

Castilian Hall Redevelopment Yolo County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric
Apartments Mid Rise	215	Dwelling Unit

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Utility Company	Pacific Gas & Electric Company
Climate Zone	2	Precipitation Freq (Days)	54		

1.3 User Entered Comments

Project Characteristics -

Land Use - Project population not to exceed 275. Square footage set to 600 sf per students. Unit amount set to 2/3 single bedroom and 1/3 two bedroom with one person per bedroom.

Construction Phase - Site Demolition set to 35 days to account for demolition of the existing buildings and site infrastructure.

Demolition -

Vehicle Trips - Trip rates set to zero based on project not creating a net new increase in traffic trips.

Construction Off-road Equipment Mitigation -

Energy Mitigation -

Waste Mitigation -

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2011	1.11	7.21		0.01	0.50	0.44	0.94	0.06	0.44	0.50						816.60
2012	2.64	0.35		0.00	0.01	0.03	0.04	0.00	0.03	0.03						34.32
Total	3.75	7.56		0.01	0.51	0.47	0.98	0.06	0.47	0.53						850.92

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2011	1.11	7.21		0.01	0.50	0.44	0.94	0.06	0.44	0.50						816.60
2012	2.64	0.35		0.00	0.01	0.03	0.04	0.00	0.03	0.03						34.32
Total	3.75	7.56		0.01	0.51	0.47	0.98	0.06	0.47	0.53						850.92

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Area	14.47	0.20		0.01		0.00	2.36		0.00	2.36							515.05
Energy	0.02	0.13		0.00		0.00	0.01		0.00	0.01							385.12
Mobile	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
Waste						0.00	0.00		0.00	0.00							44.99
Water						0.00	0.00		0.00	0.00							43.66
Total	14.49	0.33		0.01	0.00	0.00	2.37	0.00	0.00	2.37							988.82

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Area	14.47	0.20		0.01		0.00	2.36		0.00	2.36							515.05
Energy	0.01	0.11		0.00		0.00	0.01		0.00	0.01							342.76
Mobile	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
Waste						0.00	0.00		0.00	0.00							40.49
Water						0.00	0.00		0.00	0.00							43.66
Total	14.48	0.31		0.01	0.00	0.00	2.37	0.00	0.00	2.37							941.96

3.0 Construction Detail

3.1 Mitigation Measures Construction

Clean Paved Roads

3.2 Demolition - 2011

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Fugitive Dust					0.05	0.00	0.05	0.01	0.00	0.01							0.00
Off-Road	0.17	1.40		0.00		0.07	0.07		0.07	0.07							119.50
Total	0.17	1.40		0.00	0.05	0.07	0.12	0.01	0.07	0.08							119.50

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Hauling	0.01	0.16		0.00	0.16	0.01	0.17	0.00	0.01	0.01							18.38
Vendor	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
Worker	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00							2.32
Total	0.01	0.16		0.00	0.16	0.01	0.17	0.00	0.01	0.01							20.70

3.2 Demolition - 2011

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Fugitive Dust					0.05	0.00	0.05	0.01	0.00	0.01							0.00
Off-Road	0.17	1.40		0.00		0.07	0.07		0.07	0.07							119.50
Total	0.17	1.40		0.00	0.05	0.07	0.12	0.01	0.07	0.08							119.50

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Hauling	0.01	0.16		0.00	0.16	0.01	0.17	0.00	0.01	0.01							18.38
Vendor	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
Worker	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00							2.32
Total	0.01	0.16		0.00	0.16	0.01	0.17	0.00	0.01	0.01							20.70

3.3 Site Preparation - 2011

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Fugitive Dust					0.05	0.00	0.05	0.02	0.00	0.02							0.00
Off-Road	0.03	0.22		0.00		0.01	0.01		0.01	0.01							18.18
Total	0.03	0.22		0.00	0.05	0.01	0.06	0.02	0.01	0.03							18.18

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Hauling	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
Vendor	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
Worker	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.40
Total	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.40

3.3 Site Preparation - 2011

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.05	0.00	0.05	0.02	0.00	0.02						0.00
Off-Road	0.03	0.22		0.00		0.01	0.01		0.01	0.01						18.18
Total	0.03	0.22		0.00	0.05	0.01	0.06	0.02	0.01	0.03						18.18

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
Vendor	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
Worker	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.40
Total	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.40

3.4 Grading - 2011

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Fugitive Dust					0.03	0.00	0.03	0.01	0.00	0.01							0.00
Off-Road	0.03	0.22		0.00		0.01	0.01		0.01	0.01							19.06
Total	0.03	0.22		0.00	0.03	0.01	0.04	0.01	0.01	0.02							19.06

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Hauling	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
Vendor	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
Worker	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.53
Total	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.53

3.4 Grading - 2011

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Fugitive Dust					0.03	0.00	0.03	0.01	0.00	0.01							0.00
Off-Road	0.03	0.22		0.00		0.01	0.01		0.01	0.01							19.06
Total	0.03	0.22		0.00	0.03	0.01	0.04	0.01	0.01	0.02							19.06

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Hauling	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
Vendor	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
Worker	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.53
Total	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.53

3.5 Building Construction - 2011

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Off-Road	0.69	4.56		0.00		0.32	0.32		0.32	0.32							417.11
Total	0.69	4.56		0.00		0.32	0.32		0.32	0.32							417.11

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Hauling	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
Vendor	0.04	0.50		0.00	0.02	0.02	0.04	0.00	0.02	0.02							65.55
Worker	0.13	0.15		0.00	0.19	0.01	0.20	0.01	0.01	0.02							155.57
Total	0.17	0.65		0.00	0.21	0.03	0.24	0.01	0.03	0.04							221.12

3.5 Building Construction - 2011

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Off-Road	0.69	4.56		0.00		0.32	0.32		0.32	0.32							417.11
Total	0.69	4.56		0.00		0.32	0.32		0.32	0.32							417.11

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Hauling	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
Vendor	0.04	0.50		0.00	0.02	0.02	0.04	0.00	0.02	0.02							65.55
Worker	0.13	0.15		0.00	0.19	0.01	0.20	0.01	0.01	0.02							155.57
Total	0.17	0.65		0.00	0.21	0.03	0.24	0.01	0.03	0.04							221.12

3.5 Building Construction - 2012

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.01	0.06		0.00		0.00	0.00		0.00	0.00						5.51
Total	0.01	0.06		0.00		0.00	0.00		0.00	0.00						5.51

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
Vendor	0.00	0.01		0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.87
Worker	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00						2.01
Total	0.00	0.01		0.00	0.00	0.00	0.00	0.00	0.00	0.00						2.88

3.5 Building Construction - 2012

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Off-Road	0.01	0.06		0.00		0.00	0.00		0.00	0.00							5.51
Total	0.01	0.06		0.00		0.00	0.00		0.00	0.00							5.51

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Hauling	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
Vendor	0.00	0.01		0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.87
Worker	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00							2.01
Total	0.00	0.01		0.00	0.00	0.00	0.00	0.00	0.00	0.00							2.88

3.6 Paving - 2012

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Off-Road	0.04	0.25		0.00		0.02	0.02		0.02	0.02							19.67
Paving	0.00					0.00	0.00		0.00	0.00							0.00
Total	0.04	0.25		0.00		0.02	0.02		0.02	0.02							19.67

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Hauling	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
Vendor	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
Worker	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00							1.56
Total	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00							1.56

3.6 Paving - 2012

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Off-Road	0.04	0.25		0.00		0.02	0.02		0.02	0.02							19.67
Paving	0.00					0.00	0.00		0.00	0.00							0.00
Total	0.04	0.25		0.00		0.02	0.02		0.02	0.02							19.67

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Hauling	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
Vendor	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
Worker	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00							1.56
Total	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00							1.56

3.7 Architectural Coating - 2012

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.58					0.00	0.00		0.00	0.00						0.00
Off-Road	0.00	0.03		0.00		0.00	0.00		0.00	0.00						2.30
Total	2.58	0.03		0.00		0.00	0.00		0.00	0.00						2.30

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
Vendor	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
Worker	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00						2.41
Total	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00						2.41

3.7 Architectural Coating - 2012

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.58					0.00	0.00		0.00	0.00						0.00
Off-Road	0.00	0.03		0.00		0.00	0.00		0.00	0.00						2.30
Total	2.58	0.03		0.00		0.00	0.00		0.00	0.00						2.30

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
Vendor	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
Worker	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00						2.41
Total	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00						2.41

4.0 Mobile Detail

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Mitigated	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
Unmitigated	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW
Apartments Mid Rise	10.80	7.30	7.50	42.60	21.00	36.40

5.0 Energy Detail

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.00	0.00		0.00	0.00						214.52
Electricity Unmitigated						0.00	0.00		0.00	0.00						230.51
NaturalGas Mitigated	0.01	0.11		0.00		0.00	0.01		0.00	0.01						128.24
NaturalGas Unmitigated	0.02	0.13		0.00		0.00	0.01		0.00	0.01						154.61
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Land Use	kBTU	tons/yr										MT/yr						
Apartments Mid Rise	2.87974e+006	0.02	0.13		0.00		0.00	0.01		0.00	0.01							154.61
Total		0.02	0.13		0.00		0.00	0.01		0.00	0.01							154.61

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Land Use	kBTU	tons/yr										MT/yr						
Apartments Mid Rise	2.38854e+006	0.01	0.11		0.00		0.00	0.01		0.00	0.01							128.24
Total		0.01	0.11		0.00		0.00	0.01		0.00	0.01							128.24

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	kWh	tons/yr				MT/yr			
Apartments Mid Rise	787450								230.51
Total									230.51

Mitigated

	Electricity Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	kWh	tons/yr				MT/yr			
Apartments Mid Rise	732821								214.52
Total									214.52

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	14.47	0.20		0.01		0.00	2.36		0.00	2.36						515.05
Unmitigated	14.47	0.20		0.01		0.00	2.36		0.00	2.36						515.05
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.26					0.00	0.00		0.00	0.00						0.00
Consumer Products	0.64					0.00	0.00		0.00	0.00						0.00
Hearth	13.51	0.18		0.01		0.00	2.35		0.00	2.35						512.36
Landscaping	0.05	0.02		0.00		0.00	0.01		0.00	0.01						2.70
Total	14.46	0.20		0.01		0.00	2.36		0.00	2.36						515.06

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.26					0.00	0.00		0.00	0.00						0.00
Consumer Products	0.64					0.00	0.00		0.00	0.00						0.00
Hearth	13.51	0.18		0.01		0.00	2.35		0.00	2.35						512.36
Landscaping	0.05	0.02		0.00		0.00	0.01		0.00	0.01						2.70
Total	14.46	0.20		0.01		0.00	2.36		0.00	2.36						515.06

7.0 Water Detail

7.1 Mitigation Measures Water

	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr				MT/yr			
Mitigated								43.66
Unmitigated								43.66
Total	NA	NA	NA	NA	NA	NA	NA	NA

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	tons/yr				MT/yr			
Apartments Mid Rise	14.0081 / 8.8312								43.66
Total									43.66

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	tons/yr				MT/yr			
Apartments Mid Rise	14.0081 / 8.8312								43.66
Total									43.66

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
	tons/yr				MT/yr			
Mitigated								40.49
Unmitigated								44.99
Total	NA	NA	NA	NA	NA	NA	NA	NA

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	tons	tons/yr				MT/yr			
Apartments Mid Rise	98.9								44.99
Total									44.99

Mitigated

	Waste Disposed	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	tons	tons/yr				MT/yr			
Apartments Mid Rise	89.01								40.49
Total									40.49

9.0 Vegetation

Castilian Hall Redevelopment Yolo County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric
Apartments Mid Rise	215	Dwelling Unit

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Utility Company	Pacific Gas & Electric Company
Climate Zone	2	Precipitation Freq (Days)	54		

1.3 User Entered Comments

Project Characteristics -

Land Use - Project population not to exceed 275. Square footage set to 600 sf per students. Unit amount set to 2/3 single bedroom and 1/3 two bedroom with one person per bedroom.

Construction Phase - Site Demolition set to 35 days to account for demolition of the existing buildings and site infrastructure.

Demolition -

Vehicle Trips - Trip rates set to zero based on project not creating a net new increase in traffic trips.

Construction Off-road Equipment Mitigation -

Energy Mitigation -

Waste Mitigation -

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2011	21.82	178.82		0.16	32.88	9.03	41.91	9.99	9.03	19.02						17,063.78
2012	287.29	42.50		0.07	2.23	2.72	4.96	0.09	2.72	2.81						6,319.17
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2011	21.82	178.82		0.16	32.88	9.03	41.91	9.99	9.03	19.02						17,063.78
2012	287.29	42.50		0.07	2.23	2.72	4.96	0.09	2.72	2.81						6,319.17
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	118.94	2.23		0.16		0.00	24.46		0.00	24.46						5,480.16
Energy	0.09	0.73		0.00		0.00	0.06		0.00	0.06						933.85
Mobile	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
Total	119.03	2.96		0.16	0.00	0.00	24.52	0.00	0.00	24.52						6,414.01

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	118.94	2.23		0.16		0.00	24.46		0.00	24.46						5,480.16
Energy	0.07	0.60		0.00		0.00	0.05		0.00	0.05						774.56
Mobile	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
Total	119.01	2.83		0.16	0.00	0.00	24.51	0.00	0.00	24.51						6,254.72

3.0 Construction Detail

3.1 Mitigation Measures Construction

Clean Paved Roads

3.2 Demolition - 2011

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.01	0.00	3.01	0.00	0.00	0.00						0.00
Off-Road	9.84	79.87		0.07		4.10	4.10		4.10	4.10						7,529.33
Total	9.84	79.87		0.07	3.01	4.10	7.11	0.00	4.10	4.10						7,529.33

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.73	8.94		0.01	11.37	0.31	11.68	0.04	0.31	0.35						1,161.27
Vendor	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
Worker	0.12	0.12		0.00	0.20	0.01	0.20	0.01	0.01	0.01						161.25
Total	0.85	9.06		0.01	11.57	0.32	11.88	0.05	0.32	0.36						1,322.52

3.2 Demolition - 2011

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.01	0.00	3.01	0.00	0.00	0.00						0.00
Off-Road	9.84	79.87		0.07		4.10	4.10		4.10	4.10						7,529.33
Total	9.84	79.87		0.07	3.01	4.10	7.11	0.00	4.10	4.10						7,529.33

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.73	8.94		0.01	11.37	0.31	11.68	0.04	0.31	0.35						1,161.27
Vendor	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
Worker	0.12	0.12		0.00	0.20	0.01	0.20	0.01	0.01	0.01						161.25
Total	0.85	9.06		0.01	11.57	0.32	11.88	0.05	0.32	0.36						1,322.52

3.3 Site Preparation - 2011

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					18.07	0.00	18.07	9.93	0.00	9.93							0.00
Off-Road	10.99	89.73		0.07		4.61	4.61		4.61	4.61							8,018.42
Total	10.99	89.73		0.07	18.07	4.61	22.68	9.93	4.61	14.54							8,018.42

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
Vendor	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
Worker	0.14	0.15		0.00	0.23	0.01	0.24	0.01	0.01	0.02							193.50
Total	0.14	0.15		0.00	0.23	0.01	0.24	0.01	0.01	0.02							193.50

3.3 Site Preparation - 2011

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					18.07	0.00	18.07	9.93	0.00	9.93							0.00
Off-Road	10.99	89.73		0.07		4.61	4.61		4.61	4.61							8,018.42
Total	10.99	89.73		0.07	18.07	4.61	22.68	9.93	4.61	14.54							8,018.42

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
Vendor	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
Worker	0.14	0.15		0.00	0.23	0.01	0.24	0.01	0.01	0.02							193.50
Total	0.14	0.15		0.00	0.23	0.01	0.24	0.01	0.01	0.02							193.50

3.4 Grading - 2011

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					6.55	0.00	6.55	3.31	0.00	3.31							0.00
Off-Road	7.18	55.38		0.05		3.27	3.27		3.27	3.27							5,253.60
Total	7.18	55.38		0.05	6.55	3.27	9.82	3.31	3.27	6.58							5,253.60

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
Vendor	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
Worker	0.12	0.12		0.00	0.20	0.01	0.20	0.01	0.01	0.01							161.25
Total	0.12	0.12		0.00	0.20	0.01	0.20	0.01	0.01	0.01							161.25

3.4 Grading - 2011

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					6.55	0.00	6.55	3.31	0.00	3.31							0.00
Off-Road	7.18	55.38		0.05		3.27	3.27		3.27	3.27							5,253.60
Total	7.18	55.38		0.05	6.55	3.27	9.82	3.31	3.27	6.58							5,253.60

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
Vendor	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
Worker	0.12	0.12		0.00	0.20	0.01	0.20	0.01	0.01	0.01							161.25
Total	0.12	0.12		0.00	0.20	0.01	0.20	0.01	0.01	0.01							161.25

3.5 Building Construction - 2011

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	6.11	40.22		0.04		2.80	2.80		2.80	2.80							4,052.11
Total	6.11	40.22		0.04		2.80	2.80		2.80	2.80							4,052.11

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
Vendor	0.35	4.34		0.01	0.21	0.14	0.35	0.02	0.14	0.15							639.40
Worker	1.24	1.26		0.02	2.02	0.06	2.08	0.08	0.06	0.13							1,666.26
Total	1.59	5.60		0.03	2.23	0.20	2.43	0.10	0.20	0.28							2,305.66

3.5 Building Construction - 2011

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	6.11	40.22		0.04		2.80	2.80		2.80	2.80							4,052.11
Total	6.11	40.22		0.04		2.80	2.80		2.80	2.80							4,052.11

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
Vendor	0.35	4.34		0.01	0.21	0.14	0.35	0.02	0.14	0.15							639.40
Worker	1.24	1.26		0.02	2.02	0.06	2.08	0.08	0.06	0.13							1,666.26
Total	1.59	5.60		0.03	2.23	0.20	2.43	0.10	0.20	0.28							2,305.66

3.5 Building Construction - 2012

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	5.63	37.37		0.04		2.54	2.54		2.54	2.54							4,051.23
Total	5.63	37.37		0.04		2.54	2.54		2.54	2.54							4,051.23

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
Vendor	0.32	4.00		0.01	0.21	0.12	0.34	0.02	0.12	0.14							639.27
Worker	1.13	1.14		0.02	2.02	0.06	2.08	0.08	0.06	0.13							1,628.67
Total	1.45	5.14		0.03	2.23	0.18	2.42	0.10	0.18	0.27							2,267.94

3.5 Building Construction - 2012

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	5.63	37.37		0.04		2.54	2.54		2.54	2.54							4,051.23
Total	5.63	37.37		0.04		2.54	2.54		2.54	2.54							4,051.23

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
Vendor	0.32	4.00		0.01	0.21	0.12	0.34	0.02	0.12	0.14							639.27
Worker	1.13	1.14		0.02	2.02	0.06	2.08	0.08	0.06	0.13							1,628.67
Total	1.45	5.14		0.03	2.23	0.18	2.42	0.10	0.18	0.27							2,267.94

3.6 Paving - 2012

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	4.51	27.70		0.03		2.41	2.41		2.41	2.41							2,409.23
Paving	0.00					0.00	0.00		0.00	0.00							0.00
Total	4.51	27.70		0.03		2.41	2.41		2.41	2.41							2,409.23

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
Vendor	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
Worker	0.15	0.15		0.00	0.26	0.01	0.27	0.01	0.01	0.02							210.15
Total	0.15	0.15		0.00	0.26	0.01	0.27	0.01	0.01	0.02							210.15

3.6 Paving - 2012

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	4.51	27.70		0.03		2.41	2.41		2.41	2.41							2,409.23
Paving	0.00					0.00	0.00		0.00	0.00							0.00
Total	4.51	27.70		0.03		2.41	2.41		2.41	2.41							2,409.23

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
Vendor	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
Worker	0.15	0.15		0.00	0.26	0.01	0.27	0.01	0.01	0.02							210.15
Total	0.15	0.15		0.00	0.26	0.01	0.27	0.01	0.01	0.02							210.15

3.7 Architectural Coating - 2012

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	286.54					0.00	0.00		0.00	0.00						0.00
Off-Road	0.52	3.16		0.00		0.29	0.29		0.29	0.29						282.18
Total	287.06	3.16		0.00		0.29	0.29		0.29	0.29						282.18

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
Vendor	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
Worker	0.23	0.23		0.00	0.40	0.01	0.42	0.02	0.01	0.03						325.73
Total	0.23	0.23		0.00	0.40	0.01	0.42	0.02	0.01	0.03						325.73

3.7 Architectural Coating - 2012

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	286.54					0.00	0.00		0.00	0.00						0.00
Off-Road	0.52	3.16		0.00		0.29	0.29		0.29	0.29						282.18
Total	287.06	3.16		0.00		0.29	0.29		0.29	0.29						282.18

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
Vendor	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
Worker	0.23	0.23		0.00	0.40	0.01	0.42	0.02	0.01	0.03						325.73
Total	0.23	0.23		0.00	0.40	0.01	0.42	0.02	0.01	0.03						325.73

4.0 Mobile Detail

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Mitigated	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
Unmitigated	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW
Apartments Mid Rise	10.80	7.30	7.50	42.60	21.00	36.40

5.0 Energy Detail

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
NaturalGas Mitigated	0.07	0.60		0.00		0.00	0.05		0.00	0.05							774.56
NaturalGas Unmitigated	0.09	0.73		0.00		0.00	0.06		0.00	0.06							933.85
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU	lb/day										lb/day					
Apartments Mid Rise	7889.69	0.09	0.73		0.00		0.00	0.06		0.00	0.06						933.85
Total		0.09	0.73		0.00		0.00	0.06		0.00	0.06						933.85

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Land Use	kBTU	lb/day										lb/day						
Apartments Mid Rise	6.54395	0.07	0.60		0.00		0.00	0.05		0.00	0.05							774.56
Total		0.07	0.60		0.00		0.00	0.05		0.00	0.05							774.56

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Mitigated	118.94	2.23		0.16		0.00	24.46		0.00	24.46							5,480.16
Unmitigated	118.94	2.23		0.16		0.00	24.46		0.00	24.46							5,480.16
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.41					0.00	0.00		0.00	0.00						0.00
Consumer Products	3.53					0.00	0.00		0.00	0.00						0.00
Hearth	113.39	2.02		0.16		0.00	24.37		0.00	24.36						5,447.11
Landscaping	0.60	0.22		0.00		0.00	0.10		0.00	0.10						33.05
Total	118.93	2.24		0.16		0.00	24.47		0.00	24.46						5,480.16

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.41					0.00	0.00		0.00	0.00						0.00
Consumer Products	3.53					0.00	0.00		0.00	0.00						0.00
Hearth	113.39	2.02		0.16		0.00	24.37		0.00	24.36						5,447.11
Landscaping	0.60	0.22		0.00		0.00	0.10		0.00	0.10						33.05
Total	118.93	2.24		0.16		0.00	24.47		0.00	24.46						5,480.16

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Vegetation

Castilian Hall Redevelopment Yolo County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric
Apartments Mid Rise	215	Dwelling Unit

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Utility Company	Pacific Gas & Electric Company
Climate Zone	2	Precipitation Freq (Days)	54		

1.3 User Entered Comments

Project Characteristics -

Land Use - Project population not to exceed 275. Square footage set to 600 sf per students. Unit amount set to 2/3 single bedroom and 1/3 two bedroom with one person per bedroom.

Construction Phase - Site Demolition set to 35 days to account for demolition of the existing buildings and site infrastructure.

Demolition -

Vehicle Trips - Trip rates set to zero based on project not creating a net new increase in traffic trips.

Construction Off-road Equipment Mitigation -

Energy Mitigation -

Waste Mitigation -

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2011	21.86	179.13		0.16	32.88	9.04	41.91	9.99	9.04	19.02						17,010.44
2012	287.29	42.74		0.06	2.23	2.73	4.96	0.09	2.73	2.82						6,098.83
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2011	21.86	179.13		0.16	32.88	9.04	41.91	9.99	9.04	19.02						17,010.44
2012	287.29	42.74		0.06	2.23	2.73	4.96	0.09	2.73	2.82						6,098.83
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Area	118.94	2.23		0.16		0.00	24.46		0.00	24.46							5,480.16
Energy	0.09	0.73		0.00		0.00	0.06		0.00	0.06							933.85
Mobile	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
Total	119.03	2.96		0.16	0.00	0.00	24.52	0.00	0.00	24.52							6,414.01

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Area	118.94	2.23		0.16		0.00	24.46		0.00	24.46							5,480.16
Energy	0.07	0.60		0.00		0.00	0.05		0.00	0.05							774.56
Mobile	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
Total	119.01	2.83		0.16	0.00	0.00	24.51	0.00	0.00	24.51							6,254.72

3.0 Construction Detail

3.1 Mitigation Measures Construction

Clean Paved Roads

3.2 Demolition - 2011

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.01	0.00	3.01	0.00	0.00	0.00						0.00
Off-Road	9.84	79.87		0.07		4.10	4.10		4.10	4.10						7,529.33
Total	9.84	79.87		0.07	3.01	4.10	7.11	0.00	4.10	4.10						7,529.33

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.77	9.22		0.01	11.37	0.32	11.69	0.04	0.32	0.36						1,154.51
Vendor	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
Worker	0.12	0.14		0.00	0.20	0.01	0.20	0.01	0.01	0.01						140.08
Total	0.89	9.36		0.01	11.57	0.33	11.89	0.05	0.33	0.37						1,294.59

3.2 Demolition - 2011

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.01	0.00	3.01	0.00	0.00	0.00						0.00
Off-Road	9.84	79.87		0.07		4.10	4.10		4.10	4.10						7,529.33
Total	9.84	79.87		0.07	3.01	4.10	7.11	0.00	4.10	4.10						7,529.33

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.77	9.22		0.01	11.37	0.32	11.69	0.04	0.32	0.36						1,154.51
Vendor	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
Worker	0.12	0.14		0.00	0.20	0.01	0.20	0.01	0.01	0.01						140.08
Total	0.89	9.36		0.01	11.57	0.33	11.89	0.05	0.33	0.37						1,294.59

3.3 Site Preparation - 2011

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					18.07	0.00	18.07	9.93	0.00	9.93							0.00
Off-Road	10.99	89.73		0.07		4.61	4.61		4.61	4.61							8,018.42
Total	10.99	89.73		0.07	18.07	4.61	22.68	9.93	4.61	14.54							8,018.42

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
Vendor	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
Worker	0.14	0.17		0.00	0.23	0.01	0.24	0.01	0.01	0.02							168.10
Total	0.14	0.17		0.00	0.23	0.01	0.24	0.01	0.01	0.02							168.10

3.3 Site Preparation - 2011

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					18.07	0.00	18.07	9.93	0.00	9.93							0.00
Off-Road	10.99	89.73		0.07		4.61	4.61		4.61	4.61							8,018.42
Total	10.99	89.73		0.07	18.07	4.61	22.68	9.93	4.61	14.54							8,018.42

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
Vendor	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
Worker	0.14	0.17		0.00	0.23	0.01	0.24	0.01	0.01	0.02							168.10
Total	0.14	0.17		0.00	0.23	0.01	0.24	0.01	0.01	0.02							168.10

3.4 Grading - 2011

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					6.55	0.00	6.55	3.31	0.00	3.31							0.00
Off-Road	7.18	55.38		0.05		3.27	3.27		3.27	3.27							5,253.60
Total	7.18	55.38		0.05	6.55	3.27	9.82	3.31	3.27	6.58							5,253.60

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
Vendor	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
Worker	0.12	0.14		0.00	0.20	0.01	0.20	0.01	0.01	0.01							140.08
Total	0.12	0.14		0.00	0.20	0.01	0.20	0.01	0.01	0.01							140.08

3.4 Grading - 2011

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.55	0.00	6.55	3.31	0.00	3.31						0.00
Off-Road	7.18	55.38		0.05		3.27	3.27		3.27	3.27						5,253.60
Total	7.18	55.38		0.05	6.55	3.27	9.82	3.31	3.27	6.58						5,253.60

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
Vendor	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
Worker	0.12	0.14		0.00	0.20	0.01	0.20	0.01	0.01	0.01						140.08
Total	0.12	0.14		0.00	0.20	0.01	0.20	0.01	0.01	0.01						140.08

3.5 Building Construction - 2011

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	6.11	40.22		0.04		2.80	2.80		2.80	2.80							4,052.11
Total	6.11	40.22		0.04		2.80	2.80		2.80	2.80							4,052.11

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
Vendor	0.39	4.44		0.01	0.21	0.14	0.35	0.02	0.14	0.16							633.82
Worker	1.23	1.43		0.01	2.02	0.06	2.08	0.08	0.06	0.13							1,447.53
Total	1.62	5.87		0.02	2.23	0.20	2.43	0.10	0.20	0.29							2,081.35

3.5 Building Construction - 2011

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	6.11	40.22		0.04		2.80	2.80		2.80	2.80							4,052.11
Total	6.11	40.22		0.04		2.80	2.80		2.80	2.80							4,052.11

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
Vendor	0.39	4.44		0.01	0.21	0.14	0.35	0.02	0.14	0.16							633.82
Worker	1.23	1.43		0.01	2.02	0.06	2.08	0.08	0.06	0.13							1,447.53
Total	1.62	5.87		0.02	2.23	0.20	2.43	0.10	0.20	0.29							2,081.35

3.5 Building Construction - 2012

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	5.63	37.37		0.04		2.54	2.54		2.54	2.54							4,051.23
Total	5.63	37.37		0.04		2.54	2.54		2.54	2.54							4,051.23

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
Vendor	0.36	4.08		0.01	0.21	0.13	0.34	0.02	0.13	0.14							633.60
Worker	1.13	1.29		0.01	2.02	0.06	2.08	0.08	0.06	0.13							1,414.00
Total	1.49	5.37		0.02	2.23	0.19	2.42	0.10	0.19	0.27							2,047.60

3.5 Building Construction - 2012

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	5.63	37.37		0.04		2.54	2.54		2.54	2.54							4,051.23
Total	5.63	37.37		0.04		2.54	2.54		2.54	2.54							4,051.23

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
Vendor	0.36	4.08		0.01	0.21	0.13	0.34	0.02	0.13	0.14							633.60
Worker	1.13	1.29		0.01	2.02	0.06	2.08	0.08	0.06	0.13							1,414.00
Total	1.49	5.37		0.02	2.23	0.19	2.42	0.10	0.19	0.27							2,047.60

3.6 Paving - 2012

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	4.51	27.70		0.03		2.41	2.41		2.41	2.41							2,409.23
Paving	0.00					0.00	0.00		0.00	0.00							0.00
Total	4.51	27.70		0.03		2.41	2.41		2.41	2.41							2,409.23

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
Vendor	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
Worker	0.15	0.17		0.00	0.26	0.01	0.27	0.01	0.01	0.02							182.45
Total	0.15	0.17		0.00	0.26	0.01	0.27	0.01	0.01	0.02							182.45

3.6 Paving - 2012

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	4.51	27.70		0.03		2.41	2.41		2.41	2.41							2,409.23
Paving	0.00					0.00	0.00		0.00	0.00							0.00
Total	4.51	27.70		0.03		2.41	2.41		2.41	2.41							2,409.23

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
Vendor	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
Worker	0.15	0.17		0.00	0.26	0.01	0.27	0.01	0.01	0.02							182.45
Total	0.15	0.17		0.00	0.26	0.01	0.27	0.01	0.01	0.02							182.45

3.7 Architectural Coating - 2012

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	286.54					0.00	0.00		0.00	0.00						0.00
Off-Road	0.52	3.16		0.00		0.29	0.29		0.29	0.29						282.18
Total	287.06	3.16		0.00		0.29	0.29		0.29	0.29						282.18

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
Vendor	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
Worker	0.23	0.26		0.00	0.40	0.01	0.42	0.02	0.01	0.03						282.80
Total	0.23	0.26		0.00	0.40	0.01	0.42	0.02	0.01	0.03						282.80

3.7 Architectural Coating - 2012

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	286.54					0.00	0.00		0.00	0.00						0.00
Off-Road	0.52	3.16		0.00		0.29	0.29		0.29	0.29						282.18
Total	287.06	3.16		0.00		0.29	0.29		0.29	0.29						282.18

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
Vendor	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
Worker	0.23	0.26		0.00	0.40	0.01	0.42	0.02	0.01	0.03						282.80
Total	0.23	0.26		0.00	0.40	0.01	0.42	0.02	0.01	0.03						282.80

4.0 Mobile Detail

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
Unmitigated	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW
Apartments Mid Rise	10.80	7.30	7.50	42.60	21.00	36.40

5.0 Energy Detail

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
NaturalGas Mitigated	0.07	0.60		0.00		0.00	0.05		0.00	0.05							774.56
NaturalGas Unmitigated	0.09	0.73		0.00		0.00	0.06		0.00	0.06							933.85
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU	lb/day										lb/day					
Apartments Mid Rise	7889.69	0.09	0.73		0.00		0.00	0.06		0.00	0.06						933.85
Total		0.09	0.73		0.00		0.00	0.06		0.00	0.06						933.85

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Land Use	kBTU	lb/day										lb/day						
Apartments Mid Rise	6.54395	0.07	0.60		0.00		0.00	0.05		0.00	0.05							774.56
Total		0.07	0.60		0.00		0.00	0.05		0.00	0.05							774.56

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Mitigated	118.94	2.23		0.16		0.00	24.46		0.00	24.46							5,480.16
Unmitigated	118.94	2.23		0.16		0.00	24.46		0.00	24.46							5,480.16
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.41					0.00	0.00		0.00	0.00						0.00
Consumer Products	3.53					0.00	0.00		0.00	0.00						0.00
Hearth	113.39	2.02		0.16		0.00	24.37		0.00	24.36						5,447.11
Landscaping	0.60	0.22		0.00		0.00	0.10		0.00	0.10						33.05
Total	118.93	2.24		0.16		0.00	24.47		0.00	24.46						5,480.16

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.41					0.00	0.00		0.00	0.00						0.00
Consumer Products	3.53					0.00	0.00		0.00	0.00						0.00
Hearth	113.39	2.02		0.16		0.00	24.37		0.00	24.36						5,447.11
Landscaping	0.60	0.22		0.00		0.00	0.10		0.00	0.10						33.05
Total	118.93	2.24		0.16		0.00	24.47		0.00	24.46						5,480.16

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Vegetation

Castilian Hall Redevelopment Yolo County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric
Apartments Mid Rise	215	Dwelling Unit

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Utility Company	Pacific Gas & Electric Company
Climate Zone	2	Precipitation Freq (Days)	54		

1.3 User Entered Comments

Project Characteristics -

Land Use - Project population not to exceed 275. Square footage set to 600 sf per students. Unit amount set to 2/3 single bedroom and 1/3 two bedroom with one person per bedroom.

Construction Phase - Site Demolition set to 35 days to account for demolition of the existing buildings and site infrastructure.

Demolition -

Vehicle Trips - Trip rates set to 2.76 trips per day per dwelling unit based on 215 units and (from traffic study) a total of 594 daily trips.

Construction Off-road Equipment Mitigation -

Energy Mitigation -

Waste Mitigation -

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2011	1.11	7.21		0.01	0.50	0.44	0.94	0.06	0.44	0.50						816.60
2012	2.64	0.35		0.00	0.01	0.03	0.04	0.00	0.03	0.03						34.32
Total	3.75	7.56		0.01	0.51	0.47	0.98	0.06	0.47	0.53						850.92

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2011	1.11	7.21		0.01	0.50	0.44	0.94	0.06	0.44	0.50						816.60
2012	2.64	0.35		0.00	0.01	0.03	0.04	0.00	0.03	0.03						34.32
Total	3.75	7.56		0.01	0.51	0.47	0.98	0.06	0.47	0.53						850.92

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Area	14.47	0.20		0.01		0.00	2.36		0.00	2.36							515.05
Energy	0.02	0.13		0.00		0.00	0.01		0.00	0.01							385.12
Mobile	0.63	1.96		0.01	0.85	0.07	0.92	0.04	0.07	0.10							871.81
Waste						0.00	0.00		0.00	0.00							44.99
Water						0.00	0.00		0.00	0.00							43.66
Total	15.12	2.29		0.02	0.85	0.07	3.29	0.04	0.07	2.47							1,860.63

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Area	14.47	0.20		0.01		0.00	2.36		0.00	2.36							515.05
Energy	0.01	0.11		0.00		0.00	0.01		0.00	0.01							342.76
Mobile	0.63	1.96		0.01	0.85	0.07	0.92	0.04	0.07	0.10							871.81
Waste						0.00	0.00		0.00	0.00							40.49
Water						0.00	0.00		0.00	0.00							43.66
Total	15.11	2.27		0.02	0.85	0.07	3.29	0.04	0.07	2.47							1,813.77

3.0 Construction Detail

3.1 Mitigation Measures Construction

Clean Paved Roads

3.2 Demolition - 2011

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.05	0.00	0.05	0.01	0.00	0.01						0.00
Off-Road	0.17	1.40		0.00		0.07	0.07		0.07	0.07						119.50
Total	0.17	1.40		0.00	0.05	0.07	0.12	0.01	0.07	0.08						119.50

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.01	0.16		0.00	0.16	0.01	0.17	0.00	0.01	0.01						18.38
Vendor	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
Worker	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00						2.32
Total	0.01	0.16		0.00	0.16	0.01	0.17	0.00	0.01	0.01						20.70

3.2 Demolition - 2011

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Fugitive Dust					0.05	0.00	0.05	0.01	0.00	0.01							0.00
Off-Road	0.17	1.40		0.00		0.07	0.07		0.07	0.07							119.50
Total	0.17	1.40		0.00	0.05	0.07	0.12	0.01	0.07	0.08							119.50

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Hauling	0.01	0.16		0.00	0.16	0.01	0.17	0.00	0.01	0.01							18.38
Vendor	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
Worker	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00							2.32
Total	0.01	0.16		0.00	0.16	0.01	0.17	0.00	0.01	0.01							20.70

3.3 Site Preparation - 2011

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.05	0.00	0.05	0.02	0.00	0.02						0.00
Off-Road	0.03	0.22		0.00		0.01	0.01		0.01	0.01						18.18
Total	0.03	0.22		0.00	0.05	0.01	0.06	0.02	0.01	0.03						18.18

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
Vendor	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
Worker	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.40
Total	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.40

3.3 Site Preparation - 2011

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Fugitive Dust					0.05	0.00	0.05	0.02	0.00	0.02							0.00
Off-Road	0.03	0.22		0.00		0.01	0.01		0.01	0.01							18.18
Total	0.03	0.22		0.00	0.05	0.01	0.06	0.02	0.01	0.03							18.18

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Hauling	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
Vendor	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
Worker	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.40
Total	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.40

3.4 Grading - 2011

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Fugitive Dust					0.03	0.00	0.03	0.01	0.00	0.01							0.00
Off-Road	0.03	0.22		0.00		0.01	0.01		0.01	0.01							19.06
Total	0.03	0.22		0.00	0.03	0.01	0.04	0.01	0.01	0.02							19.06

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Hauling	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
Vendor	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
Worker	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.53
Total	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.53

3.4 Grading - 2011

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Fugitive Dust					0.03	0.00	0.03	0.01	0.00	0.01							0.00
Off-Road	0.03	0.22		0.00		0.01	0.01		0.01	0.01							19.06
Total	0.03	0.22		0.00	0.03	0.01	0.04	0.01	0.01	0.02							19.06

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Hauling	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
Vendor	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
Worker	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.53
Total	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.53

3.5 Building Construction - 2011

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Off-Road	0.69	4.56		0.00		0.32	0.32		0.32	0.32							417.11
Total	0.69	4.56		0.00		0.32	0.32		0.32	0.32							417.11

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Hauling	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
Vendor	0.04	0.50		0.00	0.02	0.02	0.04	0.00	0.02	0.02							65.55
Worker	0.13	0.15		0.00	0.19	0.01	0.20	0.01	0.01	0.02							155.57
Total	0.17	0.65		0.00	0.21	0.03	0.24	0.01	0.03	0.04							221.12

3.5 Building Construction - 2011

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Off-Road	0.69	4.56		0.00		0.32	0.32		0.32	0.32							417.11
Total	0.69	4.56		0.00		0.32	0.32		0.32	0.32							417.11

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Hauling	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
Vendor	0.04	0.50		0.00	0.02	0.02	0.04	0.00	0.02	0.02							65.55
Worker	0.13	0.15		0.00	0.19	0.01	0.20	0.01	0.01	0.02							155.57
Total	0.17	0.65		0.00	0.21	0.03	0.24	0.01	0.03	0.04							221.12

3.5 Building Construction - 2012

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Off-Road	0.01	0.06		0.00		0.00	0.00		0.00	0.00							5.51
Total	0.01	0.06		0.00		0.00	0.00		0.00	0.00							5.51

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Hauling	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
Vendor	0.00	0.01		0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.87
Worker	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00							2.01
Total	0.00	0.01		0.00	0.00	0.00	0.00	0.00	0.00	0.00							2.88

3.5 Building Construction - 2012

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.01	0.06		0.00		0.00	0.00		0.00	0.00						5.51
Total	0.01	0.06		0.00		0.00	0.00		0.00	0.00						5.51

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
Vendor	0.00	0.01		0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.87
Worker	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00						2.01
Total	0.00	0.01		0.00	0.00	0.00	0.00	0.00	0.00	0.00						2.88

3.6 Paving - 2012

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.04	0.25		0.00		0.02	0.02		0.02	0.02						19.67
Paving	0.00					0.00	0.00		0.00	0.00						0.00
Total	0.04	0.25		0.00		0.02	0.02		0.02	0.02						19.67

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
Vendor	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
Worker	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00						1.56
Total	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00						1.56

3.6 Paving - 2012

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Off-Road	0.04	0.25		0.00		0.02	0.02		0.02	0.02							19.67
Paving	0.00					0.00	0.00		0.00	0.00							0.00
Total	0.04	0.25		0.00		0.02	0.02		0.02	0.02							19.67

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Hauling	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
Vendor	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00
Worker	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00							1.56
Total	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00							1.56

3.7 Architectural Coating - 2012

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.58					0.00	0.00		0.00	0.00						0.00
Off-Road	0.00	0.03		0.00		0.00	0.00		0.00	0.00						2.30
Total	2.58	0.03		0.00		0.00	0.00		0.00	0.00						2.30

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
Vendor	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
Worker	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00						2.41
Total	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00						2.41

3.7 Architectural Coating - 2012

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.58					0.00	0.00		0.00	0.00						0.00
Off-Road	0.00	0.03		0.00		0.00	0.00		0.00	0.00						2.30
Total	2.58	0.03		0.00		0.00	0.00		0.00	0.00						2.30

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
Vendor	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
Worker	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00						2.41
Total	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00						2.41

4.0 Mobile Detail

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Mitigated	0.63	1.96		0.01	0.85	0.07	0.92	0.04	0.07	0.10							871.81
Unmitigated	0.63	1.96		0.01	0.85	0.07	0.92	0.04	0.07	0.10							871.81
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	593.40	593.40	593.40	1,699,820	1,699,820
Total	593.40	593.40	593.40	1,699,820	1,699,820

4.3 Trip Type Information

Land Use	Miles			Trip %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW
Apartments Mid Rise	10.80	7.30	7.50	42.60	21.00	36.40

5.0 Energy Detail

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.00	0.00		0.00	0.00						214.52
Electricity Unmitigated						0.00	0.00		0.00	0.00						230.51
NaturalGas Mitigated	0.01	0.11		0.00		0.00	0.01		0.00	0.01						128.24
NaturalGas Unmitigated	0.02	0.13		0.00		0.00	0.01		0.00	0.01						154.61
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Land Use	kBTU	tons/yr										MT/yr						
Apartments Mid Rise	2.87974e+006	0.02	0.13		0.00		0.00	0.01		0.00	0.01							154.61
Total		0.02	0.13		0.00		0.00	0.01		0.00	0.01							154.61

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Land Use	kBTU	tons/yr										MT/yr						
Apartments Mid Rise	2.38854e+006	0.01	0.11		0.00		0.00	0.01		0.00	0.01							128.24
Total		0.01	0.11		0.00		0.00	0.01		0.00	0.01							128.24

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	kWh	tons/yr				MT/yr			
Apartments Mid Rise	787450	:	:	:	:	:	:	:	230.51
Total									230.51

Mitigated

	Electricity Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	kWh	tons/yr				MT/yr			
Apartments Mid Rise	732821	:	:	:	:	:	:	:	214.52
Total									214.52

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	14.47	0.20		0.01		0.00	2.36		0.00	2.36						515.05
Unmitigated	14.47	0.20		0.01		0.00	2.36		0.00	2.36						515.05
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.26					0.00	0.00		0.00	0.00						0.00
Consumer Products	0.64					0.00	0.00		0.00	0.00						0.00
Hearth	13.51	0.18		0.01		0.00	2.35		0.00	2.35						512.36
Landscaping	0.05	0.02		0.00		0.00	0.01		0.00	0.01						2.70
Total	14.46	0.20		0.01		0.00	2.36		0.00	2.36						515.06

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
SubCategory	tons/yr										MT/yr						
Architectural Coating	0.26					0.00	0.00		0.00	0.00							0.00
Consumer Products	0.64					0.00	0.00		0.00	0.00							0.00
Hearth	13.51	0.18		0.01		0.00	2.35		0.00	2.35							512.36
Landscaping	0.05	0.02		0.00		0.00	0.01		0.00	0.01							2.70
Total	14.46	0.20		0.01		0.00	2.36		0.00	2.36							515.06

7.0 Water Detail

7.1 Mitigation Measures Water

	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr				MT/yr			
Mitigated								43.66
Unmitigated								43.66
Total	NA	NA	NA	NA	NA	NA	NA	NA

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	tons/yr				MT/yr			
Apartments Mid Rise	14.0081 / 8.8312								43.66
Total									43.66

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	tons/yr				MT/yr			
Apartments Mid Rise	14.0081 / 8.8312								43.66
Total									43.66

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
	tons/yr				MT/yr			
Mitigated								40.49
Unmitigated								44.99
Total	NA	NA	NA	NA	NA	NA	NA	NA

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	tons	tons/yr				MT/yr			
Apartments Mid Rise	98.9								44.99
Total									44.99

Mitigated

	Waste Disposed	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	tons	tons/yr				MT/yr			
Apartments Mid Rise	89.01								40.49
Total									40.49

9.0 Vegetation
