</b>	<b>16.2</b>
- Enteric Fermentation (Digestive Process)	6.7	7	8.2
- Manure Management	5.0	6.9	8
<b>Crop Growing &amp; Harvesting</b>	<b>7.3</b>	<b>9.2</b>	<b>9.2</b>
- Fertilizers	5.0	7.1	7.1
- Soil Preparation and Disturbances	2.1	2	2
- Crop Residue Burning	0.1	0.1	0.1
<b>General Fuel Use</b>	<b>4.5</b>	<b>4.6</b>	<b>4.5</b>
- Diesel	3.4	3.3	3.3
- Natural Gas	0.5	0.7	0.5
- Gasoline	0.4	0.4	0.4
- Other Fuels	0.2	0.2	0.2
<b>Forestry</b>	<b>0.2</b>	<b>0.2</b>	<b>0.2</b>
<b>Wildfire (CH<sub>4</sub> &amp; N<sub>2</sub>O Emissions)</b>	<b>0.2</b>	<b>0.2</b>	<b>0.2</b>
<b>TOTAL GROSS EMISSIONS</b>	<b>433.3</b>	<b>473.5</b>	<b>596.4</b>
<b>Forestry Net Emissions</b>	<b>-6.7</b>	<b>(-4.7)</b>	<b>0</b>
<b>TOTAL NET EMISSIONS</b>	<b>426.6</b>	<b>468.8</b>	<b>596.4</b>

<sup>1</sup> These categories are under the Industrial Sector in ARB's GHG Emission Inventory

<sup>2</sup> This category is under the Electric Power Sector in ARB's GHG Emission Inventory

**Table D-3: California Land Use Sector Emissions**

<b>Sector</b>	<b>1990 Emissions (MMT CO<sub>2</sub>e/yr)</b>	<b>2007 Emissions Projections (MMT CO<sub>2</sub>e/yr )</b>	<b>2020 BAU Emissions Projections (MMT CO<sub>2</sub>e/yr )</b>	<b>% of 2020 Total</b>
<b>Transportation</b>	<b>138.0</b>	<b>168.7</b>	<b>209.1</b>	<b>52%</b>
On-Road Passenger Vehicles	109.0	134.0	160.8	40%
On-Road Heavy Duty	29.0	34.7	48.3	12%
<b>Electric Power</b>	<b>110.6</b>	<b>110.0</b>	<b>140.2</b>	<b>35%</b>
Electricity	95.4	89.0	107.4	27%
Cogen	15.2	21.1	32.8	8%
<b>Commercial and Residential</b>	<b>44.1</b>	<b>41.0</b>	<b>46.7</b>	<b>12%</b>
Residential Fuel Use	29.7	28.5	32.1	8%
Commercial Fuel Use	14.4	12.5	14.6	4%
<b>Recycling and Waste</b>	<b>2.8</b>	<b>3.4</b>	<b>4.2</b>	<b>1%</b>
Domestic Waste Water Treatment	2.8	3.4	4.2	1%
<b>TOTAL GROSS EMISSIONS</b>	<b>295.5</b>	<b>323.1</b>	<b>400.2</b>	
Reductions from 2020 to 1990	<b>104.7</b>			
<b>Percent Reduction</b>	<b>0.3</b>			

Source: CARB 2008

[http://www.arb.ca.gov/cc/inventory/data/tables/arb\\_ghg\\_inventory\\_forecast\\_2008\\_06\\_26.xls](http://www.arb.ca.gov/cc/inventory/data/tables/arb_ghg_inventory_forecast_2008_06_26.xls)

<b>Table D-4: California GHG Efficiency Metric Calculations</b>			
	<b>1990</b>	<b>2002-2004</b>	<b>2020</b>
Population	29,758,213	36,199,342	44,135,923
Employment	14,294,100	16,413,400	20,194,661
Service Population	44,052,313	52,612,742	64,330,584
GHG Emissions (MT)	295,530,000	323,050,000	400,220,000
Per Capita	9.93	8.92	9.07
Per SP	6.71	6.14	6.22
2020 Per Capita Metric			<b>6.70</b>
2020 SP Efficiency Metric			<b>4.59</b>

Sources:

GHG data from Tables in this Appendix.

Population data is from the California Department of Finance and U.S. Census Bureau. Total employment information for 1990 and 2000 is from the U.S. Census. Total civilian employment on an annual (seasonally adjusted basis is from the California Department of Finance).

1990-2000 Population State of California, Department of Finance, E-4 Historical Population Estimates for City, County and the State, 1991-2000, with 1990 and 2000 Census Counts. Sacramento, California, August 2007.

2001-2007 Population State of California, Department of Finance, E-4 Population Estimates for Cities, Counties and the State, 2001-2007, with 2000 Benchmark. Sacramento, California, May 2007.

2000-2050 Population State of California, Department of Finance, Population Projections for California and Its Counties 2000-2050, Sacramento, California, July 2007.

1990 - 2006 Employment California Employment Development Department Labor Market Information Division, (916) 262-2162; U.S. Department of Labor, Bureau of Labor Statistics, (202) 606-6555.

2007 - 2009 Employment Economic Research Unit of the California Department of Finance. Economic Forecasts, U.S. and California. April 2007.

2010-2050 Employment Extrapolated as 46% of projected population (the average over last 15 years)

**Table D-5: Bay Area 1990, 2007, and 2020 GHG Emissions Forecast**

Source: BAAQMD, 2008

Inventory Summary for Scoping Plan	Emissions (MMTCO2E)		
	1990 Emissions	2002-2004 Average	2020 Forecast
<b>Transportation</b>	<b>35.0</b>	<b>44.6</b>	<b>56.6</b>
<b>On Road</b>	<b>26.1</b>	<b>30.8</b>	<b>35.7</b>
Passenger Vehicles	23.0	27.5	32.0
Heavy Duty Trucks	3.1	3.3	3.7
<b>Ships &amp; Commercial Boats</b>	<b>4.1</b>	<b>8.1</b>	<b>13.8</b>
<b>Aviation (Intrastate)</b>	<b>2.5</b>	<b>2.6</b>	<b>3.4</b>
<b>Rail</b>	<b>0.1</b>	<b>0.1</b>	<b>0.1</b>
<b>Off-Road</b>	<b>2.2</b>	<b>2.9</b>	<b>3.6</b>
<b>Electric Power</b>	<b>25.1</b>	<b>15.2</b>	<b>18.2</b>
<b>In-State Generation</b>	<b>16.2</b>	<b>8.1</b>	<b>9.9</b>
Co-Generation	8.6	5.3	6.4
Electricity Generation	7.6	2.8	3.5
<b>Imported Electricity</b>	<b>8.9</b>	<b>7.1</b>	<b>8.3</b>
<b>Residential Fuel Use</b>	<b>5.7</b>	<b>6.8</b>	<b>7.6</b>
Natural Gas	5.4	6.5	7.2
Other Fuels	0.3	0.3	0.4
<b>Industrial/Commercial</b>	<b>20.7</b>	<b>28.9</b>	<b>33.1</b>
Refineries	12.5	14.2	16.0
Cement Plants	0.9	0.8	1.0
Commercial Cooking	0.1	0.1	0.2
Receprocating Engines	0.5	0.6	0.7
Turbines	0.4	0.4	0.4
Natural Gas Combustion Sources	4.2	11.4	13.2
Coke Coal	1.7	1.0	1.2
Other Fuels Combustion	0.4	0.4	0.4
<b>Recycling and Waste</b>	<b>1.9</b>	<b>1.6</b>	<b>1.6</b>
Landfills	1.7	1.2	1.2
Composting/POTW	0.2	0.4	0.4
<b>High GWP</b>	<b>1.1</b>	<b>4.4</b>	<b>9.4</b>
Ozone Depleting Subtitutes/Natural Gas			
Distrib/Other	1.1	4.4	9.4
<b>Agriculture</b>	<b>1.0</b>	<b>1.1</b>	<b>1.1</b>
Agricultural Equipment	0.2	0.2	0.2
Aninmal Waste	0.5	0.6	0.6
Soil Management	0.3	0.3	0.3
Biomass Burning	0.0	0.0	0.0
<b>TOTAL EMISSIONS</b>	<b>90.7</b>	<b>102.6</b>	<b>127.7</b>

Note: Totals may not add due to rounding

**Table D-6: Bay Area Land Use Sector Inventories**

<b>Sector</b>	<b>1990 Emissions (MMT CO<sub>2</sub>e /yr)</b>	<b>2007 Emissions Projections (MMT CO<sub>2</sub>e /yr)</b>	<b>2020 Emissions Projections (MMT CO<sub>2</sub>e /yr)</b>	<b>% of 2020 Total</b>
<b>Transportation</b>	<b>26.1</b>	<b>30.8</b>	<b>35.7</b>	<b>50.2%</b>
On-Road Passenger Vehicles	23.0	27.5	32.0	45.0%
On-Road Heavy Duty	3.1	3.3	3.7	5.2%
<b>Electric Power</b>	<b>25.1</b>	<b>15.2</b>	<b>18.2</b>	<b>25.6%</b>
Electricity	16.5	9.9	11.8	16.6%
Cogen	8.6	5.3	6.4	9.0%
<b>Commercial and Residential</b>	<b>8.9</b>	<b>15.0</b>	<b>16.8</b>	<b>23.6%</b>
Residential Fuel Use	5.8	7.0	7.5	10.5%
Commercial Fuel Use	3.1	8.0	9.3	13.1%
<b>Recycling and Waste<sup>1</sup></b>	<b>0.2</b>	<b>0.4</b>	<b>0.4</b>	<b>0.6%</b>
Domestic Waste Water Treatment	0.2	0.4	0.4	0.6%
<b>SECTORAL EMISSIONS</b>	<b>60.3</b>	<b>61.4</b>	<b>71.1</b>	<b>100.0%</b>

Source: BAAQMD 2008. Source Inventory of Bay Area Greenhouse Gas Emissions

Table D-7: GHG Emissions Modeling and Mitigation Potential

Example Project

Project Type	Number (du)	Default Density (du/ac)	Default Daily trip rate	Unmitigated (Default) Operational Emissions (tpy)			
				Source	ROG	NOX	CO2
Residential (low-rise apt)	160	16	6.90	Area	2.59	0.28	365.93
				Mobile	1.61	2.04	1,603.02
				Indirect	-	-	307.00
				<b>Total</b>	<b>4.20</b>	<b>2.32</b>	<b>2,275.95</b>

Project Type	Number (du)	Project-Specific Density (du/ac)	Daily trip rate	Mitigated* (Project-Specific Attribute) Operational Emissions (tpy)				Mitigated** Operational Emissions (tpy)				Mitigated*** (w/ parking reduction) Operational Emissions (tpy)			
				Source	ROG	NOX	CO2	Source	ROG	NOX	CO2	Source	ROG	NOX	CO2
Residential (low-rise apt)	160	20	6.57	Area	2.59	0.28	365.93	Area	2.58	0.24	309.70	Area	2.58	0.24	309.70
				Mobile	1.54	1.94	1,526.32	Mobile	1.29	1.57	1,237.76	Mobile	1.18	1.44	1,134.61
				Indirect	-	-	307.00	Indirect	-	-	245.60	Indirect	-	-	245.60
				<b>Total</b>	<b>4.13</b>	<b>2.22</b>	<b>1,892.25</b>	<b>Total</b>	<b>3.87</b>	<b>1.81</b>	<b>1,547.46</b>	<b>Total</b>	<b>3.76</b>	<b>1.68</b>	<b>1,444.31</b>

% mitigation    -2%    -4%    -17%    % mitigation    -8%    -22%    -32%    % mitigation    -10%    -28%    -37%

Assumptions (all scenarios):

urban trip length

Mitigation Assumptions:

\*Includes only one reduction associated with the project's density which is higher than the model default for this land use type in URBEMIS (resulted in a lower daily trip rate

\*\*LRT headways of 15 minutes for 24 hours/day w/in 1/2 mile; 96 stops/day (4.08% reduction)

Local serving retail (2% reduction)

Bike/Ped facilities on 100% of intersections, sidewalks on both sides of 100% of streets , 60% roadway network connectivity (6.3% reduction)

Affordable Housing: 15% of units deed-restricted (0.6% reduction)

Title 24: 20% above Title 24 requirements

Generate 20% of electricity through on-site renewable sources (e.g., solar)

% reduction    parking provided    ITE peak demand

\*\*\* All the above + Parking f    8%    1 space/du

UREBEMIS Supporting Data is provided in following pages

Page: 1

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Urbemis 2007 Version 9.2.4

Combined Annual Emissions Reports (Tons/Year)

File Name: C:\Documents and Settings\phillipsh\Application Data\Urbemis\Version9a\Projects\BAAQMD\BAAQMD test.urb924

Project Name: BAAQMD test

Project Location: Bay Area Air District

On-Road Vehicle Emissions Based on: Version : Emfac2007 V2.3 Nov 1 2006

Off-Road Vehicle Emissions Based on: OFFROAD2007

Summary Report:

AREA SOURCE EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (tons/year, unmitigated)	2.59	0.28	3.63	0.01	0.54	0.52	365.93
TOTALS (tons/year, mitigated)	2.58	0.24	3.61	0.01	0.54	0.52	309.70
Percent Reduction	0.39	14.29	0.55	0.00	0.00	0.00	15.37

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (tons/year, unmitigated)	1.54	1.94	17.79	0.02	2.82	0.54	1,526.35
TOTALS (tons/year, mitigated)	1.29	1.57	14.43	0.01	2.29	0.44	1,237.76
Percent Reduction	16.23	19.07	18.89	50.00	18.79	18.52	18.91

SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (tons/year, unmitigated)	4.13	2.22	21.42	0.03	3.36	1.06	1,892.28
TOTALS (tons/year, mitigated)	3.87	1.81	18.04	0.02	2.83	0.96	1,547.46
Percent Reduction	6.30	18.47	15.78	33.33	15.77	9.43	18.22



Area Source Unmitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Annual Tons Per Year, Unmitigated

<u>Source</u>	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
Natural Gas	0.02	0.22	0.09	0.00	0.00	0.00	281.13
Hearth	0.93	0.06	3.40	0.01	0.54	0.52	84.55
Landscape	0.01	0.00	0.14	0.00	0.00	0.00	0.25
Consumer Products	1.43						
Architectural Coatings	0.20						
TOTALS (tons/year, unmitigated)	2.59	0.28	3.63	0.01	0.54	0.52	365.93

Area Source Mitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Annual Tons Per Year, Mitigated

<u>Source</u>	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
Natural Gas	0.01	0.18	0.07	0.00	0.00	0.00	224.90
Hearth	0.93	0.06	3.40	0.01	0.54	0.52	84.55
Landscape	0.01	0.00	0.14	0.00	0.00	0.00	0.25
Consumer Products	1.43						
Architectural Coatings	0.20						
TOTALS (tons/year, mitigated)	2.58	0.24	3.61	0.01	0.54	0.52	309.70

Area Source Changes to Defaults

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Operational Unmitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Annual Tons Per Year, Unmitigated

Source	ROG	NOX	CO	SO2	PM10	PM25	CO2
Apartments low rise	1.54	1.94	17.79	0.02	2.82	0.54	1,526.35
TOTALS (tons/year, unmitigated)	1.54	1.94	17.79	0.02	2.82	0.54	1,526.35

Operational Mitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Annual Tons Per Year, Mitigated

Source	ROG	NOX	CO	SO2	PM10	PM25	CO2
Apartments low rise	1.29	1.57	14.43	0.01	2.29	0.44	1,237.76
TOTALS (tons/year, mitigated)	1.29	1.57	14.43	0.01	2.29	0.44	1,237.76

Operational Settings:

Does not include correction for passby trips

Does not include double counting adjustment for internal trips

Analysis Year: 2011 Season: Annual

Emfac: Version : Emfac2007 V2.3 Nov 1 2006

Summary of Land Uses

Land Use Type	Acreage	Trip Rate	Unit Type	No. Units	Total Trips	Total VMT
Apartments low rise	8.00	6.57	dwelling units	160.00	1,051.20	8,987.45
					1,051.20	8,987.45

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	53.8	0.9	98.7	0.4

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Truck < 3750 lbs	12.8	1.6	95.3	3.1
Light Truck 3751-5750 lbs	19.8	0.5	99.5	0.0
Med Truck 5751-8500 lbs	6.6	0.0	100.0	0.0
Lite-Heavy Truck 8501-10,000 lbs	0.9	0.0	77.8	22.2
Lite-Heavy Truck 10,001-14,000 lbs	0.6	0.0	50.0	50.0
Med-Heavy Truck 14,001-33,000 lbs	1.0	0.0	20.0	80.0
Heavy-Heavy Truck 33,001-60,000 lbs	0.4	0.0	0.0	100.0
Other Bus	0.1	0.0	0.0	100.0
Urban Bus	0.1	0.0	0.0	100.0
Motorcycle	3.2	62.5	37.5	0.0
School Bus	0.1	0.0	0.0	100.0
Motor Home	0.6	0.0	83.3	16.7

Travel Conditions

	Residential			Commuter	Commercial	
	Home-Work	Home-Shop	Home-Other		Non-Work	Customer
Urban Trip Length (miles)	10.8	7.3	7.5	9.5	7.4	7.4
Rural Trip Length (miles)	16.8	7.1	7.9	14.7	6.6	6.6
Trip speeds (mph)	35.0	35.0	35.0	35.0	35.0	35.0
% of Trips - Residential	32.9	18.0	49.1			

% of Trips - Commercial (by land use)

## **APPENDIX E**

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GHG Emissions Modeling and Threshold Sensitivity Analysis

Table E-1: 2020 Summary of Emissions by Urbemis Category

Average Project Size (sq ft)	Single Family	Apartments Low Rise	Apartment Mid Rise	Apartment High Rise	Condo/Townhouse General + High Rise	Congregate Care (Assisted Living) Facility)
< 50,000	13,581	19,196	36,229		19,977	5,997
50,000	72,914	63,135	70,194	94,057	84,260	21,446
100,000	162,188	90,241	140,920	129,764	170,275	49,166
200,000	283,179		254,225	266,322	344,939	
400,000	375,822		381,737	363,340		
600,000	987,852			592,213		
800,000	1,160,504					
1,000,000	1,951,096			1,733,443		
2,000,000	6,507,269					

Average Project Size (sq ft)	Elementary School	University/ College (4 years)	Place of Worship	Hotel	Free-Standing Discount Store	Strip Mall
< 50,000	5,859	16,573	21,230	8,013	15,336	13,660
50,000	18,765		92,499		69,278	62,207
100,000	43,162		103,892		89,812	124,371
200,000	45,748					198,818
400,000						
600,000						
800,000						
1,000,000						
2,000,000						

Average Project Size (sq ft)	Supermarket	Convenience Market (24 hour)	General office Building	Government Office Building	Pharmacy/Drugstore without Drive-through	Hospital
< 50,000	20,926	6,500	14,735	18,423	14,750	35,837
50,000	55,362		81,941	79,443		60,942
100,000			149,746	153,096		130,377
200,000			253,929	270,616		140,915
400,000			449,750			
600,000						
800,000						
1,000,000						
2,000,000						

Average Project Size (sq ft)	Warehouse	General Light Industry	General Heavy Industry			
< 50,000	25,489	15,036				
50,000	68,963	73,119				
100,000	142,590	76,001				
200,000		318,980				
400,000	341,487					
600,000	422,010					
800,000						
1,000,000	1,483,499					
2,000,000						





Table E-4: GHG Land Use Sector Threshold Sensitivity Analysis

Threshold (MT)	110	Housing equiv.	6	units	Projects Captured	96%						
Mitigation Effectiveness	25%	10-year total	2.0	MMT	Emissions Captured	100%						
Performance Standard	0%	1-year total	200,108	MT								
Project Type (Urbemis Category)	SF	Units	Direct CO2e	Indirect CO2e	Total CO2e /Project	CO2e/unit or SF	Projects	Total CO2e	CO2e Reductions	% reduction	Capture - Projects	Capture - Emissions
1 Single Family H	13,581	8	118	19.3	137.3	17.2	35	4,806	956	0.0%	35	4,806
36 Single Family H	72,914	41	636	103.6	739.6	18.0	7	5,177	1,294	25.0%	7	5,177
43 Single Family H	162,188	90	1,414	230.5	1644.5	18.3	4	6,578	1,645	25.0%	4	6,578
47 Single Family H	283,179	157	2,469	402.5	2871.5	18.3	5	14,358	3,589	25.0%	5	14,358
52 Single Family H	375,822	209	3,277	534.2	3811.2	18.2	2	7,622	1,906	25.0%	2	7,622
54 Single Family H	987,852	549	8,615	1404.2	10019.2	18.2	1	10,019	2,505	25.0%	1	10,019
55 Single Family H	1,160,504	645	10,120	1649.6	11769.6	18.2	1	11,770	2,942	25.0%	1	11,770
56 Single Family H	1,951,096	1084	17,015	2773.4	19788.4	18.3	1	19,788	4,947	25.0%	1	19,788
57 Single Family H	6,507,269	3615	56,747	9249.8	65996.8	18.3	2	131,994	32,998	25.0%	2	131,994
59 Apartments Low	19,196	23	251	57.8	308.8	13.4	3	926	232	25.0%	3	926
62 Apartments Low	63,135	74	825	190	1015	13.7	1	1,015	254	25.0%	1	1,015
63 Apartments Low	90,241	106	1,179	271.6	1450.6	13.7	1	1,451	363	25.0%	1	1,451
64 Apartments Mi	36,229	43	410	109.1	519.1	12.1	1	519	130	25.0%	1	519
65 Apartments Mi	70,194	83	794	211.3	1005.3	12.1	3	3,016	754	25.0%	3	3,016
68 Apartments Mi	140,920	166	1,593	424.2	2017.2	12.2	4	8,069	2,017	25.0%	4	8,069
72 Apartments Mi	254,225	299	2,874	765.3	3639.3	12.2	3	10,918	2,729	25.0%	3	10,918
75 Apartments Mi	381,737	449	4,316	1149.1	5465.1	12.2	2	10,930	2,733	25.0%	2	10,930
77 Apartments Hig	94,057	111	996	283.1	1279.1	11.5	1	1,279	320	25.0%	1	1,279
78 Apartments Hig	129,764	153	1,374	390.6	1764.6	11.5	2	3,529	882	25.0%	2	3,529
80 Apartments Hig	266,322	313	2,819	801.7	3620.7	11.6	2	7,241	1,810	25.0%	2	7,241
82 Apartments Hig	363,340	427	3,846	1093.7	4939.7	11.6	1	4,940	1,235	25.0%	1	4,940
83 Apartments Hig	592,213	697	6,269	1782.6	8051.6	11.6	1	8,052	2,013	25.0%	1	8,052
84 Apartments Hig	1,733,443	2039	18,350	5217.9	23567.9	11.6	1	23,568	5,892	25.0%	1	23,568
85 Condo/Townho	19,977	24	261	60.1	321.1	13.4	10	3,211	803	25.0%	10	3,211
95 Condo/Townho	84,260	99	1,099	253.6	1352.6	13.7	2	2,705	676	25.0%	2	2,705
97 Condo/Townho	170,275	200	2,221	512.6	2733.6	13.7	2	5,467	1,367	25.0%	2	5,467
99 Condo/Townho	344,939	406	4,500	1038.3	5538.3	13.6	2	11,077	2,769	25.0%	2	11,077
101 Congregate Car	5,997	7	33	18.1	51.1	7.3	17	869	0	0.0%	0	0
118 Congregate Car	21,446	25	119	64.6	183.6	7.3	2	367	92	25.0%	2	367
120 Congregate Car	49,166	58	272	148	420	7.2	13	5,460	1,365	25.0%	13	5,460
133 Elementary Sch	5,859		112	35.9	147.9	25.2	26	3,845	961	25.0%	26	3,845
159 Elementary Sch	18,765		358	114.9	472.9	25.2	6	2,837	709	25.0%	6	2,837
165 Elementary Sch	43,162		823	264.3	1087.3	25.2	2	2,175	544	25.0%	2	2,175
167 Elementary Sch	45,748		873	280.1	1153.1	25.2	1	1,153	288	25.0%	1	1,153
168 University/Colle	16,573		517	101.5	618.5	37.3	1	619	155	25.0%	1	619
169 Place of Worsh	21,230		258	130	388	18.3	7	2,716	679	25.0%	7	2,716
176 Place of Worsh	92,499		1,126	566.3	1692.3	18.3	1	1,692	423	25.0%	1	1,692
177 Place of Worsh	103,892		1,264	636.1	1900.1	18.3	1	1,900	475	25.0%	1	1,900
178 High Turnover (	8,013		1,168	49.1	1217.1	151.9	160	194,736	48,684	25.0%	160	194,736
338 Hotel	15,336		333	93.9	426.9	27.8	2	854	213	25.0%	2	854
340 Hotel	69,278		1,504	424.1	1928.1	27.8	1	1,928	482	25.0%	1	1,928
341 Hotel	89,812		1,950	549.9	2499.9	27.8	1	2,500	625	25.0%	1	2,500
342 Strip Mall	13,660		684	83.6	767.6	56.2	21	16,120	4,030	25.0%	21	16,120
363 Strip Mall	62,207		3,114	380.9	3494.9	56.2	2	6,990	1,747	25.0%	2	6,990
365 Strip Mall	124,371		6,225	761.5	6986.5	56.2	1	6,987	1,747	25.0%	1	6,987
366 Strip Mall	198,818		9,951	1217.2	11168.2	56.2	1	11,168	2,792	25.0%	1	11,168
367 Supermarket	20,926		2,438	128.1	2566.1	122.6	6	15,397	3,849	25.0%	6	15,397
373 Supermarket	55,362		6,450	338.9	6788.9	122.6	4	27,156	6,789	25.0%	4	27,156
377 Convenience M	6,500		5,388	39.8	5427.8	835.0	2	10,856	2,714	25.0%	2	10,856
379 General Office	14,735		220	90.2	310.2	21.1	9	2,792	698	25.0%	9	2,792
388 General Office	81,941		1,224	501.7	1725.7	21.1	3	5,177	1,294	25.0%	3	5,177
391 General Office	149,746		2,237	916.8	3153.8	21.1	2	6,308	1,577	25.0%	2	6,308
393 General Office	253,929		3,793	1554.7	5347.7	21.1	2	10,695	2,674	25.0%	2	10,695
395 General Office	449,750		6,717	2753.6	9470.6	21.1	1	9,471	2,368	25.0%	1	9,471
396 Government Of	18,423		1,483	112.8	1595.8	86.6	7	11,171	2,793	25.0%	7	11,171
403 Government Of	79,443		6,395	486.4	6881.4	86.6	3	20,644	5,161	25.0%	3	20,644
406 Government Of	153,096		12,324	937.3	13261.3	86.6	1	13,261	3,315	25.0%	1	13,261
407 Government Of	270,616		21,784	1656.8	23440.8	86.6	1	23,441	5,860	25.0%	1	23,441
408 Pharmacy/Drug	14,750		1,459	90.3	1549.3	105.0	4	6,197	1,549	25.0%	4	6,197
412 Hospital	35,837		804	219.4	1023.4	28.6	1	1,023	256	25.0%	1	1,023
413 Hospital	60,942		1,367	373.1	1740.1	28.6	1	1,740	435	25.0%	1	1,740
414 Hospital	130,377		2,924	798.2	3722.2	28.5	1	3,722	931	25.0%	1	3,722
415 Hospital	140,915		3,160	862.7	4022.7	28.5	1	4,023	1,006	25.0%	1	4,023
416 Warehouse	25,489		161	156.1	317.1	12.4	6	1,903	476	25.0%	6	1,903
422 Warehouse	68,963		435	422.2	857.2	12.4	3	2,572	643	25.0%	3	2,572
425 Warehouse	142,590		899	873	1772	12.4	2	3,544	886	25.0%	2	3,544
427 Warehouse	341,487		2,154	2090.7	4244.7	12.4	1	4,245	1,061	25.0%	1	4,245
428 Warehouse	422,010		2,662	2583.7	5245.7	12.4	1	5,246	1,311	25.0%	1	5,246
429 Warehouse	1,483,499		9,357	9082.6	18439.6	12.4	1	18,440	4,610	25.0%	1	18,440
430 General Light In	15,036		145	92.1	237.1	15.8	4	948	237	25.0%	4	948
434 General Light In	73,119		704	447.7	1151.7	15.8	1	1,152	288	25.0%	1	1,152
435 General Light In	76,001		732	465.3	1197.3	15.8	1	1,197	299	25.0%	1	1,197
436 General Light In	318,980		3,073	1952.9	5025.9	15.8	1	5,026	1,256	25.0%	1	5,026
<b>TOTAL</b>							<b>436</b>	<b>802,284</b>	<b>200,108</b>	<b>24.8%</b>	<b>419</b>	<b>801,415</b>
Threshold											<b>96.10%</b>	<b>99.89%</b>



Table E-5: GHG Land Use Sector Threshold Sensitivity Analysis

Threshold (MT)	1225	Housing equiv.	67	units	Projects Captured	21%						
Mitigation Effectiveness	30%	10-year total	1.6	MMT	Emissions Captured	67%						
Performance Standard	0%	1-year total	159,276	MT								
Project Type (Urbemis Category)	SF	Units	Direct CO2e	Indirect CO2e	Total CO2e /Project	CO2e/unit or SF	Projects	Total CO2e	CO2e Reductions	% reduction	Capture - Projects	Capture - Emissions
1 Single Family H	13,581	8	118	19.3	137.3	17.2	35	4,806	0	0.0%	0	0
36 Single Family H	72,914	41	636	103.6	739.6	18.0	7	5,177	0	0.0%	0	0
43 Single Family H	162,188	90	1,414	230.5	1644.5	18.3	4	6,578	1,678	25.5%	4	6,578
47 Single Family H	283,179	157	2,469	402.5	2871.5	18.3	5	14,358	4,307	30.0%	5	14,358
52 Single Family H	375,822	209	3,277	534.2	3811.2	18.2	2	7,622	2,287	30.0%	2	7,622
54 Single Family H	987,852	549	8,615	1404.2	10019.2	18.2	1	10,019	3,006	30.0%	1	10,019
55 Single Family H	1,160,504	645	10,120	1649.6	11769.6	18.2	1	11,770	3,531	30.0%	1	11,770
56 Single Family H	1,951,096	1084	17,015	2773.4	19788.4	18.3	1	19,788	5,937	30.0%	1	19,788
57 Single Family H	6,507,269	3615	56,747	9249.8	65996.8	18.3	2	131,994	39,598	30.0%	2	131,994
59 Apartments Low	19,196	23	251	57.8	308.8	13.4	3	926	0	0.0%	0	0
62 Apartments Low	63,135	74	825	190	1015	13.7	1	1,015	0	0.0%	0	0
63 Apartments Low	90,241	106	1,179	271.6	1450.6	13.7	1	1,451	226	0.0%	1	1,451
64 Apartments Mi	36,229	43	410	109.1	519.1	12.1	1	519	0	0.0%	0	0
65 Apartments Mi	70,194	83	794	211.3	1005.3	12.1	3	3,016	0	0.0%	0	0
68 Apartments Mi	140,920	166	1,593	424.2	2017.2	12.2	4	8,069	2,421	30.0%	4	8,069
72 Apartments Mi	254,225	299	2,874	765.3	3639.3	12.2	3	10,918	3,275	30.0%	3	10,918
75 Apartments Mi	381,737	449	4,316	1149.1	5465.1	12.2	2	10,930	3,279	30.0%	2	10,930
77 Apartments Hig	94,057	111	996	283.1	1279.1	11.5	1	1,279	54	0.0%	1	1,279
78 Apartments Hig	129,764	153	1,374	390.6	1764.6	11.5	2	3,529	1,059	30.0%	2	3,529
80 Apartments Hig	266,322	313	2,819	801.7	3620.7	11.6	2	7,241	2,172	30.0%	2	7,241
82 Apartments Hig	363,340	427	3,846	1093.7	4939.7	11.6	1	4,940	1,482	30.0%	1	4,940
83 Apartments Hig	592,213	697	6,269	1782.6	8051.6	11.6	1	8,052	2,415	30.0%	1	8,052
84 Apartments Hig	1,733,443	2039	18,350	5217.9	23567.9	11.6	1	23,568	7,070	30.0%	1	23,568
85 Condo/Townho	19,977	24	261	60.1	321.1	13.4	10	3,211	0	0.0%	0	0
95 Condo/Townho	84,260	99	1,099	253.6	1352.6	13.7	2	2,705	255	0.0%	2	2,705
97 Condo/Townho	170,275	200	2,221	512.6	2733.6	13.7	2	5,467	1,640	30.0%	2	5,467
99 Condo/Townho	344,939	406	4,500	1038.3	5538.3	13.6	2	11,077	3,323	30.0%	2	11,077
101 Congregate Car	5,997	7	33	18.1	51.1	7.3	17	869	0	0.0%	0	0
118 Congregate Car	21,446	25	119	64.6	183.6	7.3	2	367	0	0.0%	0	0
120 Congregate Car	49,166	58	272	148	420	7.2	13	5,460	0	0.0%	0	0
133 Elementary Sch	5,859		112	35.9	147.9	25.2	26	3,845	0	0.0%	0	0
159 Elementary Sch	18,765		358	114.9	472.9	25.2	6	2,837	0	0.0%	0	0
165 Elementary Sch	43,162		823	264.3	1087.3	25.2	2	2,175	0	0.0%	0	0
167 Elementary Sch	45,748		873	280.1	1153.1	25.2	1	1,153	0	0.0%	0	0
168 University/Colle	16,573		517	101.5	618.5	37.3	1	619	0	0.0%	0	0
169 Place of Worsh	21,230		258	130	388	18.3	7	2,716	0	0.0%	0	0
176 Place of Worsh	92,499		1,126	566.3	1692.3	18.3	1	1,692	467	27.6%	1	1,692
177 Place of Worsh	103,892		1,264	636.1	1900.1	18.3	1	1,900	570	30.0%	1	1,900
178 High Turnover (	8,013		1,168	49.1	1217.1	151.9	160	194,736	0	0.0%	0	0
338 Hotel	15,336		333	93.9	426.9	27.8	2	854	0	0.0%	0	0
340 Hotel	69,278		1,504	424.1	1928.1	27.8	1	1,928	578	30.0%	1	1,928
341 Hotel	89,812		1,950	549.9	2499.9	27.8	1	2,500	750	30.0%	1	2,500
342 Strp Mall	13,660		684	83.6	767.6	56.2	21	16,120	0	0.0%	0	0
363 Strp Mall	62,207		3,114	380.9	3494.9	56.2	2	6,990	2,097	30.0%	2	6,990
365 Strp Mall	124,371		6,225	761.5	6986.5	56.2	1	6,987	2,096	30.0%	1	6,987
366 Strp Mall	198,818		9,951	1217.2	11168.2	56.2	1	11,168	3,350	30.0%	1	11,168
367 Supermarket	20,926		2,438	128.1	2566.1	122.6	6	15,397	4,619	30.0%	6	15,397
373 Supermarket	55,362		6,450	338.9	6788.9	122.6	4	27,156	8,147	30.0%	4	27,156
377 Convenience M	6,500		5,388	39.8	5427.8	835.0	2	10,856	3,257	30.0%	2	10,856
379 General Office	14,735		220	90.2	310.2	21.1	9	2,792	0	0.0%	0	0
388 General Office	81,941		1,224	501.7	1725.7	21.1	3	5,177	1,502	29.0%	3	5,177
391 General Office	149,746		2,237	916.8	3153.8	21.1	2	6,308	1,892	30.0%	2	6,308
393 General Office	253,929		3,793	1554.7	5347.7	21.1	2	10,695	3,209	30.0%	2	10,695
395 General Office	449,750		6,717	2753.6	9470.6	21.1	1	9,471	2,841	30.0%	1	9,471
396 Government Of	18,423		1,483	112.8	1595.8	86.6	7	11,171	2,596	23.2%	7	11,171
403 Government Of	79,443		6,395	486.4	6881.4	86.6	3	20,644	6,193	30.0%	3	20,644
406 Government Of	153,096		12,324	937.3	13261.3	86.6	1	13,261	3,978	30.0%	1	13,261
407 Government Of	270,616		21,784	1656.8	23440.8	86.6	1	23,441	7,032	30.0%	1	23,441
408 Pharmacy/Drug	14,750		1,459	90.3	1549.3	105.0	4	6,197	1,297	0.0%	4	6,197
412 Hospital	35,837		804	219.4	1023.4	28.6	1	1,023	0	0.0%	0	0
413 Hospital	60,942		1,367	373.1	1740.1	28.6	1	1,740	515	29.6%	1	1,740
414 Hospital	130,377		2,924	798.2	3722.2	28.5	1	3,722	1,117	30.0%	1	3,722
415 Hospital	140,915		3,160	862.7	4022.7	28.5	1	4,023	1,207	30.0%	1	4,023
416 Warehouse	25,489		161	156.1	317.1	12.4	6	1,903	0	0.0%	0	0
422 Warehouse	68,963		435	422.2	857.2	12.4	3	2,572	0	0.0%	0	0
425 Warehouse	142,590		899	873	1772	12.4	2	3,544	1,063	30.0%	2	3,544
427 Warehouse	341,487		2,154	2090.7	4244.7	12.4	1	4,245	1,273	30.0%	1	4,245
428 Warehouse	422,010		2,662	2583.7	5245.7	12.4	1	5,246	1,574	30.0%	1	5,246
429 Warehouse	1,483,499		9,357	9082.6	18439.6	12.4	1	18,440	5,532	30.0%	1	18,440
430 General Light In	15,036		145	92.1	237.1	15.8	4	948	0	0.0%	0	0
434 General Light In	73,119		704	447.7	1151.7	15.8	1	1,152	0	0.0%	0	0
435 General Light In	76,001		732	465.3	1197.3	15.8	1	1,197	0	0.0%	0	0
436 General Light In	318,980		3,073	1952.9	5025.9	15.8	1	5,026	1,508	30.0%	1	5,026
<b>TOTAL</b>							<b>436</b>	<b>802,284</b>	<b>159,276</b>	<b>19.6%</b>	<b>93</b>	<b>540,277</b>
Threshold											<b>21.33%</b>	<b>67.34%</b>

Table E-6: GHG Land Use Sector Threshold Sensitivity Analysis

Threshold (MT)	1100		Housing equiv.	60	units	Projects Captured	59%					
Mitigation Effectiveness	26%		10-year total	1.6	MMT	Emissions Captured	92%					
Performance Standard	0%		1-year total	159,877	MT							
Project Type (Urbemis Category)	SF	Units	Direct CO2e	Indirect CO2e	Total CO2e /Project	CO2e/unit or SF	Projects	Total CO2e	CO2e Reductions	% reduction	Capture - Projects	Capture - Emissions
1 Single Family H	13,581	8	118	19.3	137.3	17.2	35	4,806	0	0.0%	0	0
36 Single Family H	72,914	41	636	103.6	739.6	18.0	7	5,177	0	0.0%	0	0
43 Single Family H	162,188	90	1,414	230.5	1644.5	18.3	4	6,578	1,721	26.2%	4	6,578
47 Single Family H	283,179	157	2,469	402.5	2871.5	18.3	5	14,358	3,756	26.2%	5	14,358
52 Single Family H	375,822	209	3,277	534.2	3811.2	18.2	2	7,622	1,994	26.2%	2	7,622
54 Single Family H	987,852	549	8,615	1404.2	10019.2	18.2	1	10,019	2,621	26.2%	1	10,019
55 Single Family H	1,160,504	645	10,120	1649.6	11769.6	18.2	1	11,770	3,079	26.2%	1	11,770
56 Single Family H	1,951,096	1084	17,015	2773.4	19788.4	18.3	1	19,788	5,176	26.2%	1	19,788
57 Single Family H	6,507,269	3615	56,747	9249.8	65996.8	18.3	2	131,994	34,527	26.2%	2	131,994
59 Apartments Low	19,196	23	251	57.8	308.8	13.4	3	926	0	0.0%	0	0
62 Apartments Low	63,135	74	825	190	1015	13.7	1	1,015	0	0.0%	0	0
63 Apartments Low	90,241	106	1,179	271.6	1450.6	13.7	1	1,451	351	24.2%	1	1,451
64 Apartments Mi	36,229	43	410	109.1	519.1	12.1	1	519	0	0.0%	0	0
65 Apartments Mi	70,194	83	794	211.3	1005.3	12.1	3	3,016	0	0.0%	0	0
68 Apartments Mi	140,920	166	1,593	424.2	2017.2	12.2	4	8,069	2,111	26.2%	4	8,069
72 Apartments Mi	254,225	299	2,874	765.3	3639.3	12.2	3	10,918	2,856	26.2%	3	10,918
75 Apartments Mi	381,737	449	4,316	1149.1	5465.1	12.2	2	10,930	2,859	26.2%	2	10,930
77 Apartments Hig	94,057	111	996	283.1	1279.1	11.5	1	1,279	179	0.0%	1	1,279
78 Apartments Hig	129,764	153	1,374	390.6	1764.6	11.5	2	3,529	923	26.2%	2	3,529
80 Apartments Hig	266,322	313	2,819	801.7	3620.7	11.6	2	7,241	1,894	26.2%	2	7,241
82 Apartments Hig	363,340	427	3,846	1093.7	4939.7	11.6	1	4,940	1,292	26.2%	1	4,940
83 Apartments Hig	592,213	697	6,269	1782.6	8051.6	11.6	1	8,052	2,106	26.2%	1	8,052
84 Apartments Hig	1,733,443	2039	18,350	5217.9	23567.9	11.6	1	23,568	6,165	26.2%	1	23,568
85 Condo/Townho	19,977	24	261	60.1	321.1	13.4	10	3,211	0	0.0%	0	0
95 Condo/Townho	84,260	99	1,099	253.6	1352.6	13.7	2	2,705	505	0.0%	2	2,705
97 Condo/Townho	170,275	200	2,221	512.6	2733.6	13.7	2	5,467	1,430	26.2%	2	5,467
99 Condo/Townho	344,939	406	4,500	1038.3	5538.3	13.6	2	11,077	2,897	26.2%	2	11,077
101 Congregate Car	5,997	7	33	18.1	51.1	7.3	17	869	0	0.0%	0	0
118 Congregate Car	21,446	25	119	64.6	183.6	7.3	2	367	0	0.0%	0	0
120 Congregate Car	49,166	58	272	148	420	7.2	13	5,460	0	0.0%	0	0
133 Elementary Sch	5,859		112	35.9	147.9	25.2	26	3,845	0	0.0%	0	0
159 Elementary Sch	18,765		358	114.9	472.9	25.2	6	2,837	0	0.0%	0	0
165 Elementary Sch	43,162		823	264.3	1087.3	25.2	2	2,175	0	0.0%	0	0
167 Elementary Sch	45,748		873	280.1	1153.1	25.2	1	1,153	53	0.0%	1	1,153
168 University/Colle	16,573		517	101.5	618.5	37.3	1	619	0	0.0%	0	0
169 Place of Worsh	21,230		258	130	388	18.3	7	2,716	0	0.0%	0	0
176 Place of Worsh	92,499		1,126	566.3	1692.3	18.3	1	1,692	443	26.2%	1	1,692
177 Place of Worsh	103,892		1,264	636.1	1900.1	18.3	1	1,900	497	26.2%	1	1,900
178 High Turnover (	8,013		1,168	49.1	1217.1	151.9	160	194,736	18,736	0.0%	160	194,736
338 Hotel	15,336		333	93.9	426.9	27.8	2	854	0	0.0%	0	0
340 Hotel	69,278		1,504	424.1	1928.1	27.8	1	1,928	504	26.2%	1	1,928
341 Hotel	89,812		1,950	549.9	2499.9	27.8	1	2,500	654	26.2%	1	2,500
342 Strip Mall	13,660		684	83.6	767.6	56.2	21	16,120	0	0.0%	0	0
363 Strip Mall	62,207		3,114	380.9	3494.9	56.2	2	6,990	1,828	26.2%	2	6,990
365 Strip Mall	124,371		6,225	761.5	6986.5	56.2	1	6,987	1,828	26.2%	1	6,987
366 Strip Mall	198,818		9,951	1217.2	11168.2	56.2	1	11,168	2,921	26.2%	1	11,168
367 Supermarket	20,926		2,438	128.1	2566.1	122.6	6	15,397	4,027	26.2%	6	15,397
373 Supermarket	55,362		6,450	338.9	6788.9	122.6	4	27,156	7,103	26.2%	4	27,156
377 Convenience M	6,500		5,388	39.8	5427.8	835.0	2	10,856	2,840	26.2%	2	10,856
379 General Office	14,735		220	90.2	310.2	21.1	9	2,792	0	0.0%	0	0
388 General Office	81,941		1,224	501.7	1725.7	21.1	3	5,177	1,354	26.2%	3	5,177
391 General Office	149,746		2,237	916.8	3153.8	21.1	2	6,308	1,650	26.2%	2	6,308
393 General Office	253,929		3,793	1554.7	5347.7	21.1	2	10,695	2,798	26.2%	2	10,695
395 General Office	449,750		6,717	2753.6	9470.6	21.1	1	9,471	2,477	26.2%	1	9,471
396 Government Of	18,423		1,483	112.8	1595.8	86.6	7	11,171	2,922	26.2%	7	11,171
403 Government Of	79,443		6,395	486.4	6881.4	86.6	3	20,644	5,400	26.2%	3	20,644
406 Government Of	153,096		12,324	937.3	13261.3	86.6	1	13,261	3,469	26.2%	1	13,261
407 Government Of	270,616		21,784	1656.8	23440.8	86.6	1	23,441	6,132	26.2%	1	23,441
408 Pharmacy/Drug	14,750		1,459	90.3	1549.3	105.0	4	6,197	1,621	26.2%	4	6,197
412 Hospital	35,837		804	219.4	1023.4	28.6	1	1,023	0	0.0%	0	0
413 Hospital	60,942		1,367	373.1	1740.1	28.6	1	1,740	455	26.2%	1	1,740
414 Hospital	130,377		2,924	798.2	3722.2	28.5	1	3,722	974	26.2%	1	3,722
415 Hospital	140,915		3,160	862.7	4022.7	28.5	1	4,023	1,052	26.2%	1	4,023
416 Warehouse	25,489		161	156.1	317.1	12.4	6	1,903	0	0.0%	0	0
422 Warehouse	68,963		435	422.2	857.2	12.4	3	2,572	0	0.0%	0	0
425 Warehouse	142,590		899	873	1772	12.4	2	3,544	927	26.2%	2	3,544
427 Warehouse	341,487		2,154	2090.7	4244.7	12.4	1	4,245	1,110	26.2%	1	4,245
428 Warehouse	422,010		2,662	2583.7	5245.7	12.4	1	5,246	1,372	26.2%	1	5,246
429 Warehouse	1,483,499		9,357	9082.6	18439.6	12.4	1	18,440	4,823	26.2%	1	18,440
430 General Light In	15,036		145	92.1	237.1	15.8	4	948	0	0.0%	0	0
434 General Light In	73,119		704	447.7	1151.7	15.8	1	1,152	52	0.0%	1	1,152
435 General Light In	76,001		732	465.3	1197.3	15.8	1	1,197	97	0.0%	1	1,197
436 General Light In	318,980		3,073	1952.9	5025.9	15.8	1	5,026	1,315	26.2%	1	5,026
<b>TOTAL</b>							<b>436</b>	<b>802,284</b>	<b>159,877</b>	<b>17.5%</b>	<b>256</b>	<b>738,515</b>
											<b>58.72%</b>	<b>92.05%</b>

Table E-7: GHG Land Use Sector Threshold Sensitivity Analysis

Threshold (MT)	2000		Housing equiv.	109	units	Projects Captured	14%					
Mitigation Effectiveness	30%		10-year total	1.4	MMT	Emissions Captured	61%					
Performance Standard	0%		1-year total	143,418	MT							
Project Type (Urbemis Category)	SF	Units	Direct CO2e	Indirect CO2e	Total CO2e /Project	CO2e/unit or SF	Projects	Total CO2e	CO2e Reductions	% reduction	Capture - Projects	Capture - Emissions
1 Single Family H	13,581	8	118	19.3	137.3	17.2	35	4,806	0	0.0%	0	0
36 Single Family H	72,914	41	636	103.6	739.6	18.0	7	5,177	0	0.0%	0	0
43 Single Family H	162,188	90	1,414	230.5	1644.5	18.3	4	6,578	0	0.0%	0	0
47 Single Family H	283,179	157	2,469	402.5	2871.5	18.3	5	14,358	4,307	30.0%	5	14,358
52 Single Family H	375,822	209	3,277	534.2	3811.2	18.2	2	7,622	2,287	30.0%	2	7,622
54 Single Family H	987,852	549	8,615	1404.2	10019.2	18.2	1	10,019	3,006	30.0%	1	10,019
55 Single Family H	1,160,504	645	10,120	1649.6	11769.6	18.2	1	11,770	3,531	30.0%	1	11,770
56 Single Family H	1,951,096	1084	17,015	2773.4	19788.4	18.3	1	19,788	5,937	30.0%	1	19,788
57 Single Family H	6,507,269	3615	56,747	9249.8	65996.8	18.3	2	131,994	39,598	30.0%	2	131,994
59 Apartments Low	19,196	23	251	57.8	308.8	13.4	3	926	0	0.0%	0	0
62 Apartments Low	63,135	74	825	190	1015	13.7	1	1,015	0	0.0%	0	0
63 Apartments Low	90,241	106	1,179	271.6	1450.6	13.7	1	1,451	0	0.0%	0	0
64 Apartments Mi	36,229	43	410	109.1	519.1	12.1	1	519	0	0.0%	0	0
65 Apartments Mi	70,194	83	794	211.3	1005.3	12.1	3	3,016	0	0.0%	0	0
68 Apartments Mi	140,920	166	1,593	424.2	2017.2	12.2	4	8,069	69	0.0%	4	8,069
72 Apartments Mi	254,225	299	2,874	765.3	3639.3	12.2	3	10,918	3,275	30.0%	3	10,918
75 Apartments Mi	381,737	449	4,316	1149.1	5465.1	12.2	2	10,930	3,279	30.0%	2	10,930
77 Apartments Hig	94,057	111	996	283.1	1279.1	11.5	1	1,279	0	0.0%	0	0
78 Apartments Hig	129,764	153	1,374	390.6	1764.6	11.5	2	3,529	0	0.0%	0	0
80 Apartments Hig	266,322	313	2,819	801.7	3620.7	11.6	2	7,241	2,172	30.0%	2	7,241
82 Apartments Hig	363,340	427	3,846	1093.7	4939.7	11.6	1	4,940	1,482	30.0%	1	4,940
83 Apartments Hig	592,213	697	6,269	1782.6	8051.6	11.6	1	8,052	2,415	30.0%	1	8,052
84 Apartments Hig	1,733,443	2039	18,350	5217.9	23567.9	11.6	1	23,568	7,070	30.0%	1	23,568
85 Condo/Townho	19,977	24	261	60.1	321.1	13.4	10	3,211	0	0.0%	0	0
95 Condo/Townho	84,260	99	1,099	253.6	1352.6	13.7	2	2,705	0	0.0%	0	0
97 Condo/Townho	170,275	200	2,221	512.6	2733.6	13.7	2	5,467	1,467	26.8%	2	5,467
99 Condo/Townho	344,939	406	4,500	1038.3	5538.3	13.6	2	11,077	3,323	30.0%	2	11,077
101 Congregate Car	5,997	7	33	18.1	51.1	7.3	17	869	0	0.0%	0	0
118 Congregate Car	21,446	25	119	64.6	183.6	7.3	2	367	0	0.0%	0	0
120 Congregate Car	49,166	58	272	148	420	7.2	13	5,460	0	0.0%	0	0
133 Elementary Sch	5,859		112	35.9	147.9	25.2	26	3,845	0	0.0%	0	0
159 Elementary Sch	18,765		358	114.9	472.9	25.2	6	2,837	0	0.0%	0	0
165 Elementary Sch	43,162		823	264.3	1087.3	25.2	2	2,175	0	0.0%	0	0
167 Elementary Sch	45,748		873	280.1	1153.1	25.2	1	1,153	0	0.0%	0	0
168 University/Colle	16,573		517	101.5	618.5	37.3	1	619	0	0.0%	0	0
169 Place of Worsh	21,230		258	130	388	18.3	7	2,716	0	0.0%	0	0
176 Place of Worsh	92,499		1,126	566.3	1692.3	18.3	1	1,692	0	0.0%	0	0
177 Place of Worsh	103,892		1,264	636.1	1900.1	18.3	1	1,900	0	0.0%	0	0
178 High Turnover (	8,013		1,168	49.1	1217.1	151.9	160	194,736	0	0.0%	0	0
338 Hotel	15,336		333	93.9	426.9	27.8	2	854	0	0.0%	0	0
340 Hotel	69,278		1,504	424.1	1928.1	27.8	1	1,928	0	0.0%	0	0
341 Hotel	89,812		1,950	549.9	2499.9	27.8	1	2,500	500	0.0%	1	2,500
342 Strip Mall	13,660		684	83.6	767.6	56.2	21	16,120	0	0.0%	0	0
363 Strip Mall	62,207		3,114	380.9	3494.9	56.2	2	6,990	2,097	30.0%	2	6,990
365 Strip Mall	124,371		6,225	761.5	6986.5	56.2	1	6,987	2,096	30.0%	1	6,987
366 Strip Mall	198,818		9,951	1217.2	11168.2	56.2	1	11,168	3,350	30.0%	1	11,168
367 Supermarket	20,926		2,438	128.1	2566.1	122.6	6	15,397	3,397	0.0%	6	15,397
373 Supermarket	55,362		6,450	338.9	6788.9	122.6	4	27,156	8,147	30.0%	4	27,156
377 Convenience M	6,500		5,388	39.8	5427.8	835.0	2	10,856	3,257	30.0%	2	10,856
379 General Office	14,735		220	90.2	310.2	21.1	9	2,792	0	0.0%	0	0
388 General Office	81,941		1,224	501.7	1725.7	21.1	3	5,177	0	0.0%	0	0
391 General Office	149,746		2,237	916.8	3153.8	21.1	2	6,308	1,892	30.0%	2	6,308
393 General Office	253,929		3,793	1554.7	5347.7	21.1	2	10,695	3,209	30.0%	2	10,695
395 General Office	449,750		6,717	2753.6	9470.6	21.1	1	9,471	2,841	30.0%	1	9,471
396 Government Of	18,423		1,483	112.8	1595.8	86.6	7	11,171	0	0.0%	0	0
403 Government Of	79,443		6,395	486.4	6881.4	86.6	3	20,644	6,193	30.0%	3	20,644
406 Government Of	153,096		12,324	937.3	13261.3	86.6	1	13,261	3,978	30.0%	1	13,261
407 Government Of	270,616		21,784	1656.8	23440.8	86.6	1	23,441	7,032	30.0%	1	23,441
408 Pharmacy/Drug	14,750		1,459	90.3	1549.3	105.0	4	6,197	0	0.0%	0	0
412 Hospital	35,837		804	219.4	1023.4	28.6	1	1,023	0	0.0%	0	0
413 Hospital	60,942		1,367	373.1	1740.1	28.6	1	1,740	0	0.0%	0	0
414 Hospital	130,377		2,924	798.2	3722.2	28.5	1	3,722	1,117	30.0%	1	3,722
415 Hospital	140,915		3,160	862.7	4022.7	28.5	1	4,023	1,207	30.0%	1	4,023
416 Warehouse	25,489		161	156.1	317.1	12.4	6	1,903	0	0.0%	0	0
422 Warehouse	68,963		435	422.2	857.2	12.4	3	2,572	0	0.0%	0	0
425 Warehouse	142,590		899	873	1772	12.4	2	3,544	0	0.0%	0	0
427 Warehouse	341,487		2,154	2090.7	4244.7	12.4	1	4,245	1,273	30.0%	1	4,245
428 Warehouse	422,010		2,662	2583.7	5245.7	12.4	1	5,246	1,574	30.0%	1	5,246
429 Warehouse	1,483,499		9,357	9082.6	18439.6	12.4	1	18,440	5,532	30.0%	1	18,440
430 General Light In	15,036		145	92.1	237.1	15.8	4	948	0	0.0%	0	0
434 General Light In	73,119		704	447.7	1151.7	15.8	1	1,152	0	0.0%	0	0
435 General Light In	76,001		732	465.3	1197.3	15.8	1	1,197	0	0.0%	0	0
436 General Light In	318,980		3,073	1952.9	5025.9	15.8	1	5,026	1,508	30.0%	1	5,026
<b>TOTAL</b>							<b>436</b>	<b>802,284</b>	<b>143,418</b>	<b>17.4%</b>	<b>63</b>	<b>491,385</b>
Threshold											<b>14.45%</b>	<b>61.25%</b>

Threshold (MT)	1200		Housing equiv.	66	units	Projects Captured	58%					
Mitigation Effectiveness	25%		10-year total	1.4	MMT	Emissions Captured	92%					
Performance Standard	0%		1-year total	136,907	MT							
Project Type (Urbemis Category)	SF	Units	Direct CO2e	Indirect CO2e	Total CO2e /Project	CO2e/unit or SF	Projects	Total CO2e	CO2e Reductions	% reduction	Capture - Projects	Capture - Emissions
1 Single Family H	13,581	8	118	19.3	137.3	17.2	35	4,806	0	0.0%	0	0
36 Single Family H	72,914	41	636	103.6	739.6	18.0	7	5,177	0	0.0%	0	0
43 Single Family H	162,188	90	1,414	230.5	1644.5	18.3	4	6,578	1,645	25.0%	4	6,578
47 Single Family H	283,179	157	2,469	402.5	2871.5	18.3	5	14,358	3,589	25.0%	5	14,358
52 Single Family H	375,822	209	3,277	534.2	3811.2	18.2	2	7,622	1,906	25.0%	2	7,622
54 Single Family H	987,852	549	8,615	1404.2	10019.2	18.2	1	10,019	2,505	25.0%	1	10,019
55 Single Family H	1,160,504	645	10,120	1649.6	11769.6	18.2	1	11,770	2,942	25.0%	1	11,770
56 Single Family H	1,951,096	1084	17,015	2773.4	19788.4	18.3	1	19,788	4,947	25.0%	1	19,788
57 Single Family H	6,507,269	3615	56,747	9249.8	65996.8	18.3	2	131,994	32,998	25.0%	2	131,994
59 Apartments Low	19,196	23	251	57.8	308.8	13.4	3	926	0	0.0%	0	0
62 Apartments Low	63,135	74	825	190	1015	13.7	1	1,015	0	0.0%	0	0
63 Apartments Low	90,241	106	1,179	271.6	1450.6	13.7	1	1,451	251	0.0%	1	1,451
64 Apartments MI	36,229	43	410	109.1	519.1	12.1	1	519	0	0.0%	0	0
65 Apartments MI	70,194	83	794	211.3	1005.3	12.1	3	3,016	0	0.0%	0	0
68 Apartments MI	140,920	166	1,593	424.2	2017.2	12.2	4	8,069	2,017	25.0%	4	8,069
72 Apartments MI	254,225	299	2,874	765.3	3639.3	12.2	3	10,918	2,729	25.0%	3	10,918
75 Apartments MI	381,737	449	4,316	1149.1	5465.1	12.2	2	10,930	2,733	25.0%	2	10,930
77 Apartments Hig	94,057	111	996	283.1	1279.1	11.5	1	1,279	79	0.0%	1	1,279
78 Apartments Hig	129,764	153	1,374	390.6	1764.6	11.5	2	3,529	882	25.0%	2	3,529
80 Apartments Hig	266,322	313	2,819	801.7	3620.7	11.6	2	7,241	1,810	25.0%	2	7,241
82 Apartments Hig	363,340	427	3,846	1093.7	4939.7	11.6	1	4,940	1,235	25.0%	1	4,940
83 Apartments Hig	592,213	697	6,269	1782.6	8051.6	11.6	1	8,052	2,013	25.0%	1	8,052
84 Apartments Hig	1,733,443	2039	18,350	5217.9	23567.9	11.6	1	23,568	5,892	25.0%	1	23,568
85 Condo/Townho	19,977	24	261	60.1	321.1	13.4	10	3,211	0	0.0%	0	0
95 Condo/Townho	84,260	99	1,099	253.6	1352.6	13.7	2	2,705	305	0.0%	2	2,705
97 Condo/Townho	170,275	200	2,221	512.6	2733.6	13.7	2	5,467	1,367	25.0%	2	5,467
99 Condo/Townho	344,939	406	4,500	1038.3	5538.3	13.6	2	11,077	2,769	25.0%	2	11,077
101 Congregate Car	5,997	7	33	18.1	51.1	7.3	17	869	0	0.0%	0	0
118 Congregate Car	21,446	25	119	64.6	183.6	7.3	2	367	0	0.0%	0	0
120 Congregate Car	49,166	58	272	148	420	7.2	13	5,460	0	0.0%	0	0
133 Elementary Sch	5,859	112	35.9	147.9	183.8	25.2	26	3,845	0	0.0%	0	0
159 Elementary Sch	18,765	358	114.9	472.9	587.8	25.2	6	2,837	0	0.0%	0	0
165 Elementary Sch	43,162	823	264.3	1087.3	1351.6	25.2	2	2,175	0	0.0%	0	0
167 Elementary Sch	45,748	873	280.1	1153.1	1433.2	25.2	1	1,153	0	0.0%	0	0
168 University/Colle	16,573	517	101.5	618.5	720.0	37.3	1	619	0	0.0%	0	0
169 Place of Worsh	21,230	258	130	388	518	18.3	7	2,716	0	0.0%	0	0
176 Place of Worsh	92,499	1,126	566.3	1692.3	2258.6	18.3	1	1,692	423	25.0%	1	1,692
177 Place of Worsh	103,892	1,264	636.1	1900.1	2536.2	18.3	1	1,900	475	25.0%	1	1,900
178 High Turnover (	8,013	1,168	49.1	1217.1	1519.2	151.9	160	194,736	2,736	0.0%	160	194,736
338 Hotel	15,336	333	93.9	426.9	520.8	27.8	2	854	0	0.0%	0	0
340 Hotel	69,278	1,504	424.1	1928.1	2352.2	27.8	1	1,928	482	25.0%	1	1,928
341 Hotel	89,812	1,950	549.9	2499.9	2949.8	27.8	1	2,500	625	25.0%	1	2,500
342 Strip Mall	13,660	684	83.6	767.6	851.2	56.2	21	16,120	0	0.0%	0	0
363 Strip Mall	62,207	3,114	380.9	3494.9	3875.8	56.2	2	6,990	1,747	25.0%	2	6,990
365 Strip Mall	124,371	6,225	761.5	6986.5	7748.0	56.2	1	6,987	1,747	25.0%	1	6,987
366 Strip Mall	198,818	9,951	1217.2	11168.2	12385.4	56.2	1	11,168	2,792	25.0%	1	11,168
367 Supermarket	20,926	2,438	128.1	2566.1	2694.2	122.6	6	15,397	3,849	25.0%	6	15,397
373 Supermarket	55,362	6,450	338.9	6788.9	7327.8	122.6	4	27,156	6,789	25.0%	4	27,156
377 Convenience M	6,500	5,388	39.8	5427.8	5467.6	835.0	2	10,856	2,714	25.0%	2	10,856
379 General Office	14,735	220	90.2	310.2	400.4	21.1	9	2,792	0	0.0%	0	0
388 General Office	81,941	1,224	501.7	1725.7	2227.4	21.1	3	5,177	1,294	25.0%	3	5,177
391 General Office	149,746	2,237	916.8	3153.8	4070.6	21.1	2	6,308	1,577	25.0%	2	6,308
393 General Office	253,929	3,793	1554.7	5347.7	6902.4	21.1	2	10,695	2,674	25.0%	2	10,695
395 General Office	449,750	6,717	2753.6	9470.6	12224.2	21.1	1	9,471	2,368	25.0%	1	9,471
396 Government Of	18,423	1,483	112.8	1595.8	1708.6	86.6	7	11,171	2,771	24.8%	7	11,171
403 Government Of	79,443	6,395	486.4	6881.4	7367.8	86.6	3	20,644	5,161	25.0%	3	20,644
406 Government Of	153,096	12,324	937.3	13261.3	14198.6	86.6	1	13,261	3,315	25.0%	1	13,261
407 Government Of	270,616	21,784	1656.8	23440.8	25097.6	86.6	1	23,441	5,860	25.0%	1	23,441
408 Pharmacy/Drug	14,750	1,459	90.3	1549.3	1639.6	105.0	4	6,197	1,397	22.5%	4	6,197
412 Hospital	35,837	804	219.4	1023.4	1242.8	28.6	1	1,023	0	0.0%	0	0
413 Hospital	60,942	1,367	373.1	1740.1	2113.2	28.6	1	1,740	435	25.0%	1	1,740
414 Hospital	130,377	2,924	798.2	3722.2	4520.4	28.5	1	3,722	931	25.0%	1	3,722
415 Hospital	140,915	3,160	862.7	4022.7	4885.4	28.5	1	4,023	1,006	25.0%	1	4,023
416 Warehouse	25,489	161	156.1	317.1	473.2	12.4	6	1,903	0	0.0%	0	0
422 Warehouse	68,963	435	422.2	857.2	1279.4	12.4	3	2,572	0	0.0%	0	0
425 Warehouse	142,590	899	873	1772	2645	12.4	2	3,544	886	25.0%	2	3,544
427 Warehouse	341,487	2,154	2090.7	4244.7	6335.4	12.4	1	4,245	1,061	25.0%	1	4,245
428 Warehouse	422,010	2,662	2583.7	5245.7	7811.4	12.4	1	5,246	1,311	25.0%	1	5,246
429 Warehouse	1,483,499	9,357	9082.6	18439.6	27522.2	12.4	1	18,440	4,610	25.0%	1	18,440
430 General Light In	15,036	145	92.1	237.1	329.2	15.8	4	948	0	0.0%	0	0
434 General Light In	73,119	704	447.7	1151.7	1600.4	15.8	1	1,152	0	0.0%	0	0
435 General Light In	76,001	732	465.3	1197.3	1662.6	15.8	1	1,197	0	0.0%	0	0
436 General Light In	318,980	3,073	1952.9	5025.9	6978.8	15.8	1	5,026	1,256	25.0%	1	5,026
<b>TOTAL</b>							<b>436</b>	<b>802,284</b>	<b>136,907</b>	<b>16.6%</b>	<b>253</b>	<b>735,013</b>
Threshold											<b>58.03%</b>	<b>91.62%</b>

Table E-9: GHG Land Use Sector Threshold Sensitivity Analysis												
Threshold (MT)	3000	Housing equiv.	164	units	Projects Captured	10%						
Mitigation Effectiveness	30%	10-year total	1.3	MMT	Emissions Captured	56%						
Performance Standard	0%	1-year total	127,427	MT								
Project Type (Urbemis Category)	SF	Units	Direct CO2e	Indirect CO2e	Total CO2e /Project	CO2e/unit or SF	Projects	Total CO2e	CO2e Reductions	% reduction	Capture - Projects	Capture - Emissions
1 Single Family H	13,581	8	118	19.3	137.3	17.2	35	4,806	0	0.0%	0	0
36 Single Family H	72,914	41	636	103.6	739.6	18.0	7	5,177	0	0.0%	0	0
43 Single Family H	162,188	90	1,414	230.5	1644.5	18.3	4	6,578	0	0.0%	0	0
47 Single Family H	283,179	157	2,469	402.5	2871.5	18.3	5	14,358	0	0.0%	0	0
52 Single Family H	375,822	209	3,277	534.2	3811.2	18.2	2	7,622	1,622	0.0%	2	7,622
54 Single Family H	987,852	549	8,615	1404.2	10019.2	18.2	1	10,019	3,006	30.0%	1	10,019
55 Single Family H	1,160,504	645	10,120	1649.6	11769.6	18.2	1	11,770	3,531	30.0%	1	11,770
56 Single Family H	1,951,096	1084	17,015	2773.4	19788.4	18.3	1	19,788	5,937	30.0%	1	19,788
57 Single Family H	6,507,269	3615	56,747	9249.8	65996.8	18.3	2	131,994	39,598	30.0%	2	131,994
59 Apartments Low	19,196	23	251	57.8	308.8	13.4	3	926	0	0.0%	0	0
62 Apartments Low	63,135	74	825	190	1015	13.7	1	1,015	0	0.0%	0	0
63 Apartments Low	90,241	106	1,179	271.6	1450.6	13.7	1	1,451	0	0.0%	0	0
64 Apartments MI	36,229	43	410	109.1	519.1	12.1	1	519	0	0.0%	0	0
65 Apartments MI	70,194	83	794	211.3	1005.3	12.1	3	3,016	0	0.0%	0	0
68 Apartments MI	140,920	166	1,593	424.2	2017.2	12.2	4	8,069	0	0.0%	0	0
72 Apartments MI	254,225	299	2,874	765.3	3639.3	12.2	3	10,918	1,918	0.0%	3	10,918
75 Apartments MI	381,737	449	4,316	1149.1	5465.1	12.2	2	10,930	3,279	30.0%	2	10,930
77 Apartments Hig	94,057	111	996	283.1	1279.1	11.5	1	1,279	0	0.0%	0	0
78 Apartments Hig	129,764	153	1,374	390.6	1764.6	11.5	2	3,529	0	0.0%	0	0
80 Apartments Hig	266,322	313	2,819	801.7	3620.7	11.6	2	7,241	1,241	0.0%	2	7,241
82 Apartments Hig	363,340	427	3,846	1093.7	4939.7	11.6	1	4,940	1,482	30.0%	1	4,940
83 Apartments Hig	592,213	697	6,269	1782.6	8051.6	11.6	1	8,052	2,415	30.0%	1	8,052
84 Apartments Hig	1,733,443	2039	18,350	5217.9	23567.9	11.6	1	23,568	7,070	30.0%	1	23,568
85 Condo/Townho	19,977	24	261	60.1	321.1	13.4	10	3,211	0	0.0%	0	0
95 Condo/Townho	84,260	99	1,099	253.6	1352.6	13.7	2	2,705	0	0.0%	0	0
97 Condo/Townho	170,275	200	2,221	512.6	2733.6	13.7	2	5,467	0	0.0%	0	0
99 Condo/Townho	344,939	406	4,500	1038.3	5538.3	13.6	2	11,077	3,323	30.0%	2	11,077
101 Congregate Car	5,997	7	33	18.1	51.1	7.3	17	869	0	0.0%	0	0
118 Congregate Car	21,446	25	119	64.6	183.6	7.3	2	367	0	0.0%	0	0
120 Congregate Car	49,166	58	272	148	420	7.2	13	5,460	0	0.0%	0	0
133 Elementary Sch	5,859	112	35.9	147.9	183.8	25.2	26	3,845	0	0.0%	0	0
159 Elementary Sch	18,765	358	114.9	472.9	587.8	25.2	6	2,837	0	0.0%	0	0
165 Elementary Sch	43,162	823	264.3	1087.3	1351.6	25.2	2	2,175	0	0.0%	0	0
167 Elementary Sch	45,748	873	280.1	1153.1	1433.2	25.2	1	1,153	0	0.0%	0	0
168 University/Colle	16,573	517	101.5	618.5	720.0	37.3	1	619	0	0.0%	0	0
169 Place of Worth	21,230	258	130	388	518.0	18.3	7	2,716	0	0.0%	0	0
176 Place of Worth	92,499	1,126	566.3	1692.3	2258.6	18.3	1	1,692	0	0.0%	0	0
177 Place of Worth	103,892	1,264	636.1	1900.1	2536.2	18.3	1	1,900	0	0.0%	0	0
178 High Turnover (	8,013	1,168	49.1	1217.1	1217.1	151.9	160	194,736	0	0.0%	0	0
338 Hotel	15,336	333	93.9	426.9	520.8	27.8	2	854	0	0.0%	0	0
340 Hotel	69,278	1,504	424.1	1928.1	2352.2	27.8	1	1,928	0	0.0%	0	0
341 Hotel	89,812	1,950	549.9	2499.9	2949.8	27.8	1	2,500	0	0.0%	0	0
342 Strip Mall	13,660	684	83.6	767.6	851.2	56.2	21	16,120	0	0.0%	0	0
363 Strip Mall	62,207	3,114	380.9	3494.9	3875.8	56.2	2	6,990	990	0.0%	2	6,990
365 Strip Mall	124,371	6,225	761.5	6986.5	7748.0	56.2	1	6,987	2,096	30.0%	1	6,987
366 Strip Mall	198,818	9,951	1217.2	11168.2	12385.4	56.2	1	11,168	3,350	30.0%	1	11,168
367 Supermarket	20,926	2,438	128.1	2566.1	2694.2	122.6	6	15,397	0	0.0%	0	0
373 Supermarket	55,362	6,450	338.9	6788.9	7327.8	122.6	4	27,156	8,147	30.0%	4	27,156
377 Convenience M	6,500	5,388	39.8	5427.8	5467.6	835.0	2	10,856	3,257	30.0%	2	10,856
379 General Office	14,735	220	90.2	310.2	400.4	21.1	9	2,792	0	0.0%	0	0
388 General Office	81,941	1,224	501.7	1725.7	2227.4	21.1	3	5,177	0	0.0%	0	0
391 General Office	149,746	2,237	916.8	3153.8	4070.6	21.1	2	6,308	308	0.0%	2	6,308
393 General Office	253,929	3,793	1554.7	5347.7	6902.4	21.1	2	10,695	3,209	30.0%	2	10,695
395 General Office	449,750	6,717	2753.6	9470.6	12224.2	21.1	1	9,471	2,841	30.0%	1	9,471
396 Government Of	18,423	1,483	112.8	1595.8	1708.6	86.6	7	11,171	0	0.0%	0	0
403 Government Of	79,443	6,395	486.4	6881.4	7367.8	86.6	3	20,644	6,193	30.0%	3	20,644
406 Government Of	153,096	12,324	937.3	13261.3	14198.6	86.6	1	13,261	3,978	30.0%	1	13,261
407 Government Of	270,616	21,784	1656.8	23440.8	25097.6	86.6	1	23,441	7,032	30.0%	1	23,441
408 Pharmacy/Drug	14,750	1,459	90.3	1549.3	1639.6	105.0	4	6,197	0	0.0%	0	0
412 Hospital	35,837	804	219.4	1023.4	1242.8	28.6	1	1,023	0	0.0%	0	0
413 Hospital	60,942	1,367	373.1	1740.1	2113.2	28.6	1	1,740	0	0.0%	0	0
414 Hospital	130,377	2,924	798.2	3722.2	4520.4	28.5	1	3,722	722	0.0%	1	3,722
415 Hospital	140,915	3,160	862.7	4022.7	4885.4	28.5	1	4,023	1,023	25.4%	1	4,023
416 Warehouse	25,489	161	156.1	317.1	473.2	12.4	6	1,903	0	0.0%	0	0
422 Warehouse	68,963	435	422.2	857.2	1279.4	12.4	3	2,572	0	0.0%	0	0
425 Warehouse	142,590	899	873	1772	2645.0	12.4	2	3,544	0	0.0%	0	0
427 Warehouse	341,487	2,154	2090.7	4244.7	6335.4	12.4	1	4,245	1,245	29.3%	1	4,245
428 Warehouse	422,010	2,662	2583.7	5245.7	7829.4	12.4	1	5,246	1,574	30.0%	1	5,246
429 Warehouse	1,483,499	9,357	9082.6	18439.6	27522.2	12.4	1	18,440	5,532	30.0%	1	18,440
430 General Light In	15,036	145	92.1	237.1	329.2	15.8	4	948	0	0.0%	0	0
434 General Light In	73,119	704	447.7	1151.7	1600.4	15.8	1	1,152	0	0.0%	0	0
435 General Light In	76,001	732	465.3	1197.3	1662.6	15.8	1	1,197	0	0.0%	0	0
436 General Light In	318,980	3,073	1952.9	5025.9	6978.8	15.8	1	5,026	1,508	30.0%	1	5,026
<b>TOTAL</b>							<b>436</b>	<b>802,284</b>	<b>127,427</b>	<b>15.0%</b>	<b>45</b>	<b>445,595</b>
Threshold											<b>10.32%</b>	<b>55.54%</b>

Table E-10: GHG Land Use Sector Threshold Sensitivity Analysis

Threshold (MT)	1500	Housing equiv.	82	units	Projects Captured	20%							
Mitigation Effectiveness	25%	10-year total	1.3	MMT	Emissions Captured	67%							
Performance Standard	0%	1-year total	127,303	MT									
Project Type (Urbemis Category)	SF	Units	Direct CO2e	Indirect CO2e	Total CO2e /Project	CO2e/unit or SF	Projects	Total CO2e	CO2e Reductions	% reduction	Capture - Projects	Capture - Emissions	
1 Single Family H	13,581	8	118	19.3	137.3	17.2	35	4,806	0	0.0%	0	0	
36 Single Family H	72,914	41	636	103.6	739.6	18.0	7	5,177	0	0.0%	0	0	
43 Single Family H	162,188	90	1,414	230.5	1644.5	18.3	4	6,578	578	0.0%	4	6,578	
47 Single Family H	283,179	157	2,469	402.5	2871.5	18.3	5	14,358	3,589	25.0%	5	14,358	
52 Single Family H	375,822	209	3,277	534.2	3811.2	18.2	2	7,622	1,906	25.0%	2	7,622	
54 Single Family H	987,852	549	8,615	1404.2	10019.2	18.2	1	10,019	2,505	25.0%	1	10,019	
55 Single Family H	1,160,504	645	10,120	1649.6	11769.6	18.2	1	11,770	2,942	25.0%	1	11,770	
56 Single Family H	1,951,096	1084	17,015	2773.4	19788.4	18.3	1	19,788	4,947	25.0%	1	19,788	
57 Single Family H	6,507,269	3615	56,747	9249.8	65996.8	18.3	2	131,994	32,998	25.0%	2	131,994	
59 Apartments Low	19,196	23	251	57.8	308.8	13.4	3	926	0	0.0%	0	0	
62 Apartments Low	63,135	74	825	190	1015	13.7	1	1,015	0	0.0%	0	0	
63 Apartments Low	90,241	106	1,179	271.6	1450.6	13.7	1	1,451	0	0.0%	0	0	
64 Apartments MI	36,229	43	410	109.1	519.1	12.1	1	519	0	0.0%	0	0	
65 Apartments MI	70,194	83	794	211.3	1005.3	12.1	3	3,016	0	0.0%	0	0	
68 Apartments MI	140,920	166	1,593	424.2	2017.2	12.2	4	8,069	2,017	25.0%	4	8,069	
72 Apartments MI	254,225	299	2,874	765.3	3639.3	12.2	3	10,918	2,729	25.0%	3	10,918	
75 Apartments MI	381,737	449	4,316	1149.1	5465.1	12.2	2	10,930	2,733	25.0%	2	10,930	
77 Apartments Hig	94,057	111	996	283.1	1279.1	11.5	1	1,279	0	0.0%	0	0	
78 Apartments Hig	129,764	153	1,374	390.6	1764.6	11.5	2	3,529	529	0.0%	2	3,529	
80 Apartments Hig	266,322	313	2,819	801.7	3620.7	11.6	2	7,241	1,810	25.0%	2	7,241	
82 Apartments Hig	363,340	427	3,846	1093.7	4939.7	11.6	4	4,940	1,235	25.0%	4	4,940	
83 Apartments Hig	592,213	697	6,269	1782.6	8051.6	11.6	1	8,052	2,013	25.0%	1	8,052	
84 Apartments Hig	1,733,443	2039	18,350	5217.9	23567.9	11.6	1	23,568	5,892	25.0%	1	23,568	
85 Condo/Townho	19,977	24	261	60.1	321.1	13.4	10	3,211	0	0.0%	0	0	
95 Condo/Townho	84,260	99	1,099	253.6	1352.6	13.7	2	2,705	0	0.0%	0	0	
97 Condo/Townho	170,275	200	2,221	512.6	2733.6	13.7	2	5,467	1,367	25.0%	2	5,467	
99 Condo/Townho	344,939	406	4,500	1038.3	5538.3	13.6	2	11,077	2,769	25.0%	2	11,077	
101 Congregate Car	5,997	7	33	18.1	51.1	7.3	17	869	0	0.0%	0	0	
118 Congregate Car	21,446	25	119	64.6	183.6	7.3	2	367	0	0.0%	0	0	
120 Congregate Car	49,166	58	272	148	420	7.2	13	5,460	0	0.0%	0	0	
133 Elementary Sch	5,859	112	35.9	147.9	183.8	25.2	26	3,845	0	0.0%	0	0	
159 Elementary Sch	18,765	358	114.9	472.9	587.8	25.2	6	2,837	0	0.0%	0	0	
165 Elementary Sch	43,162	823	264.3	1087.3	1351.6	25.2	2	2,175	0	0.0%	0	0	
167 Elementary Sch	45,748	873	280.1	1153.1	1433.2	25.2	1	1,153	0	0.0%	0	0	
168 University/Colle	16,573	517	101.5	618.5	720.0	37.3	1	619	0	0.0%	0	0	
169 Place of Worth	21,230	258	130	388	518	18.3	7	2,716	0	0.0%	0	0	
176 Place of Worth	92,499	1,126	566.3	1692.3	2258.6	18.3	1	1,692	192	0.0%	1	1,692	
177 Place of Worth	103,892	1,264	636.1	1900.1	2536.2	18.3	1	1,900	400	21.1%	1	1,900	
178 High Turnover (	8,013	1,168	49.1	1217.1	1266.2	151.9	160	194,736	0	0.0%	0	0	
338 Hotel	15,336	333	93.9	426.9	520.8	27.8	2	854	0	0.0%	0	0	
340 Hotel	69,278	1,504	424.1	1928.1	2352.2	27.8	1	1,928	428	22.2%	1	1,928	
341 Hotel	89,812	1,950	549.9	2499.9	3049.8	27.8	1	2,500	625	25.0%	1	2,500	
342 Strip Mall	13,660	684	83.6	767.6	851.2	56.2	21	16,120	0	0.0%	0	0	
363 Strip Mall	62,207	3,114	380.9	3494.9	3875.8	56.2	2	6,990	1,747	25.0%	2	6,990	
365 Strip Mall	124,371	6,225	761.5	6986.5	7748.0	56.2	1	6,987	1,747	25.0%	1	6,987	
366 Strip Mall	198,818	9,951	1217.2	11168.2	12385.4	56.2	1	11,168	2,792	25.0%	1	11,168	
367 Supermarket	20,926	2,438	128.1	2566.1	2694.2	122.6	6	15,397	3,849	25.0%	6	15,397	
373 Supermarket	55,362	6,450	338.9	6788.9	7327.8	122.6	4	27,156	6,789	25.0%	4	27,156	
377 Convenience M	6,500	5,388	39.8	5427.8	5467.6	835.0	2	10,856	2,714	25.0%	2	10,856	
379 General Office	14,735	220	90.2	310.2	400.4	21.1	9	2,792	0	0.0%	0	0	
388 General Office	81,941	1,224	501.7	1725.7	2227.4	21.1	3	5,177	677	0.0%	3	5,177	
391 General Office	149,746	2,237	916.8	3153.8	4070.6	21.1	2	6,308	1,577	25.0%	2	6,308	
393 General Office	253,929	3,793	1554.7	5347.7	6902.4	21.1	2	10,695	2,674	25.0%	2	10,695	
395 General Office	449,750	6,717	2753.6	9470.6	12224.2	21.1	1	9,471	2,368	25.0%	1	9,471	
396 Government Of	18,423	1,483	112.8	1595.8	1708.6	86.6	7	11,171	671	0.0%	7	11,171	
403 Government Of	79,443	6,395	486.4	6881.4	7367.8	86.6	3	20,644	5,161	25.0%	3	20,644	
406 Government Of	153,096	12,324	937.3	13261.3	14198.6	86.6	1	13,261	3,315	25.0%	1	13,261	
407 Government Of	270,616	21,784	1656.8	23440.8	25097.6	86.6	1	23,441	5,860	25.0%	1	23,441	
408 Pharmacy/Drug	14,750	1,459	90.3	1549.3	1639.6	105.0	4	6,197	197	0.0%	4	6,197	
412 Hospital	35,837	804	219.4	1023.4	1242.8	28.6	1	1,023	0	0.0%	0	0	
413 Hospital	60,942	1,367	373.1	1740.1	2113.2	28.6	1	1,740	240	0.0%	1	1,740	
414 Hospital	130,377	2,924	798.2	3722.2	4520.4	28.5	1	3,722	931	25.0%	1	3,722	
415 Hospital	140,915	3,160	862.7	4022.7	4885.4	28.5	1	4,023	1,006	25.0%	1	4,023	
416 Warehouse	25,489	161	156.1	317.1	473.2	12.4	6	1,903	0	0.0%	0	0	
422 Warehouse	68,963	435	422.2	857.2	1279.4	12.4	3	2,572	0	0.0%	0	0	
425 Warehouse	142,590	899	873	1772	2645	12.4	2	3,544	544	0.0%	2	3,544	
427 Warehouse	341,487	2,154	2090.7	4244.7	6335.4	12.4	1	4,245	1,061	25.0%	1	4,245	
428 Warehouse	422,010	2,662	2583.7	5245.7	7829.4	12.4	1	5,246	1,311	25.0%	1	5,246	
429 Warehouse	1,483,499	9,357	9082.6	18439.6	27522.2	12.4	1	18,440	4,610	25.0%	1	18,440	
430 General Light In	15,036	145	92.1	237.1	329.2	15.8	4	948	0	0.0%	0	0	
434 General Light In	73,119	704	447.7	1151.7	1600.4	15.8	1	1,152	0	0.0%	0	0	
435 General Light In	76,001	732	465.3	1197.3	1662.6	15.8	1	1,197	0	0.0%	0	0	
436 General Light In	318,980	3,073	1952.9	5025.9	6978.8	15.8	1	5,026	1,256	25.0%	1	5,026	
<b>TOTAL</b>							<b>436</b>	<b>802,284</b>	<b>127,303</b>	<b>15.4%</b>	<b>89</b>	<b>534,842</b>	
Threshold											<b>20.41%</b>	<b>66.66%</b>	

Table E-11: GHG Land Use Sector Threshold Sensitivity Analysis

Threshold (MT)	0	Housing equiv.	0	units	Projects Captured	100%						
Mitigation Effectiveness	26%	10-year total	2.1	MMT	Emissions Captured	100%						
Performance Standard	0%	1-year total	208,594	MT								
Project Type (Urbemis Category)	SF	Units	Direct CO2e	Indirect CO2e	Total CO2e /Project	CO2e/unit or SF	Projects	Total CO2e	CO2e Reductions	% reduction	Capture - Projects	Capture - Emissions
1 Single Family H	13,581	8	118	19.3	137.3	17.2	35	4,806	1,249	26.0%	35	4,806
36 Single Family H	72,914	41	636	103.6	739.6	18.0	7	5,177	1,346	26.0%	7	5,177
43 Single Family H	162,188	90	1,414	230.5	1,644.5	18.3	4	6,578	1,710	26.0%	4	6,578
47 Single Family H	283,179	157	2,469	402.5	2,871.5	18.3	5	14,358	3,733	26.0%	5	14,358
52 Single Family H	375,822	209	3,277	534.2	3,811.2	18.2	2	7,622	1,982	26.0%	2	7,622
54 Single Family H	987,852	549	8,615	1404.2	10019.2	18.2	1	10,019	2,605	26.0%	1	10,019
55 Single Family H	1,160,504	645	10,120	1649.6	11769.6	18.2	1	11,770	3,060	26.0%	1	11,770
56 Single Family H	1,951,096	1084	17,015	2773.4	19788.4	18.3	1	19,788	5,145	26.0%	1	19,788
57 Single Family H	6,507,269	3615	56,747	9249.8	65996.8	18.3	2	131,994	34,318	26.0%	2	131,994
59 Apartments Low	19,196	23	251	57.8	308.8	13.4	3	926	241	26.0%	3	926
62 Apartments Low	63,135	74	825	190	1015	13.7	1	1,015	264	26.0%	1	1,015
63 Apartments Low	90,241	106	1,179	271.6	1450.6	13.7	1	1,451	377	26.0%	1	1,451
64 Apartments MI	36,229	43	410	109.1	519.1	12.1	1	519	135	26.0%	1	519
65 Apartments MI	70,194	83	794	211.3	1005.3	12.1	3	3,016	784	26.0%	3	3,016
68 Apartments MI	140,920	166	1,593	424.2	2017.2	12.2	4	8,069	2,098	26.0%	4	8,069
72 Apartments MI	254,225	299	2,874	765.3	3639.3	12.2	3	10,918	2,839	26.0%	3	10,918
75 Apartments MI	381,737	449	4,316	1149.1	5465.1	12.2	2	10,930	2,842	26.0%	2	10,930
77 Apartments Hig	94,057	111	996	283.1	1279.1	11.5	1	1,279	333	26.0%	1	1,279
78 Apartments Hig	129,764	153	1,374	390.6	1764.6	11.5	2	3,529	918	26.0%	2	3,529
80 Apartments Hig	266,322	313	2,819	801.7	3620.7	11.6	2	7,241	1,883	26.0%	2	7,241
82 Apartments Hig	363,340	427	3,846	1093.7	4939.7	11.6	1	4,940	1,284	26.0%	1	4,940
83 Apartments Hig	592,213	697	6,269	1782.6	8051.6	11.6	1	8,052	2,093	26.0%	1	8,052
84 Apartments Hig	1,733,443	2039	18,350	5217.9	23567.9	11.6	1	23,568	6,128	26.0%	1	23,568
85 Condo/Townho	19,977	24	261	60.1	321.1	13.4	10	3,211	835	26.0%	10	3,211
95 Condo/Townho	84,260	99	1,099	253.6	1352.6	13.7	2	2,705	703	26.0%	2	2,705
97 Condo/Townho	170,275	200	2,221	512.6	2733.6	13.7	2	5,467	1,421	26.0%	2	5,467
99 Condo/Townho	344,939	406	4,500	1038.3	5538.3	13.6	2	11,077	2,880	26.0%	2	11,077
101 Congregate Car	5,997	7	33	18.1	51.1	7.3	17	869	226	26.0%	17	869
118 Congregate Car	21,446	25	119	64.6	183.6	7.3	2	367	95	26.0%	2	367
120 Congregate Car	49,166	58	272	148	420	7.2	13	5,460	1,420	26.0%	13	5,460
133 Elementary Sch	5,859	112	35.9	147.9	183.8	25.2	26	3,845	1,000	26.0%	26	3,845
159 Elementary Sch	18,765	358	358	114.9	472.9	25.2	6	2,837	738	26.0%	6	2,837
165 Elementary Sch	43,162	823	264.3	1087.3	1351.6	25.2	2	2,175	565	26.0%	2	2,175
167 Elementary Sch	45,748	873	280.1	1153.1	1433.2	25.2	1	1,153	300	26.0%	1	1,153
168 University/Colle	16,573	517	101.5	618.5	720.0	37.3	1	619	161	26.0%	1	619
169 Place of Worth	21,230	258	130	388	518	18.3	7	2,716	706	26.0%	7	2,716
176 Place of Worth	92,499	1,126	1,126	566.3	1692.3	18.3	1	1,692	440	26.0%	1	1,692
177 Place of Worth	103,892	1,264	1,264	636.1	1900.1	18.3	1	1,900	494	26.0%	1	1,900
178 High Turnover (	8,013	1,168	49.1	1217.1	1519.1	151.9	160	194,736	50,631	26.0%	160	194,736
338 Hotel	15,336	333	93.9	426.9	520.8	27.8	2	854	222	26.0%	2	854
340 Hotel	69,278	1,504	424.1	1928.1	2352.2	27.8	1	1,928	501	26.0%	1	1,928
341 Hotel	89,812	1,950	549.9	2499.9	2949.8	27.8	1	2,500	650	26.0%	1	2,500
342 Strip Mall	13,660	684	83.6	767.6	851.2	56.2	21	16,120	4,191	26.0%	21	16,120
363 Strip Mall	62,207	3,114	380.9	3494.9	3875.8	56.2	2	6,990	1,817	26.0%	2	6,990
365 Strip Mall	124,371	6,225	761.5	6986.5	7748.0	56.2	1	6,987	1,816	26.0%	1	6,987
366 Strip Mall	198,818	9,951	1217.2	11168.2	12385.4	56.2	1	11,168	2,904	26.0%	1	11,168
367 Supermarket	20,926	2,438	128.1	2566.1	2694.2	122.6	6	15,397	4,003	26.0%	6	15,397
373 Supermarket	55,362	6,450	338.9	6788.9	7327.8	122.6	4	27,156	7,060	26.0%	4	27,156
377 Convenience M	6,500	5,388	39.8	5427.8	5467.6	835.0	2	10,856	2,822	26.0%	2	10,856
379 General Office	14,735	220	90.2	310.2	400.4	21.1	9	2,792	726	26.0%	9	2,792
388 General Office	81,941	1,224	501.7	1725.7	2227.4	21.1	3	5,177	1,346	26.0%	3	5,177
391 General Office	149,746	2,237	916.8	3153.8	4070.6	21.1	2	6,308	1,640	26.0%	2	6,308
393 General Office	253,929	3,793	1554.7	5347.7	6902.4	21.1	2	10,695	2,781	26.0%	2	10,695
395 General Office	449,750	6,717	2753.6	9470.6	12224.2	21.1	1	9,471	2,462	26.0%	1	9,471
396 Government Of	18,423	1,483	112.8	1595.8	1708.6	86.6	7	11,171	2,904	26.0%	7	11,171
403 Government Of	79,443	6,395	486.4	6881.4	7367.8	86.6	3	20,644	5,367	26.0%	3	20,644
406 Government Of	153,096	12,324	937.3	13261.3	14198.6	86.6	1	13,261	3,448	26.0%	1	13,261
407 Government Of	270,616	21,784	1656.8	23440.8	25097.6	86.6	1	23,441	6,095	26.0%	1	23,441
408 Pharmacy/Drug	14,750	1,459	90.3	1549.3	1639.6	105.0	4	6,197	1,611	26.0%	4	6,197
412 Hospital	35,837	804	219.4	1023.4	1242.8	28.6	1	1,023	266	26.0%	1	1,023
413 Hospital	60,942	1,367	373.1	1740.1	2113.2	28.6	1	1,740	452	26.0%	1	1,740
414 Hospital	130,377	2,924	798.2	3722.2	4520.4	28.5	1	3,722	968	26.0%	1	3,722
415 Hospital	140,915	3,160	862.7	4022.7	4885.4	28.5	1	4,023	1,046	26.0%	1	4,023
416 Warehouse	25,489	161	156.1	317.1	473.2	12.4	6	1,903	495	26.0%	6	1,903
422 Warehouse	68,963	435	422.2	857.2	1279.4	12.4	3	2,572	669	26.0%	3	2,572
425 Warehouse	142,590	899	873	1772	2645	12.4	2	3,544	921	26.0%	2	3,544
427 Warehouse	341,487	2,154	2090.7	4244.7	6335.4	12.4	1	4,245	1,104	26.0%	1	4,245
428 Warehouse	422,010	2,662	2583.7	5245.7	7829.4	12.4	1	5,246	1,364	26.0%	1	5,246
429 Warehouse	1,483,499	9,357	9082.6	18439.6	27522.2	12.4	1	18,440	4,794	26.0%	1	18,440
430 General Light In	15,036	145	92.1	237.1	329.2	15.8	4	948	247	26.0%	4	948
434 General Light In	73,119	704	447.7	1151.7	1609.4	15.8	1	1,152	299	26.0%	1	1,152
435 General Light In	76,001	732	465.3	1197.3	1662.6	15.8	1	1,197	311	26.0%	1	1,197
436 General Light In	318,980	3,073	1952.9	5025.9	6978.8	15.8	1	5,026	1,307	26.0%	1	5,026
<b>TOTAL</b>							<b>436</b>	<b>802,284</b>	<b>208,594</b>	<b>26.0%</b>	<b>436</b>	<b>802,284</b>
Threshold											<b>100.00%</b>	<b>100.00%</b>

Table E-12: GHG Land Use Sector Threshold Sensitivity Analysis

Threshold (MT)	1900		Housing equiv.	104	units	Projects Captured Emissions Captured	15%					
Mitigation Effectiveness	30%		10-year total	1.6	MMT		62%					
Performance Standard	5%		1-year total	160,073	MT							
Project Type (Urbemis Category)	SF	Units	Direct CO2e	Indirect CO2e	Total CO2e /Project	CO2e/unit or SF	Projects	Total CO2e	CO2e Reductions	% reduction	Capture - Projects	Capture - Emissions
1 Single Family H	13,581	8	118	19.3	137.3	17.2	35	4,806	240	0.0%	0	0
36 Single Family H	72,914	41	636	103.6	739.6	18.0	7	5,177	259	0.0%	0	0
43 Single Family H	162,188	90	1,414	230.5	1644.5	18.3	4	6,578	329	0.0%	0	0
47 Single Family H	283,179	157	2,469	402.5	2871.5	18.3	5	14,358	4,307	30.0%	5	14,358
52 Single Family H	375,822	209	3,277	534.2	3811.2	18.2	2	7,622	2,287	30.0%	2	7,622
54 Single Family H	987,852	549	8,615	1404.2	10019.2	18.2	1	10,019	3,006	30.0%	1	10,019
55 Single Family H	1,160,504	645	10,120	1649.6	11769.6	18.2	1	11,770	3,531	30.0%	1	11,770
56 Single Family H	1,951,096	1084	17,015	2773.4	19788.4	18.3	1	19,788	5,937	30.0%	1	19,788
57 Single Family H	6,507,269	3615	56,747	9249.8	65996.8	18.3	2	131,994	39,598	30.0%	2	131,994
59 Apartments Low	19,196	23	251	57.8	308.8	13.4	3	926	46	0.0%	0	0
62 Apartments Low	63,135	74	825	190	1015	13.7	1	1,015	51	0.0%	0	0
63 Apartments Low	90,241	106	1,179	271.6	1450.6	13.7	1	1,451	73	0.0%	0	0
64 Apartments Mi	36,229	43	410	109.1	519.1	12.1	1	519	26	0.0%	0	0
65 Apartments Mi	70,194	83	794	211.3	1005.3	12.1	3	3,016	151	0.0%	0	0
68 Apartments Mi	140,920	166	1,593	424.2	2017.2	12.2	4	8,069	469	0.0%	4	8,069
72 Apartments Mi	254,225	299	2,874	765.3	3639.3	12.2	3	10,918	3,275	30.0%	3	10,918
75 Apartments Mi	381,737	449	4,316	1149.1	5465.1	12.2	2	10,930	3,279	30.0%	2	10,930
77 Apartments Hig	94,057	111	996	283.1	1279.1	11.5	1	1,279	64	0.0%	0	0
78 Apartments Hig	129,764	153	1,374	390.6	1764.6	11.5	2	3,529	176	0.0%	0	0
80 Apartments Hig	266,322	313	2,819	801.7	3620.7	11.6	2	7,241	2,172	30.0%	2	7,241
82 Apartments Hig	363,340	427	3,846	1093.7	4939.7	11.6	1	4,940	1,482	30.0%	1	4,940
83 Apartments Hig	592,213	697	6,269	1782.6	8051.6	11.6	1	8,052	2,415	30.0%	1	8,052
84 Apartments Hig	1,733,443	2039	18,350	5217.9	23567.9	11.6	1	23,568	7,070	30.0%	1	23,568
85 Condo/Townho	19,977	24	261	60.1	321.1	13.4	10	3,211	161	0.0%	0	0
95 Condo/Townho	84,260	99	1,099	253.6	1352.6	13.7	2	2,705	135	0.0%	0	0
97 Condo/Townho	170,275	200	2,221	512.6	2733.6	13.7	2	5,467	1,640	30.0%	2	5,467
99 Condo/Townho	344,939	406	4,500	1038.3	5538.3	13.6	2	11,077	3,323	30.0%	2	11,077
101 Congregate Car	5,997	7	33	18.1	51.1	7.3	17	869	43	0.0%	0	0
118 Congregate Car	21,446	25	119	64.6	183.6	7.3	2	367	18	0.0%	0	0
120 Congregate Car	49,166	58	272	148	420	7.2	13	5,460	273	0.0%	0	0
133 Elementary Sch	5,859	112	35.9	147.9	183.8	25.2	26	3,845	192	0.0%	0	0
159 Elementary Sch	18,765	358	114.9	472.9	587.8	25.2	6	2,837	142	0.0%	0	0
165 Elementary Sch	43,162	823	264.3	1087.3	1351.6	25.2	2	2,175	109	0.0%	0	0
167 Elementary Sch	45,748	873	280.1	1153.1	1433.2	25.2	2	1,153	58	0.0%	0	0
168 University/Colle	16,573	517	101.5	618.5	720	37.3	1	619	31	0.0%	0	0
169 Place of Worsh	21,230	258	130	388	518	18.3	7	2,716	136	0.0%	0	0
176 Place of Worsh	92,499	1,126	566.3	1692.3	2258.6	18.3	1	1,692	85	0.0%	0	0
177 Place of Worsh	103,892	1,264	636.1	1900.1	2536.2	18.3	1	1,900	0	0.0%	1	1,900
178 High Turnover (	8,013	1,168	49.1	1217.1	1519.1	151.9	160	194,736	9,737	0.0%	0	0
338 Hotel	15,336	333	93.9	426.9	520.8	27.8	2	854	43	0.0%	0	0
340 Hotel	69,278	1,504	424.1	1928.1	2352.2	27.8	1	1,928	28	0.0%	1	1,928
341 Hotel	89,812	1,950	549.9	2499.9	2949.8	27.8	1	2,500	600	24.0%	1	2,500
342 Strip Mall	13,660	684	83.6	767.6	851.2	56.2	21	16,120	806	0.0%	0	0
363 Strip Mall	62,207	3,114	380.9	3494.9	3875.8	56.2	2	6,990	2,097	30.0%	2	6,990
365 Strip Mall	124,371	6,225	761.5	6986.5	7748	56.2	1	6,987	2,096	30.0%	1	6,987
366 Strip Mall	198,818	9,951	1217.2	11168.2	12385.4	56.2	1	11,168	3,350	30.0%	1	11,168
367 Supermarket	20,926	2,438	128.1	2566.1	2694.2	122.6	6	15,397	3,997	26.0%	6	15,397
373 Supermarket	55,362	6,450	338.9	6788.9	7127.8	122.6	4	27,156	8,147	30.0%	4	27,156
377 Convenience M	6,500	5,388	39.8	5427.8	5467.6	835.0	2	10,856	3,257	30.0%	2	10,856
379 General Office	14,735	220	90.2	310.2	400.4	21.1	9	2,792	140	0.0%	0	0
388 General Office	81,941	1,224	501.7	1725.7	2227.4	21.1	3	5,177	259	0.0%	0	0
391 General Office	149,746	2,237	916.8	3153.8	4070.6	21.1	2	6,308	1,892	30.0%	2	6,308
393 General Office	253,929	3,793	1554.7	5347.7	6902.4	21.1	2	10,695	3,209	30.0%	2	10,695
395 General Office	449,750	6,717	2753.6	9470.6	12224.2	21.1	1	9,471	2,841	30.0%	1	9,471
396 Government Of	18,423	1,483	112.8	1595.8	1708.6	86.6	7	11,171	559	0.0%	0	0
403 Government Of	79,443	6,395	486.4	6881.4	7367.8	86.6	3	20,644	6,193	30.0%	3	20,644
406 Government Of	153,096	12,324	937.3	13261.3	14200.6	86.6	1	13,261	3,978	30.0%	1	13,261
407 Government Of	270,616	21,784	1656.8	23440.8	25097.6	86.6	1	23,441	7,032	30.0%	1	23,441
408 Pharmacy/Drug	14,750	1,459	90.3	1549.3	1639.6	105.0	4	6,197	310	0.0%	0	0
412 Hospital	35,837	804	219.4	1023.4	1242.8	28.6	1	1,023	51	0.0%	0	0
413 Hospital	60,942	1,367	373.1	1740.1	2113.2	28.6	1	1,740	87	0.0%	0	0
414 Hospital	130,377	2,924	798.2	3722.2	4520.4	28.5	1	3,722	1,117	30.0%	1	3,722
415 Hospital	140,915	3,160	862.7	4022.7	4885.4	28.5	1	4,023	1,207	30.0%	1	4,023
416 Warehouse	25,489	161	156.1	317.1	473.2	12.4	6	1,903	95	0.0%	0	0
422 Warehouse	68,963	435	422.2	857.2	1279.4	12.4	3	2,572	129	0.0%	0	0
425 Warehouse	142,590	899	873	1772	2645	12.4	2	3,544	177	0.0%	0	0
427 Warehouse	341,487	2,154	2090.7	4244.7	6335.4	12.4	1	4,245	1,273	30.0%	1	4,245
428 Warehouse	422,010	2,662	2583.7	5245.7	7829.4	12.4	1	5,246	1,574	30.0%	1	5,246
429 Warehouse	1,483,499	9,357	9082.6	18439.6	27522.2	12.4	1	18,440	5,532	30.0%	1	18,440
430 General Light In	15,036	145	92.1	237.1	329.2	15.8	4	948	47	0.0%	0	0
434 General Light In	73,119	704	447.7	1151.7	1599.4	15.8	1	1,152	58	0.0%	0	0
435 General Light In	76,001	732	465.3	1197.3	1662.6	15.8	1	1,197	60	0.0%	0	0
436 General Light In	318,980	3,073	1952.9	5025.9	6978.8	15.8	1	5,026	1,508	30.0%	1	5,026
<b>TOTAL</b>							<b>436</b>	<b>802,284</b>	<b>160,073</b>	<b>18.0%</b>	<b>65</b>	<b>495,213</b>
Threshold											<b>14.91%</b>	<b>61.73%</b>



Table E-13: GHG Land Use Sector Threshold Sensitivity Analysis

Threshold (MT)	1250		Housing equiv.	68	units	Projects Captured	21%					
Mitigation Effectiveness	25%		10-year total	1.6	MMT	Emissions Captured	67%					
Performance Standard	10%		1-year total	159,555	MT							
Project Type (Urbemis Category)	SF	Units	Direct CO2e	Indirect CO2e	Total CO2e /Project	CO2e/unit or SF	Projects	Total CO2e	CO2e Reductions	% reduction	Capture - Projects	Capture - Emissions
1 Single Family H	13,581	8	118	19.3	137.3	17.2	35	4,806	481	0.0%	0	0
36 Single Family H	72,914	41	636	103.6	739.6	18.0	7	5,177	518	0.0%	0	0
43 Single Family H	162,188	90	1,414	230.5	1644.5	18.3	4	6,578	1,578	24.0%	4	6,578
47 Single Family H	283,179	157	2,469	402.5	2871.5	18.3	5	14,358	3,589	25.0%	5	14,358
52 Single Family H	375,822	209	3,277	534.2	3811.2	18.2	2	7,622	1,906	25.0%	2	7,622
54 Single Family H	987,852	549	8,615	1404.2	10019.2	18.2	1	10,019	2,505	25.0%	1	10,019
55 Single Family H	1,160,504	645	10,120	1649.6	11769.6	18.2	1	11,770	2,942	25.0%	1	11,770
56 Single Family H	1,951,096	1084	17,015	2773.4	19788.4	18.3	1	19,788	4,947	25.0%	1	19,788
57 Single Family H	6,507,269	3615	56,747	9249.8	65996.8	18.3	2	131,994	32,998	25.0%	2	131,994
59 Apartments Low	19,196	23	251	57.8	308.8	13.4	3	926	93	0.0%	0	0
62 Apartments Low	63,135	74	825	190	1015	13.7	1	1,015	102	0.0%	0	0
63 Apartments Low	90,241	106	1,179	271.6	1450.6	13.7	1	1,451	201	0.0%	1	1,451
64 Apartments MI	36,229	43	410	109.1	519.1	12.1	1	519	52	0.0%	0	0
65 Apartments MI	70,194	83	794	211.3	1005.3	12.1	3	3,016	302	0.0%	0	0
68 Apartments MI	140,920	166	1,593	424.2	2017.2	12.2	4	8,069	2,017	25.0%	4	8,069
72 Apartments MI	254,225	299	2,874	765.3	3639.3	12.2	3	10,918	2,729	25.0%	3	10,918
75 Apartments MI	381,737	449	4,316	1149.1	5465.1	12.2	2	10,930	2,733	25.0%	2	10,930
77 Apartments Hig	94,057	111	996	283.1	1279.1	11.5	1	1,279	29	0.0%	1	1,279
78 Apartments Hig	129,764	153	1,374	390.6	1764.6	11.5	2	3,529	882	25.0%	2	3,529
80 Apartments Hig	266,322	313	2,819	801.7	3620.7	11.6	2	7,241	1,810	25.0%	2	7,241
82 Apartments Hig	363,340	427	3,846	1093.7	4939.7	11.6	1	4,940	1,235	25.0%	1	4,940
83 Apartments Hig	592,213	697	6,269	1782.6	8051.6	11.6	1	8,052	2,013	25.0%	1	8,052
84 Apartments Hig	1,733,443	2039	18,350	5217.9	23567.9	11.6	1	23,568	5,892	25.0%	1	23,568
85 Condo/Townho	19,977	24	261	60.1	321.1	13.4	10	3,211	321	0.0%	0	0
95 Condo/Townho	84,260	99	1,099	253.6	1352.6	13.7	2	2,705	205	0.0%	2	2,705
97 Condo/Townho	170,275	200	2,221	512.6	2733.6	13.7	2	5,467	1,367	25.0%	2	5,467
99 Condo/Townho	344,939	406	4,500	1038.3	5538.3	13.6	2	11,077	2,769	25.0%	2	11,077
101 Congregate Car	5,997	7	33	18.1	51.1	7.3	17	869	87	0.0%	0	0
118 Congregate Car	21,446	25	119	64.6	183.6	7.3	2	367	37	0.0%	0	0
120 Congregate Car	49,166	58	272	148	420	7.2	13	5,460	546	0.0%	0	0
133 Elementary Sch	5,859	112	35.9	147.9	183.8	25.2	26	3,845	385	0.0%	0	0
159 Elementary Sch	18,765	358	114.9	472.9	587.8	25.2	6	2,837	284	0.0%	0	0
165 Elementary Sch	43,162	823	264.3	1087.3	1351.6	25.2	2	2,175	217	0.0%	0	0
167 Elementary Sch	45,748	873	280.1	1153.1	1433.2	25.2	1	1,153	115	0.0%	0	0
168 University/Colle	16,573	517	101.5	618.5	720.0	37.3	1	619	62	0.0%	0	0
169 Place of Worth	21,230	258	130	388	528	18.3	7	2,716	272	0.0%	0	0
176 Place of Worth	92,499	1,126	566.3	1692.3	2258.6	18.3	1	1,692	423	25.0%	1	1,692
177 Place of Worth	103,892	1,264	636.1	1900.1	2536.2	18.3	1	1,900	475	25.0%	1	1,900
178 High Turnover (	8,013	1,168	49.1	1217.1	1519.2	151.9	160	194,736	19,474	0.0%	0	0
338 Hotel	15,336	333	93.9	426.9	520.8	27.8	2	854	85	0.0%	0	0
340 Hotel	69,278	1,504	424.1	1928.1	2352.2	27.8	1	1,928	482	25.0%	1	1,928
341 Hotel	89,812	1,950	549.9	2499.9	2949.8	27.8	1	2,500	625	25.0%	1	2,500
342 Strip Mall	13,660	684	83.6	767.6	851.2	56.2	21	16,120	1,612	0.0%	0	0
363 Strip Mall	62,207	3,114	380.9	3494.9	3875.8	56.2	2	6,990	1,747	25.0%	2	6,990
365 Strip Mall	124,371	6,225	761.5	6986.5	7748.0	56.2	1	6,987	1,747	25.0%	1	6,987
366 Strip Mall	198,818	9,951	1217.2	11168.2	12385.4	56.2	1	11,168	2,792	25.0%	1	11,168
367 Supermarket	20,926	2,438	128.1	2566.1	2694.2	122.6	6	15,397	3,849	25.0%	6	15,397
373 Supermarket	55,362	6,450	338.9	6788.9	7327.8	122.6	4	27,156	6,789	25.0%	4	27,156
377 Convenience M	6,500	5,388	39.8	5427.8	5467.6	835.0	2	10,856	2,714	25.0%	2	10,856
379 General Office	14,735	220	90.2	310.2	400.4	21.1	9	2,792	279	0.0%	0	0
388 General Office	81,941	1,224	501.7	1725.7	2227.4	21.1	3	5,177	1,294	25.0%	3	5,177
391 General Office	149,746	2,237	916.8	3153.8	4070.6	21.1	2	6,308	1,577	25.0%	2	6,308
393 General Office	253,929	3,793	1554.7	5347.7	6902.4	21.1	2	10,695	2,674	25.0%	2	10,695
395 General Office	449,750	6,717	2753.6	9470.6	12224.2	21.1	1	9,471	2,368	25.0%	1	9,471
396 Government Of	18,423	1,483	112.8	1595.8	1708.6	86.6	7	11,171	2,421	21.7%	7	11,171
403 Government Of	79,443	6,395	486.4	6881.4	7367.8	86.6	3	20,644	5,161	25.0%	3	20,644
406 Government Of	153,096	12,324	937.3	13261.3	14198.6	86.6	1	13,261	3,315	25.0%	1	13,261
407 Government Of	270,616	21,784	1656.8	23440.8	25097.6	86.6	1	23,441	5,860	25.0%	1	23,441
408 Pharmacy/Drug	14,750	1,459	90.3	1549.3	1639.6	105.0	4	6,197	1,197	0.0%	4	6,197
412 Hospital	35,837	804	219.4	1023.4	1242.8	28.6	1	1,023	102	0.0%	0	0
413 Hospital	60,942	1,367	373.1	1740.1	2113.2	28.6	1	1,740	435	25.0%	1	1,740
414 Hospital	130,377	2,924	798.2	3722.2	4520.4	28.5	1	3,722	931	25.0%	1	3,722
415 Hospital	140,915	3,160	862.7	4022.7	4885.4	28.5	1	4,023	1,006	25.0%	1	4,023
416 Warehouse	25,489	161	156.1	317.1	473.2	12.4	6	1,903	190	0.0%	0	0
422 Warehouse	68,963	435	422.2	857.2	1279.4	12.4	3	2,572	257	0.0%	0	0
425 Warehouse	142,590	899	873	1772	2645	12.4	2	3,544	886	25.0%	2	3,544
427 Warehouse	341,487	2,154	2090.7	4244.7	6335.4	12.4	1	4,245	1,061	25.0%	1	4,245
428 Warehouse	422,010	2,662	2583.7	5245.7	7829.4	12.4	1	5,246	1,311	25.0%	1	5,246
429 Warehouse	1,483,499	9,357	9082.6	18439.6	27522.2	12.4	1	18,440	4,610	25.0%	1	18,440
430 General Light In	15,036	145	92.1	237.1	329.2	15.8	4	948	95	0.0%	0	0
434 General Light In	73,119	704	447.7	1151.7	1600.4	15.8	1	1,152	115	0.0%	0	0
435 General Light In	76,001	732	465.3	1197.3	1662.6	15.8	1	1,197	120	0.0%	0	0
436 General Light In	318,980	3,073	1952.9	5025.9	6978.8	15.8	1	5,026	1,256	25.0%	1	5,026
<b>TOTAL</b>							<b>436</b>	<b>802,284</b>	<b>159,555</b>	<b>16.4%</b>	<b>93</b>	<b>540,277</b>
Threshold											<b>21.33%</b>	<b>67.34%</b>

Table E-14: GHG Land Use Sector Threshold Sensitivity Analysis

Threshold (MT)	3000	Housing equiv.	164	units	Projects Captured	10%						
Mitigation Effectiveness	30%	10-year total	1.5	MMT	Emissions Captured	56%						
Performance Standard	5%	1-year total	145,261	MT								
Project Type (Urbemis Category)	SF	Units	Direct CO2e	Indirect CO2e	Total CO2e /Project	CO2e/unit or SF	Projects	Total CO2e	CO2e Reductions	% reduction	Capture - Projects	Capture - Emissions
1 Single Family H	13,581	8	118	19.3	137.3	17.2	35	4,806	240	0.0%	0	0
36 Single Family H	72,914	41	636	103.6	739.6	18.0	7	5,177	259	0.0%	0	0
43 Single Family H	162,188	90	1,414	230.5	1644.5	18.3	4	6,578	329	0.0%	0	0
47 Single Family H	283,179	157	2,469	402.5	2871.5	18.3	5	14,358	718	0.0%	0	0
52 Single Family H	375,822	209	3,277	534.2	3811.2	18.2	2	7,622	1,622	0.0%	2	7,622
54 Single Family H	987,852	549	8,615	1404.2	10019.2	18.2	1	10,019	3,006	30.0%	1	10,019
55 Single Family H	1,160,504	645	10,120	1649.6	11769.6	18.2	1	11,770	3,531	30.0%	1	11,770
56 Single Family H	1,951,096	1084	17,015	2773.4	19788.4	18.3	1	19,788	5,937	30.0%	1	19,788
57 Single Family H	6,507,269	3615	56,747	9249.8	65996.8	18.3	2	131,994	39,598	30.0%	2	131,994
59 Apartments Low	19,196	23	251	57.8	308.8	13.4	3	926	46	0.0%	0	0
62 Apartments Low	63,135	74	825	190	1015	13.7	1	1,015	51	0.0%	0	0
63 Apartments Low	90,241	106	1,179	271.6	1450.6	13.7	1	1,451	73	0.0%	0	0
64 Apartments MI	36,229	43	410	109.1	519.1	12.1	1	519	26	0.0%	0	0
65 Apartments MI	70,194	83	794	211.3	1005.3	12.1	3	3,016	151	0.0%	0	0
68 Apartments MI	140,920	166	1,593	424.2	2017.2	12.2	4	8,069	403	0.0%	0	0
72 Apartments MI	254,225	299	2,874	765.3	3639.3	12.2	3	10,918	1,918	0.0%	3	10,918
75 Apartments MI	381,737	449	4,316	1149.1	5465.1	12.2	2	10,930	3,279	30.0%	2	10,930
77 Apartments Hig	94,057	111	996	283.1	1279.1	11.5	1	1,279	64	0.0%	0	0
78 Apartments Hig	129,764	153	1,374	390.6	1764.6	11.5	2	3,529	176	0.0%	0	0
80 Apartments Hig	266,322	313	2,819	801.7	3620.7	11.6	2	7,241	1,241	0.0%	2	7,241
82 Apartments Hig	363,340	427	3,846	1093.7	4939.7	11.6	1	4,940	1,482	30.0%	1	4,940
83 Apartments Hig	592,213	697	6,269	1782.6	8051.6	11.6	1	8,052	2,415	30.0%	1	8,052
84 Apartments Hig	1,733,443	2039	18,350	5217.9	23567.9	11.6	1	23,568	7,070	30.0%	1	23,568
85 Condo/Townho	19,977	24	261	60.1	321.1	13.4	10	3,211	161	0.0%	0	0
95 Condo/Townho	84,260	99	1,099	253.6	1352.6	13.7	2	2,705	135	0.0%	0	0
97 Condo/Townho	170,275	200	2,221	512.6	2733.6	13.7	2	5,467	273	0.0%	0	0
99 Condo/Townho	344,939	406	4,500	1038.3	5538.3	13.6	2	11,077	3,323	30.0%	2	11,077
101 Congregate Car	5,997	7	33	18.1	51.1	7.3	17	869	43	0.0%	0	0
118 Congregate Car	21,446	25	119	64.6	183.6	7.3	2	367	18	0.0%	0	0
120 Congregate Car	49,166	58	272	148	420	7.2	13	5,460	273	0.0%	0	0
133 Elementary Sch	5,859		112	35.9	147.9	25.2	26	3,845	192	0.0%	0	0
159 Elementary Sch	18,765		358	114.9	472.9	25.2	6	2,837	142	0.0%	0	0
165 Elementary Sch	43,162		823	264.3	1087.3	25.2	2	2,175	109	0.0%	0	0
167 Elementary Sch	45,748		873	280.1	1153.1	25.2	1	1,153	58	0.0%	0	0
168 University/Colle	16,573		517	101.5	618.5	37.3	1	619	31	0.0%	0	0
169 Place of Worth	21,230		258	130	388	18.3	7	2,716	136	0.0%	0	0
176 Place of Worth	92,499		1,126	566.3	1692.3	18.3	1	1,692	85	0.0%	0	0
177 Place of Worth	103,892		1,264	636.1	1900.1	18.3	1	1,900	95	0.0%	0	0
178 High Turnover (	8,013		1,168	49.1	1217.1	151.9	160	194,736	9,737	0.0%	0	0
338 Hotel	15,336		333	93.9	426.9	27.8	2	854	43	0.0%	0	0
340 Hotel	69,278		1,504	424.1	1928.1	27.8	1	1,928	96	0.0%	0	0
341 Hotel	89,812		1,950	549.9	2499.9	27.8	1	2,500	125	0.0%	0	0
342 Strip Mall	13,660		684	83.6	767.6	56.2	21	16,120	806	0.0%	0	0
363 Strip Mall	62,207		3,114	380.9	3494.9	56.2	2	6,990	990	0.0%	2	6,990
365 Strip Mall	124,371		6,225	761.5	6986.5	56.2	1	6,987	2,096	30.0%	1	6,987
366 Strip Mall	198,818		9,951	1217.2	11168.2	56.2	1	11,168	3,350	30.0%	1	11,168
367 Supermarket	20,926		2,438	128.1	2566.1	122.6	6	15,397	770	0.0%	0	0
373 Supermarket	55,362		6,450	338.9	6788.9	122.6	4	27,156	8,147	30.0%	4	27,156
377 Convenience M	6,500		5,388	39.8	5427.8	835.0	2	10,856	3,257	30.0%	2	10,856
379 General Office	14,735		220	90.2	310.2	21.1	9	2,792	140	0.0%	0	0
388 General Office	81,941		1,224	501.7	1725.7	21.1	3	5,177	259	0.0%	0	0
391 General Office	149,746		2,237	916.8	3153.8	21.1	2	6,308	308	0.0%	2	6,308
393 General Office	253,929		3,793	1554.7	5347.7	21.1	2	10,695	3,209	30.0%	2	10,695
395 General Office	449,750		6,717	2753.6	9470.6	21.1	1	9,471	2,841	30.0%	1	9,471
396 Government Of	18,423		1,483	112.8	1595.8	86.6	7	11,171	559	0.0%	0	0
403 Government Of	79,443		6,395	486.4	6881.4	86.6	3	20,644	6,193	30.0%	3	20,644
406 Government Of	153,096		12,324	937.3	13261.3	86.6	1	13,261	3,978	30.0%	1	13,261
407 Government Of	270,616		21,784	1656.8	23440.8	86.6	1	23,441	7,032	30.0%	1	23,441
408 Pharmacy/Drug	14,750		1,459	90.3	1549.3	105.0	4	6,197	310	0.0%	0	0
412 Hospital	35,837		804	219.4	1023.4	28.6	1	1,023	51	0.0%	0	0
413 Hospital	60,942		1,367	373.1	1740.1	28.6	1	1,740	87	0.0%	0	0
414 Hospital	130,377		2,924	798.2	3722.2	28.5	1	3,722	722	0.0%	1	3,722
415 Hospital	140,915		3,160	862.7	4022.7	28.5	1	4,023	1,023	25.4%	1	4,023
416 Warehouse	25,489		161	156.1	317.1	12.4	6	1,903	95	0.0%	0	0
422 Warehouse	68,963		435	422.2	857.2	12.4	3	2,572	129	0.0%	0	0
425 Warehouse	142,590		899	873	1772	12.4	2	3,544	177	0.0%	0	0
427 Warehouse	341,487		2,154	2090.7	4244.7	12.4	1	4,245	1,245	29.3%	1	4,245
428 Warehouse	422,010		2,662	2583.7	5245.7	12.4	1	5,246	1,574	30.0%	1	5,246
429 Warehouse	1,483,499		9,357	9082.6	18439.6	12.4	1	18,440	5,532	30.0%	1	18,440
430 General Light In	15,036		145	92.1	237.1	15.8	4	948	47	0.0%	0	0
434 General Light In	73,119		704	447.7	1151.7	15.8	1	1,152	58	0.0%	0	0
435 General Light In	76,001		732	465.3	1197.3	15.8	1	1,197	60	0.0%	0	0
436 General Light In	318,980		3,073	1952.9	5025.9	15.8	1	5,026	1,508	30.0%	1	5,026
<b>TOTAL</b>							<b>436</b>	<b>802,284</b>	<b>145,261</b>	<b>15.0%</b>	<b>45</b>	<b>445,595</b>
Threshold											<b>10.32%</b>	<b>55.54%</b>

Table E-15: GHG Land Use Sector Threshold Sensitivity Analysis

Threshold (MT)	2000	Housing equiv.	109	units	Projects Captured	14%						
Mitigation Effectiveness	25%	10-year total	1.5	MMT	Emissions Captured	61%						
Performance Standard	10%	1-year total	151,410	MT								
Project Type (Urbemis Category)	SF	Units	Direct CO2e	Indirect CO2e	Total CO2e /Project	CO2e/unit or SF	Projects	Total CO2e	CO2e Reductions	% reduction	Capture - Projects	Capture - Emissions
1 Single Family H	13,581	8	118	19.3	137.3	17.2	35	4,806	481	0.0%	0	0
36 Single Family H	72,914	41	636	103.6	739.6	18.0	7	5,177	518	0.0%	0	0
43 Single Family H	162,188	90	1,414	230.5	1644.5	18.3	4	6,578	658	0.0%	0	0
47 Single Family H	283,179	157	2,469	402.5	2871.5	18.3	5	14,358	3,589	25.0%	5	14,358
52 Single Family H	375,822	209	3,277	534.2	3811.2	18.2	2	7,622	1,906	25.0%	2	7,622
54 Single Family H	987,852	549	8,615	1404.2	10019.2	18.2	1	10,019	2,505	25.0%	1	10,019
55 Single Family H	1,160,504	645	10,120	1649.6	11769.6	18.2	1	11,770	2,942	25.0%	1	11,770
56 Single Family H	1,951,096	1084	17,015	2773.4	19788.4	18.3	1	19,788	4,947	25.0%	1	19,788
57 Single Family H	6,507,269	3615	56,747	9249.8	65996.8	18.3	2	131,994	32,998	25.0%	2	131,994
59 Apartments Low	19,196	23	251	57.8	308.8	13.4	3	926	93	0.0%	0	0
62 Apartments Low	63,135	74	825	190	1015	13.7	1	1,015	102	0.0%	0	0
63 Apartments Low	90,241	106	1,179	271.6	1450.6	13.7	1	1,451	145	0.0%	0	0
64 Apartments MI	36,229	43	410	109.1	519.1	12.1	1	519	52	0.0%	0	0
65 Apartments MI	70,194	83	794	211.3	1005.3	12.1	3	3,016	302	0.0%	0	0
68 Apartments MI	140,920	166	1,593	424.2	2017.2	12.2	4	8,069	69	0.0%	4	8,069
72 Apartments MI	254,225	299	2,874	765.3	3639.3	12.2	3	10,918	2,729	25.0%	3	10,918
75 Apartments MI	381,737	449	4,316	1149.1	5465.1	12.2	2	10,930	2,733	25.0%	2	10,930
77 Apartments Hig	94,057	111	996	283.1	1279.1	11.5	1	1,279	128	0.0%	0	0
78 Apartments Hig	129,764	153	1,374	390.6	1764.6	11.5	2	3,529	353	0.0%	0	0
80 Apartments Hig	266,322	313	2,819	801.7	3620.7	11.6	2	7,241	1,810	25.0%	2	7,241
82 Apartments Hig	363,340	427	3,846	1093.7	4939.7	11.6	1	4,940	1,235	25.0%	1	4,940
83 Apartments Hig	592,213	697	6,269	1782.6	8051.6	11.6	1	8,052	2,013	25.0%	1	8,052
84 Apartments Hig	1,733,443	2039	18,350	5217.9	23567.9	11.6	1	23,568	5,892	25.0%	1	23,568
85 Condo/Townho	19,977	24	261	60.1	321.1	13.4	10	3,211	321	0.0%	0	0
95 Condo/Townho	84,260	99	1,099	253.6	1352.6	13.7	2	2,705	271	0.0%	0	0
97 Condo/Townho	170,275	200	2,221	512.6	2733.6	13.7	2	5,467	1,367	25.0%	2	5,467
99 Condo/Townho	344,939	406	4,500	1038.3	5538.3	13.6	2	11,077	2,769	25.0%	2	11,077
101 Congregate Car	5,997	7	33	18.1	51.1	7.3	17	869	87	0.0%	0	0
118 Congregate Car	21,446	25	119	64.6	183.6	7.3	2	367	37	0.0%	0	0
120 Congregate Car	49,166	58	272	148	420	7.2	13	5,460	546	0.0%	0	0
133 Elementary Sch	5,859		112	35.9	147.9	25.2	26	3,845	385	0.0%	0	0
159 Elementary Sch	18,765		358	114.9	472.9	25.2	6	2,837	284	0.0%	0	0
165 Elementary Sch	43,162		823	264.3	1087.3	25.2	2	2,175	217	0.0%	0	0
167 Elementary Sch	45,748		873	280.1	1153.1	25.2	1	1,153	115	0.0%	0	0
168 University/Colle	16,573		517	101.5	618.5	37.3	1	619	62	0.0%	0	0
169 Place of Worth	21,230		258	130	388	18.3	7	2,716	272	0.0%	0	0
176 Place of Worth	92,499		1,126	566.3	1692.3	18.3	1	1,692	169	0.0%	0	0
177 Place of Worth	103,892		1,264	636.1	1900.1	18.3	1	1,900	190	0.0%	0	0
178 High Turnover (	8,013		1,168	49.1	1217.1	151.9	160	194,736	19,474	0.0%	0	0
338 Hotel	15,336		333	93.9	426.9	27.8	2	854	85	0.0%	0	0
340 Hotel	69,278		1,504	424.1	1928.1	27.8	1	1,928	193	0.0%	0	0
341 Hotel	89,812		1,950	549.9	2499.9	27.8	1	2,500	500	0.0%	1	2,500
342 Strip Mall	13,660		684	83.6	767.6	56.2	21	16,120	1,612	0.0%	0	0
363 Strip Mall	62,207		3,114	380.9	3494.9	56.2	2	6,990	1,747	25.0%	2	6,990
365 Strip Mall	124,371		6,225	761.5	6986.5	56.2	1	6,987	1,747	25.0%	1	6,987
366 Strip Mall	198,818		9,951	1217.2	11168.2	56.2	1	11,168	2,792	25.0%	1	11,168
367 Supermarket	20,926		2,438	128.1	2566.1	122.6	6	15,397	3,397	22.1%	6	15,397
373 Supermarket	55,362		6,450	338.9	6788.9	122.6	4	27,156	6,789	25.0%	4	27,156
377 Convenience M	6,500		5,388	39.8	5427.8	835.0	2	10,856	2,714	25.0%	2	10,856
379 General Office	14,735		220	90.2	310.2	21.1	9	2,792	279	0.0%	0	0
388 General Office	81,941		1,224	501.7	1725.7	21.1	3	5,177	518	0.0%	0	0
391 General Office	149,746		2,237	916.8	3153.8	21.1	2	6,308	1,577	25.0%	2	6,308
393 General Office	253,929		3,793	1554.7	5347.7	21.1	2	10,695	2,674	25.0%	2	10,695
395 General Office	449,750		6,717	2753.6	9470.6	21.1	1	9,471	2,368	25.0%	1	9,471
396 Government Of	18,423		1,483	112.8	1595.8	86.6	7	11,171	1,117	0.0%	0	0
403 Government Of	79,443		6,395	486.4	6881.4	86.6	3	20,644	5,161	25.0%	3	20,644
406 Government Of	153,096		12,324	937.3	13261.3	86.6	1	13,261	3,315	25.0%	1	13,261
407 Government Of	270,616		21,784	1656.8	23440.8	86.6	1	23,441	5,860	25.0%	1	23,441
408 Pharmacy/Drug	14,750		1,459	90.3	1549.3	105.0	4	6,197	620	0.0%	0	0
412 Hospital	35,837		804	219.4	1023.4	28.6	1	1,023	102	0.0%	0	0
413 Hospital	60,942		1,367	373.1	1740.1	28.6	1	1,740	174	0.0%	0	0
414 Hospital	130,377		2,924	798.2	3722.2	28.5	1	3,722	931	25.0%	1	3,722
415 Hospital	140,915		3,160	862.7	4022.7	28.5	1	4,023	1,006	25.0%	1	4,023
416 Warehouse	25,489		161	156.1	317.1	12.4	6	1,903	190	0.0%	0	0
422 Warehouse	68,963		435	422.2	857.2	12.4	3	2,572	257	0.0%	0	0
425 Warehouse	142,590		899	873	1772	12.4	2	3,544	354	0.0%	0	0
427 Warehouse	341,487		2,154	2090.7	4244.7	12.4	1	4,245	1,061	25.0%	1	4,245
428 Warehouse	422,010		2,662	2583.7	5245.7	12.4	1	5,246	1,311	25.0%	1	5,246
429 Warehouse	1,483,499		9,357	9082.6	18439.6	12.4	1	18,440	4,610	25.0%	1	18,440
430 General Light In	15,036		145	92.1	237.1	15.8	4	948	95	0.0%	0	0
434 General Light In	73,119		704	447.7	1151.7	15.8	1	1,152	115	0.0%	0	0
435 General Light In	76,001		732	465.3	1197.3	15.8	1	1,197	120	0.0%	0	0
436 General Light In	318,980		3,073	1952.9	5025.9	15.8	1	5,026	1,256	25.0%	1	5,026
<b>TOTAL</b>							<b>436</b>	<b>802,284</b>	<b>151,410</b>	<b>14.9%</b>	<b>63</b>	<b>491,385</b>
Threshold											<b>14.45%</b>	<b>61.25%</b>

Table E-16: GHG Land Use Sector Threshold Sensitivity Analysis

Threshold (MT)	3000	Housing equiv.	164	units	Projects Captured	10%						
Mitigation Effectiveness	30%	10-year total	1.6	MMT	Emissions Captured	56%						
Performance Standard	10%	1-year total	163,095	MT								
Project Type (Urbemis Category)	SF	Units	Direct CO2e	Indirect CO2e	Total CO2e /Project	CO2e/unit or SF	Projects	Total CO2e	CO2e Reductions	% reduction	Capture - Projects	Capture - Emissions
1 Single Family H	13,581	8	118	19.3	137.3	17.2	35	4,806	481	0.0%	0	0
36 Single Family H	72,914	41	636	103.6	739.6	18.0	7	5,177	518	0.0%	0	0
43 Single Family H	162,188	90	1,414	230.5	1644.5	18.3	4	6,578	658	0.0%	0	0
47 Single Family H	283,179	157	2,469	402.5	2871.5	18.3	5	14,358	1,436	0.0%	0	0
52 Single Family H	375,822	209	3,277	534.2	3811.2	18.2	2	7,622	1,622	0.0%	2	7,622
54 Single Family H	987,852	549	8,615	1404.2	10019.2	18.2	1	10,019	3,006	30.0%	1	10,019
55 Single Family H	1,160,504	645	10,120	1649.6	11769.6	18.2	1	11,770	3,531	30.0%	1	11,770
56 Single Family H	1,951,096	1084	17,015	2773.4	19788.4	18.3	1	19,788	5,937	30.0%	1	19,788
57 Single Family H	6,507,269	3615	56,747	9249.8	65996.8	18.3	2	131,994	39,598	30.0%	2	131,994
59 Apartments Low	19,196	23	251	57.8	308.8	13.4	3	926	93	0.0%	0	0
62 Apartments Low	63,135	74	825	190	1015	13.7	1	1,015	102	0.0%	0	0
63 Apartments Low	90,241	106	1,179	271.6	1450.6	13.7	1	1,451	145	0.0%	0	0
64 Apartments MI	36,229	43	410	109.1	519.1	12.1	1	519	52	0.0%	0	0
65 Apartments MI	70,194	83	794	211.3	1005.3	12.1	3	3,016	302	0.0%	0	0
68 Apartments MI	140,920	166	1,593	424.2	2017.2	12.2	4	8,069	807	0.0%	0	0
72 Apartments MI	254,225	299	2,874	765.3	3639.3	12.2	3	10,918	1,918	0.0%	3	10,918
75 Apartments MI	381,737	449	4,316	1149.1	5465.1	12.2	2	10,930	3,279	30.0%	2	10,930
77 Apartments Hig	94,057	111	996	283.1	1279.1	11.5	1	1,279	128	0.0%	0	0
78 Apartments Hig	129,764	153	1,374	390.6	1764.6	11.5	2	3,529	353	0.0%	0	0
80 Apartments Hig	266,322	313	2,819	801.7	3620.7	11.6	2	7,241	1,241	0.0%	2	7,241
82 Apartments Hig	363,340	427	3,846	1093.7	4939.7	11.6	1	4,940	1,482	30.0%	1	4,940
83 Apartments Hig	592,213	697	6,269	1782.6	8051.6	11.6	1	8,052	2,415	30.0%	1	8,052
84 Apartments Hig	1,733,443	2039	18,350	5217.9	23567.9	11.6	1	23,568	7,070	30.0%	1	23,568
85 Condo/Townho	19,977	24	261	60.1	321.1	13.4	10	3,211	321	0.0%	0	0
95 Condo/Townho	84,260	99	1,099	253.6	1352.6	13.7	2	2,705	271	0.0%	0	0
97 Condo/Townho	170,275	200	2,221	512.6	2733.6	13.7	2	5,467	547	0.0%	0	0
99 Condo/Townho	344,939	406	4,500	1038.3	5538.3	13.6	2	11,077	3,323	30.0%	2	11,077
101 Congregate Car	5,997	7	33	18.1	51.1	7.3	17	869	87	0.0%	0	0
118 Congregate Car	21,446	25	119	64.6	183.6	7.3	2	367	37	0.0%	0	0
120 Congregate Car	49,166	58	272	148	420	7.2	13	5,460	546	0.0%	0	0
133 Elementary Sch	5,859		112	35.9	147.9	25.2	26	3,845	385	0.0%	0	0
159 Elementary Sch	18,765		358	114.9	472.9	25.2	6	2,837	284	0.0%	0	0
165 Elementary Sch	43,162		823	264.3	1087.3	25.2	2	2,175	217	0.0%	0	0
167 Elementary Sch	45,748		873	280.1	1153.1	25.2	1	1,153	115	0.0%	0	0
168 University/Colle	16,573		517	101.5	618.5	37.3	1	619	62	0.0%	0	0
169 Place of Worth	21,230		258	130	388	18.3	7	2,716	272	0.0%	0	0
176 Place of Worth	92,499		1,126	566.3	1692.3	18.3	1	1,692	169	0.0%	0	0
177 Place of Worth	103,892		1,264	636.1	1900.1	18.3	1	1,900	190	0.0%	0	0
178 High Turnover (	8,013		1,168	49.1	1217.1	151.9	160	194,736	19,474	0.0%	0	0
338 Hotel	15,336		333	93.9	426.9	27.8	2	854	85	0.0%	0	0
340 Hotel	69,278		1,504	424.1	1928.1	27.8	1	1,928	193	0.0%	0	0
341 Hotel	89,812		1,950	549.9	2499.9	27.8	1	2,500	250	0.0%	0	0
342 Strip Mall	13,660		684	83.6	767.6	56.2	21	16,120	1,612	0.0%	0	0
363 Strip Mall	62,207		3,114	380.9	3494.9	56.2	2	6,990	990	0.0%	2	6,990
365 Strip Mall	124,371		6,225	761.5	6986.5	56.2	1	6,987	2,096	30.0%	1	6,987
366 Strip Mall	198,818		9,951	1217.2	11168.2	56.2	1	11,168	3,350	30.0%	1	11,168
367 Supermarket	20,926		2,438	128.1	2566.1	122.6	6	15,397	1,540	0.0%	0	0
373 Supermarket	55,362		6,450	338.9	6788.9	122.6	4	27,156	8,147	30.0%	4	27,156
377 Convenience M	6,500		5,388	39.8	5427.8	835.0	2	10,856	3,257	30.0%	2	10,856
379 General Office	14,735		220	90.2	310.2	21.1	9	2,792	279	0.0%	0	0
388 General Office	81,941		1,224	501.7	1725.7	21.1	3	5,177	518	0.0%	0	0
391 General Office	149,746		2,237	916.8	3153.8	21.1	2	6,308	308	0.0%	2	6,308
393 General Office	253,929		3,793	1554.7	5347.7	21.1	2	10,695	3,209	30.0%	2	10,695
395 General Office	449,750		6,717	2753.6	9470.6	21.1	1	9,471	2,841	30.0%	1	9,471
396 Government Of	18,423		1,483	112.8	1595.8	86.6	7	11,171	1,117	0.0%	0	0
403 Government Of	79,443		6,395	486.4	6881.4	86.6	3	20,644	6,193	30.0%	3	20,644
406 Government Of	153,096		12,324	937.3	13261.3	86.6	1	13,261	3,978	30.0%	1	13,261
407 Government Of	270,616		21,784	1656.8	23440.8	86.6	1	23,441	7,032	30.0%	1	23,441
408 Pharmacy/Drug	14,750		1,459	90.3	1549.3	105.0	4	6,197	620	0.0%	0	0
412 Hospital	35,837		804	219.4	1023.4	28.6	1	1,023	102	0.0%	0	0
413 Hospital	60,942		1,367	373.1	1740.1	28.6	1	1,740	174	0.0%	0	0
414 Hospital	130,377		2,924	798.2	3722.2	28.5	1	3,722	722	0.0%	1	3,722
415 Hospital	140,915		3,160	862.7	4022.7	28.5	1	4,023	1,023	25.4%	1	4,023
416 Warehouse	25,489		161	156.1	317.1	12.4	6	1,903	190	0.0%	0	0
422 Warehouse	68,963		435	422.2	857.2	12.4	3	2,572	257	0.0%	0	0
425 Warehouse	142,590		899	873	1772	12.4	2	3,544	354	0.0%	0	0
427 Warehouse	341,487		2,154	2090.7	4244.7	12.4	1	4,245	1,245	29.3%	1	4,245
428 Warehouse	422,010		2,662	2583.7	5245.7	12.4	1	5,246	1,574	30.0%	1	5,246
429 Warehouse	1,483,499		9,357	9082.6	18439.6	12.4	1	18,440	5,532	30.0%	1	18,440
430 General Light In	15,036		145	92.1	237.1	15.8	4	948	95	0.0%	0	0
434 General Light In	73,119		704	447.7	1151.7	15.8	1	1,152	115	0.0%	0	0
435 General Light In	76,001		732	465.3	1197.3	15.8	1	1,197	120	0.0%	0	0
436 General Light In	318,980		3,073	1952.9	5025.9	15.8	1	5,026	1,508	30.0%	1	5,026
<b>TOTAL</b>							<b>436</b>	<b>802,284</b>	<b>163,095</b>	<b>15.0%</b>	<b>45</b>	<b>445,595</b>
Threshold											<b>10.32%</b>	<b>55.54%</b>

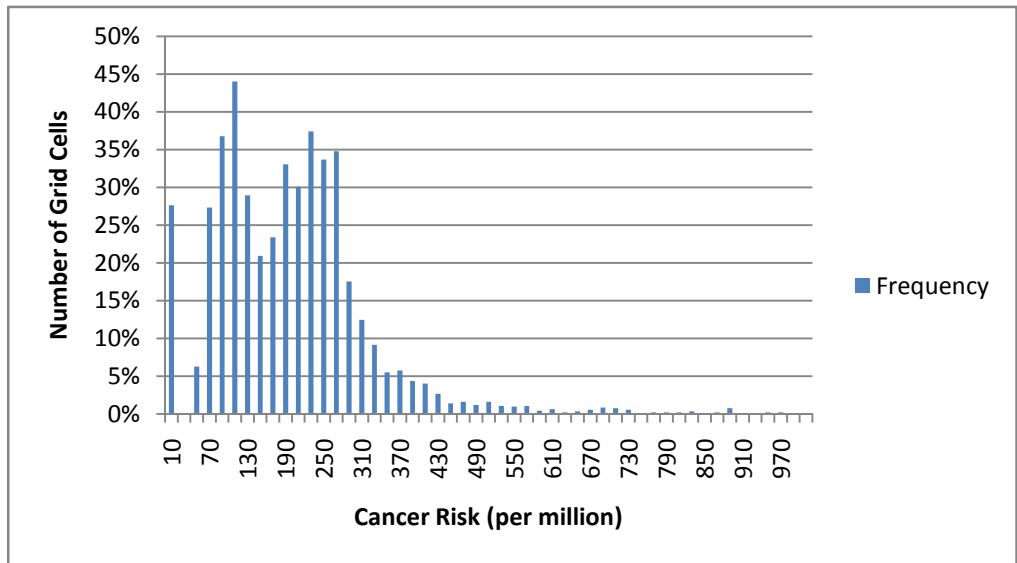
## **APPENDIX F**

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TAC Unweighted Cancer Risk

<i>Bin</i>	<i>Frequency</i>	
10	28%	1040
30	0%	4
50	6%	236
70	27%	1028
90	37%	1384
110	44%	1656
130	29%	1088
150	21%	788
170	23%	880
190	33%	1244
210	30%	1132
230	37%	1408
250	34%	1268
270	35%	1308
290	18%	660
310	12%	468
330	9%	344
350	6%	208
370	6%	216
390	4%	164
410	4%	152
430	3%	100
450	1%	52
470	2%	60
490	1%	44
510	2%	60
530	1%	40
550	1%	36
570	1%	40
590	0%	16
610	1%	24
630	0%	8
650	0%	12
670	1%	20
690	1%	32
710	1%	28
730	1%	20
750	0%	0
770	0%	8
790	0%	8
810	0%	8
830	0%	12
850	0%	0
870	0%	8
890	1%	28
910	0%	0
930	0%	4
950	0%	8
970	0%	8
990	0%	0
1010	0%	0
More		64

Bay Area Unweighted Cancer Risk



## **APPENDIX G**

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TAC Population Weighted Cancer Risk

TOTAL  
BAAQMD  
#####

Risk	Pop	% of pop	Percentiles
100	337	0%	0%
200	131,610	2%	2%
300	755,187	11%	13%
400	1,220,660	19%	32%
500	1,179,851	18%	50%
600	874,853	13%	63%
700	931,151	14%	77%
800	406,287	6%	83%
900	419,319	6%	90%
1000	143,433	2%	92%
1100	91,695	1%	93%
1200	7,148	0%	94%
1300	89,000	1%	95%
1400	35,596	1%	95%
1500	39,264	1%	96%
1600	86,083	1%	97%
1700	6,433	0%	97%
1800	6,801	0%	98%
1900	7,508	0%	98%
3000	23,614	0%	98%

