

## **Appendix A**

# **Estimated Greenhouse Gas Emissions**



**Estimated Greenhouse Gas Emissions for Existing Campus (850,000 sf)**

**Section I: Buildings**

Type (Residential) or Principal Activity (Commercial)	# Units	Square Feet (in thousands of square feet)	Emissions Per Unit or Per Thousand Square Feet (MTCO2e)			Lifespan Emissions (MTCO2e)
			Embodied	Energy	Transportation	
Single-Family Home.....	0		98	672	792	0
Multi-Family Unit in Large Building .....	0		33	357	766	0
Multi-Family Unit in Small Building .....	0		54	681	766	0
Mobile Home.....	0		41	475	709	0
Education .....		0.0	39	646	361	0
Food Sales .....		0.0	39	1,541	282	0
Food Service .....		24.0	39	1,994	561	62251
Health Care Inpatient .....		253.0	39	1,938	582	647326
Health Care Outpatient .....		257.0	39	737	571	346062
Lodging .....		0.0	39	777	117	0
Retail (Other Than Mall).....		5.5	39	577	247	4745
Office .....		166.0	39	723	588	223991
Public Assembly .....		0.0	39	733	150	0
Public Order and Safety .....		0.0	39	899	374	0
Religious Worship .....		0.0	39	339	129	0
Service .....		81.0	39	599	266	73230
Warehouse and Storage .....		0.0	39	352	181	0
Other .....		27.0	39	1,278	257	42503
Vacant .....		33.0	39	162	47	8165

846.5

**Section II: Pavement.....**

Pavement.....		231.00				11550
---------------	--	--------	--	--	--	-------

**Total Project Emissions:**

**1419823**

**Estimated Greenhouse Gas Emissions for Full Build-out (2.4 million sf)**

**Section I: Buildings**

Type (Residential) or Principal Activity (Commercial)	# Units	Square Feet (in thousands of square feet)	Emissions Per Unit or Per Thousand Square Feet (MTCO2e)			Lifespan Emissions (MTCO2e)
			Embodied	Energy	Transportation	
Single-Family Home.....	0		98	672	792	0
Multi-Family Unit in Large Building .....	0		33	357	766	0
Multi-Family Unit in Small Building .....	0		54	681	766	0
Mobile Home.....	0		41	475	709	0
Education .....		0.0	39	646	361	0
Food Sales .....		0.0	39	1,541	282	0
Food Service .....		64.0	39	1,994	561	166004
Health Care Inpatient .....		906.6	39	1,938	582	2319628
Health Care Outpatient .....		258.0	39	737	571	347408
Lodging .....		0.0	39	777	117	0
Retail (Other Than Mall).....		5.5	39	577	247	4745
Office .....		835.3	39	723	588	1127108
Public Assembly .....		0.0	39	733	150	0
Public Order and Safety .....		0.0	39	899	374	0
Religious Worship .....		0.0	39	339	129	0
Service .....		330.6	39	599	266	298885
Warehouse and Storage .....		0.0	39	352	181	0
Other .....		0.0	39	1,278	257	0
Vacant .....		0.0	39	162	47	0

2,400.0

**Section II: Pavement.....**

Pavement.....		231.00				11550
---------------	--	--------	--	--	--	-------

**Total Project Emissions:**

**4275328**