

**APPENDIX C:
AIR QUALITY AND GREENHOUSE GAS DATA**

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The Landing - Walnut Creek

Location: 207-235 Ygnacio Valley Road, Walnut Creek, Contra Costa County, CA 94596
 Air Basin: San Francisco Bay Area Air Basin (SFBAAB)
 Air District: Bay Area Air Quality Management District
 Climate Zone: 4
 Scenario Year: 2017
 Utility Company: Pacific Gas & Electric

Existing

	SQFT	Acres	Service Population
Lot size	77,618	1.782	43
	Units	Lots	
Residences Total	20	9	
Single Family Residences	4	4	
Apartment Complex	10	1	
Duplexes	6	3	
Vacant		1	
	SQFT	Acres	
Approximate Lot Areas	8,624	0.20	
Single Family		0.79	
Low Rise Apartments		0.99	

Fireplaces: Assumes existing units have no fireplaces.

Energy Use: Existing Modeled using "Historic" (2005 Building and Energy Efficiency) Standards. However, the majority of buildings pre-date the 2005 Standards. Consequently, modeling of the net increase in air quality and GHG emissions is conservative.

Water/Wastewater: CalEEMod Defaults and assume 100% anaerobic treatment and digestion of wastewater.

Waste: CalEEMod Defaults

Trip Generation and VMT

Trips	Trip Rate
213	10.65
Daily VMT	Avg Trip Length
640	3.00

Trip generation rates and vehicle miles traveled (VMT) provided by Fehr and Peers and include a 15% reduction for transit, walking, and biking. CalEEMod defaults adjusted to reflect data provided by Fehr & Peers, and assume 100% of trips are primary trips to avoid double-counting of reductions.

The Landing - Walnut Creek

Location: 207-235 Ygnacio Valley Road, Walnut Creek, Contra Costa County, CA 94596
 Air Basin: San Francisco Bay Area Air Basin (SFBAAB)
 Air District: Bay Area Air Quality Management District
 Climate Zone: 4
 Scenario Year: 2017

Project	Buildout 2017	Service Population
	Apartment Units: 178	381
	Lot Coverage: 62%	Residences and Amenities

Building Square Footages:	SQFT	Acres
1) Residential	155,804	1.07
2) Common Area - Corridors	34,133	0.68
3) Amenities (office, lounge, fitness)	5,870	0.04
<i>subtotal</i>	<i>195,807</i>	<i>1.78</i>
4) Garage	102,474	0.00
TOTAL BUILDING SQUARE FOOTAGE	298,281	1.78

Common Area Breakdown	SQFT	Modeled as non-asphalt surfaces
Total Landscaped Area:	17,500	
Total non-parking lot to be paved:	16,633	
	34,133	

Non-Residential Architectural Coating*

Nonresidential Structures	Landuse (SF)	Adj Factor	Total Paintable Surface Area	Paintable Interior Area	Paintable Exterior Area
Parking - enclosed parking w/ elevator	102,474	2	204,948	4,611	1,537

*The subterranean parking structure would not be painted. Architectural coatings for the parking garage are based on CalEEMod methodology applied to a surface parking lot (i.e., striping), which calculates the paintable interior and exterior areas by multiplying the total paintable surface area by 75 and 25 percent, respectively.

Fireplaces: Assumes proposed units will not have fireplaces.

Energy: The new residential building is a minimum of 25 more efficient than the 2008 Standards under 2013 Building and Energy Efficiency Standards (effective January 1, 2014). Future cycle updates anticipated to be more efficient. For the purpose of modeling, buildings are assumed to be 25% more energy efficient than the 2008 standards in the CalEEMod program.

Water/Wastewater: CalEEMod Defaults and assume 100% anaerobic treatment and digestion of wastewater. Assumes implementation of the City's Landscape Water Efficiency Ordinance and CALGreen improvements in plumbing and landscaping water efficiency.

Waste: CalEEMod Defaults

Trip Generation and VMT

Trips	Trip Rate
1,020	5.73
Daily VMT	Avg Trip Length
3,060	3.00

Trip generation rates and vehicle miles traveled (VMT) provided by Fehr and Peers and include a 15% reduction for transit, walking, and biking. CalEEMod defaults adjusted to reflect data provided by Fehr & Peers, and assume 100% of trips are primary trips to avoid double-counting of reductions.

Changes to the CalEEMod Defaults - Fleet Mix (2017 Fleet Mix)

Countywide fleet mix not applicable at a project level:

Default	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH	
FleetMix	0.527495	0.065038	0.176571	0.14533	0.036305	0.00485	0.009787	0.021393	0.001225	0.001483	0.006378	0.002095	0.002051	100.0%
Trips	538	66	180	148	37	5	10	22	1	2	7	2	2	1020
Percent	78%			15%				8%						100.0%
Proportion	0.680216	0.083868	0.227692	1.000000	0.458460	0.061246	0.123590	0.270151	0.015469	0.018727	0.008225	0.026456	0.025900	
Assumed Mix	97%			2%				1%						100.00%
adjusted with														
Assumed	0.659809	0.081352	0.220861	0.020000	0.004585	0.000612	0.001236	0.002702	0.000155	0.000187	0.007978	0.000265	0.000259	100.0%
Trips	673	83	225	20	5	1	1	3	0	0	8	0	0	1020
Calibrated so no motorhomes, no HHDT or MHDT	0.659809	0.081352	0.220861	0.020000	0	0	0	0	0	0	0.007978	0	0	99.0%
Modified	0.666474	0.082174	0.223092	0.020202	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.008058	0.000000	0.000000	100.0%
Trips	680	84	228	21	0	0	0	0	0	0	8	0	0	1020

Trips 1,020

Assumes no light-heavy duty, medium-heavy duty or heavy-heavy duty trucks, motor homes, or school buses.

GHG Summary (Annual)

Construction

Year	Bio- CO2 MT/yr	NBio- CO2	Total CO2	CH4	N2O	CO2e	
2015	0	873	873		0	0	875
2016	0	684	684		0	0	686
Total	0	1,557	1,557		0	0	1,561
30-yr amortization							52

Net Project

Category	Bio- CO2 MT/yr	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Area	0	2	2		0	0	2
Energy	0	370	370		0	0	371
Mobile	0	286	286		0	0	286
Waste	14	0	14		1	0	32
Water	3	19	21		0	0	24
Total	17	676	693		1	0	714
without Waste		3	676		0	0	683

Existing

Category	Bio- CO2 MT/yr	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Area	0	0	0		0	0	0
Energy	0	44	44		0	0	44
Mobile	0	75	75		0	0	75
Waste	3	0	3		0	0	6
Water	0	3	4		0	0	4
Total	3	122	125		0	0	129
without Waste		0	122		0	0	124

Project

Category	Bio- CO2 MT/yr	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Area	0	2	2		0	0	2
Energy	0	413	413		0	0	415
Mobile	0	361	361		0	0	361
Waste	17	0	17		1	0	37
Water	3	22	25		0	0	27
Total	20	798	818		1	0	843
without Waste		3	798		0	0	806

Criteria Air Pollutant Emissions Summary - Operation

Net Change in Operation

Category	tons/yr	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Area		1.25	0.01	1.18	0.00	0.00	0.01	0.01	0.00	0.01	0.01
Energy		0.00	0.04	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile		0.34	0.20	2.33	0.00	0.32	0.00	0.33	0.09	0.00	0.09
Waste		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total		1.59	0.25	3.53	0.00	0.32	0.01	0.34	0.09	0.01	0.10
BAAQMD TPY Threshold		10	10	NA	NA	NA	15	NA	NA	10	NA
Exceeds		No	No	NA	NA	NA	No	NA	NA	No	NA
Average Daily Emissions		8.69	1.39	19.3	0.0	1.77	0.07	1.84	0.47	0.07	0.54
BAAQMD lbs/day Threshold		54	54	NA	NA	NA	82	NA	NA	54	NA
Exceeds		No	No	NA	NA	NA	No	NA	NA	No	NA

*New buildings would be constructed to the current Building & Energy Efficiency Standards

Existing Operation

Category	tons/yr	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Area		0.12	0.002	0.16	0.00		0.001	0.00		0.00	0.001
Energy		0.002	0.02	0.01	0.00		0.001	0.00		0.00	0.001
Mobile		0.09	0.05	0.62	0.00	0.09	0.00	0.09	0.02	0.00	0.02
Waste							0.00	0.00		0.00	0.00
Water							0.00	0.00		0.00	0.00
Total		0.21	0.07	0.78	0.00	0.09	0.00	0.09	0.02	0.00	0.03
Total (lbs/day)		1.13	0.38	4.27	0.01	0.47	0.02	0.48	0.12	0.02	0.14

Proposed Operation

Category	tons/yr	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Area		1.36	0.02	1.34	0.00		0.01	0.01		0.01	0.01
Energy		0.01	0.05	0.02	0.00		0.00	0.00		0.00	0.00
Mobile		0.42	0.26	2.95	0.00	0.41	0.00	0.41	0.11	0.00	0.11
Waste							0.00	0.00		0.00	0.00
Water							0.00	0.00		0.00	0.00
Total		1.79	0.32	4.31	0.01	0.41	0.02	0.42	0.11	0.01	0.12
Total (lbs/day)		9.83	1.78	23.60	0.03	2.24	0.08	2.32	0.60	0.08	0.68

Current Haul Volumes

	Demolition Project Description	Grading Export Project Description
<i>Asphalt</i>	Duration 1 month	Duration: 2 months
<i>AC/Concrete</i>	Tons removed: 1400	Clean Soil Export (CY): 40,725
<i>Buildings</i>	Tons removed: 2800	
<i>Trees/Clean Lumber</i>	Tons demolished: 560	
	Tons removed: 118	
	Total Tons: 4878	
One way haul distance:	47 miles	35 miles
Location of debris dumpsite:	<i>vacaville-recology hay road landfill</i>	<i>agricultural site</i>
Debris truck capacity:	16 tons/truck	16 CY/ truck
	Trucks trips 610	Truck trips 5091
	Demolition Haul Period (days) 22	Soil Haul Period (days) 43
No. one-way haul trips/day:	Trucks/day 14	Truck/day 60
Will building debris be recycled reprocessed?	yes	n/a
If yes, how much?	20%	
If yes, will recycling/reprocessing occur onsite?	yes	

Current Phasing Assumptions

Note: All work for this project assumed to be completed in single phase.

	March 2015 to December 2016 - 22 Months	
Demolition	March 2015 - 1 month	22
Mass Grading	April 2015 - 2 months	43
Trenching	June 2015 - 2 months	45
Building	June 2015 - 19 months	415
Paving	July 2016 - 1 month	21
Painting	July 2016 - 3 month	66
approximately	480 days	
City Work Hours:	7AM-4PM, 5 days/week, 1 hour lunch 8 hours/day	

CalEEMod Input Construction Schedule

PhaseType	PhaseStartDate	PhaseEndDate	NumDays
Demolition	2015/03/01	2015/03/31	22
Grading	2015/04/01	2015/05/31	43
Trenching	2015/06/01	2015/07/31	45
Building Construction	2015/06/01	2016/12/31	415
Paving	2016/07/01	2016/07/29	21
Architectural Coating	2016/07/01	2016/09/30	66

CalEEMod Equipment

* Construction equipment and duration provided by the applicant. CalEEMod defaults will be used where preliminary information is not available

Equipment	Phase 1				total days	total hours
	#	Trips	hp	hrs/day		
Demolition						
Concrete/Industrial Saw	1	n/a	81	8		
Rubber Tired Dozer	1	n/a	78	8		
Tractor/Loader/Backhoe	3	n/a	108	8		
Excavator	1	n/a	268	8		
Workers	10	20	n/a			
Vendors	1	2	n/a			CalEEMod Default
Mass Grading						
Excavator	1	n/a	321	8		
Grader	1	n/a	180	8		
Rubber Tired Dozer	1	n/a	305	8		
Water Trucks (modeled as Vendor)	1	4	n/a			
Workers	8	16	n/a			
Vendors	2	4	n/a			CalEEMod Default
Trenching						
Excavator	1	n/a	110	8		
Other General Equipment	1	n/a	87	8		
Tractor/Loader/Backhoe	1	n/a	160	8		
Workers	5	10	n/a			
Vendors	0	0	n/a			CalEEMod Default
Building						
Crane	1	n/a	226	3.37		8 months out of 19 total months
Forklifts	3	n/a	89	8		
Generator Set	1	n/a	84	8		
Tractor/Loader/Backhoe	4	n/a	89	8		
Workers	80	160	n/a			
Vendors	35	70	n/a			CalEEMod Default
Paving						
Cement and Mortar Mixers	1	n/a	9	8		30 days
Paver	1	n/a	125	0.2667		1 day
Paving Equipment	2	n/a	108	0.2667		1 day
Roller	1	n/a	80	0.2667		1 day
Workers	10	20	n/a			
Vendors	1	2	n/a			CalEEMod Default
Painting						
Workers	20	40	n/a			
Vendors	1	2	n/a			CalEEMod Default

Criteria Air Pollutant Emissions Summary - Construction (Annual - Tons/year)

	tons/yr	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5
						PM10	PM10	Total	PM2.5	PM2.5	Total
Total		2.56	10.29	9.58	0.02	0.55	0.52	1.08	0.16	0.49	0.65
	tons/yr	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5
						PM10	PM10	Total	PM2.5	PM2.5	Total
2015 Onsite		0.34	3.34	2.10	0.00	0.08	0.22	0.30	0.03	0.21	0.24
2016 Onsite		1.77	3.44	2.32	0.00	0.00	0.25	0.25	0.00	0.23	0.23
2015 Offsite		0.24	2.47	2.62	0.01	0.23	0.04	0.26	0.06	0.03	0.10
2016 Offsite		0.20	1.05	2.54	0.00	0.24	0.02	0.26	0.07	0.01	0.08

Criteria Air Pollutant Emissions Summary - Construction (Annual - Tons/year)

tons/yr		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
3.2 Demolition - 2015											
With Best Control Measures											
Category	tons/yr	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Fugitive Dust						0.02	0.00	0.02	0.00	0.00	0.00
Off-Road		0.03	0.24	0.16	0.00		0.02	0.02		0.02	0.02
Hauling		0.01	0.24	0.12	0.00	0.01	0.00	0.02	0.00	0.00	0.01
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	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total		0.04	0.49	0.29	0.00	0.04	0.02	0.06	0.01	0.02	0.03
Onsite		0.03	0.24	0.16	0.00	0.02	0.02	0.04	0.00	0.02	0.02
Offsite		0.01	0.24	0.13	0.00	0.01	0.00	0.02	0.00	0.00	0.01
3.3 Grading 2015											
With Best Control Measures											
Category	tons/yr	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Fugitive Dust						0.06	0.00	0.06	0.03	0.00	0.03
Off-Road		0.05	0.68	0.38	0.00		0.03	0.03		0.03	0.03
Hauling		0.09	1.50	0.84	0.00	0.07	0.02	0.09	0.02	0.02	0.04
Vendor		0.00	0.02	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker		0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total		0.15	2.20	1.27	0.00	0.14	0.05	0.19	0.05	0.05	0.10
Onsite		0.05	0.68	0.38	0.00	0.06	0.03	0.09	0.03	0.03	0.06
Offsite		0.10	1.52	0.89	0.00	0.07	0.02	0.10	0.02	0.02	0.04

Criteria Air Pollutant Emissions Summary - Construction (Annual - Tons/year)

tons/yr		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
3.4 Trenching 2015											
With Best Control Measures											
Category	tons/yr	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Off-Road		0.03	0.27	0.19	0.00		0.02	0.02		0.02	0.02
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	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total		0.03	0.27	0.20	0.00	0.00	0.02	0.02	0.00	0.02	0.02
Onsite		0.03	0.27	0.19	0.00	0.00	0.02	0.02	0.00	0.02	0.02
Offsite		0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3.5 Building Construction 2015											
With Best Control Measures											
Category	tons/yr	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Off-Road		0.24	2.14	1.38	0.00		0.16	0.16		0.15	0.15
Hauling		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor		0.08	0.62	0.84	0.00	0.03	0.01	0.04	0.01	0.01	0.02
Worker		0.05	0.08	0.75	0.00	0.10	0.00	0.10	0.03	0.00	0.03
Total		0.37	2.84	2.96	0.00	0.14	0.17	0.31	0.04	0.16	0.20
Onsite		0.24	2.14	1.38	0.00	0.00	0.16	0.16	0.00	0.15	0.15
Offsite		0.13	0.70	1.58	0.00	0.14	0.01	0.15	0.04	0.01	0.05

Criteria Air Pollutant Emissions Summary - Construction (Annual - Tons/year)

tons/yr		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
3.7 Architectural Coatings 2016											
With Best Control Measures											
Category	tons/yr	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Archit. Coating		1.39					0.00	0.00		0.00	0.00
Off-Road		0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00
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	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker		0.00	0.01	0.07	0.00	0.01	0.00	0.01	0.00	0.00	0.00
Total		1.40	0.01	0.08	0.00	0.01	0.00	0.01	0.00	0.00	0.00
Onsite		1.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite		0.01	0.01	0.08	0.00	0.01	0.00	0.01	0.00	0.00	0.00

Criteria Air Pollutant Emissions Summary - Construction (Daily - lbs/day)

Annual emissions divided by total construction duration to obtain average daily emissions. Average construction emissions accounts for the duration of each construction phase and the time each piece of construction equipment is onsite.

	avg lbs/day	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Total		10.65	42.86	39.92	0.07	2.31	2.18	4.49	0.68	2.03	2.71
	avg lbs/day										
		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
2015 Onsite		3.14	30.47	19.20	0.03	0.76	2.01	2.78	0.31	1.88	2.19
2016 Onsite		13.57	26.34	17.77	0.03	0.00	1.92	1.92	0.00	1.79	1.79
2015 Offsite		2.21	22.52	23.92	0.06	2.07	0.35	2.42	0.57	0.32	0.89
2016 Offsite		1.53	8.03	19.46	0.04	1.87	0.12	1.98	0.51	0.11	0.62
BAAQMD lbs/day Threshold		54	54	NA	NA	BCM	82	NA	BCM	54	NA
Exceeds		No	No	NA	NA	Mit	No	NA	Mit	No	NA

Criteria Air Pollutant Emissions Summary - Construction (Daily - lbs/day)

Annual emissions divided by total construction duration to obtain average daily emissions. Average construction emissions accounts for the duration of each construction phase and the time each piece of construction equipment is onsite.

3.2 Demolition - 2015		22 days									
With Best Control Measures											
Category	lbs/day	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Fugitive Dust		0.00	0.00	0.00	0.00	2.03	0.00	2.03	0.31	0.00	0.31
Off-Road		2.34	22.23	14.27	0.03	0.00	1.47	1.47	0.00	1.38	1.38
Hauling		1.24	21.75	10.48	0.05	1.03	0.33	1.36	0.28	0.31	0.59
Vendor		0.03	0.23	0.31	0.00	0.01	0.00	0.02	0.00	0.00	0.01
Worker		0.08	0.12	1.21	0.00	0.17	0.00	0.17	0.04	0.00	0.05
Total		3.69	44.33	26.28	0.08	3.23	1.81	5.05	0.64	1.69	2.33
Onsite		2.34	22.23	14.27	0.03	2.03	1.47	3.50	0.31	1.38	1.69
Offsite		1.35	22.10	12.00	0.05	1.21	0.34	1.55	0.33	0.31	0.64
3.3 Grading 2015		43 days									
With Best Control Measures											
Category	lbs/day	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Fugitive Dust		0.00	0.00	0.00	0.00	2.85	0.00	2.85	1.45	0.00	1.45
Off-Road		2.54	31.58	17.87	0.03	0.00	1.27	1.27	0.00	1.17	1.17
Hauling		4.34	69.91	39.16	0.15	3.26	1.06	4.33	0.90	0.98	1.88
Vendor		0.11	0.92	1.25	0.00	0.05	0.01	0.06	0.01	0.01	0.03
Worker		0.07	0.10	0.97	0.00	0.13	0.00	0.14	0.04	0.00	0.04
Total		7.06	102.50	59.25	0.19	6.29	2.35	8.64	2.40	2.16	4.56
Onsite		2.54	31.58	17.87	0.03	2.85	1.27	4.12	1.45	1.17	2.61
Offsite		4.52	70.93	41.38	0.16	3.44	1.08	4.52	0.95	0.99	1.94

Criteria Air Pollutant Emissions Summary - Construction (Daily - lbs/day)

Annual emissions divided by total construction duration to obtain average daily emissions. Average construction emissions accounts for the duration of each construction phase and the time each piece of construction equipment is onsite.

3.4 Trenching 2015		45 days									
With Best Control Measures											
Category	lbs/day	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Off-Road		1.21	12.14	8.24	0.01	0.00	0.82	0.82	0.00	0.76	0.76
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		0.04	0.06	0.60	0.00	0.16	0.00	0.16	0.04	0.00	0.04
Total		1.25	12.20	8.84	0.01	0.16	0.82	0.97	0.04	0.76	0.80
Onsite		1.21	20.38	8.24	0.01	0.00	0.82	0.82	0.76	0.76	0.76
Offsite		0.04	0.06	0.60	0.00	0.16	0.00	0.16	0.04	0.00	0.04
3.5 Building Construction 2015		151 days in 2015									
With Best Control Measures											
Category	lbs/day	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Off-Road		3.14	28.34	18.22	0.03	0.00	2.10	2.10	0.00	1.96	1.96
Hauling		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor		1.01	8.22	11.12	0.02	0.43	0.13	0.56	0.12	0.12	0.25
Worker		0.69	1.01	9.87	0.02	1.37	0.01	1.38	0.37	0.01	0.38
Total		4.84	37.56	39.21	0.06	1.80	2.25	4.05	0.49	2.10	2.59
Onsite		3.14	28.34	18.22	0.03	0.00	2.10	2.10	0.00	1.96	1.96
Offsite		1.70	9.23	20.98	0.03	1.80	0.14	1.94	0.49	0.13	0.63
Trenching + Building Total		4.39	40.54	27.07	0.04	0.16	2.92	3.07	0.04	2.72	2.76
Onsite		4.35	48.72	26.46	0.04	0.00	2.92	2.92	0.76	2.72	2.72
Offsite		1.74	9.29	21.59	0.04	1.96	0.15	2.10	0.53	0.13	0.67

Criteria Air Pollutant Emissions Summary - Construction (Daily - lbs/day)

Annual emissions divided by total construction duration to obtain average daily emissions. Average construction emissions accounts for the duration of each construction phase and the time each piece of construction equipment is onsite.

3.5 Building Construction 2016		264 days in 2016									
With Best Control Measures											
Category	lbs/day	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Off-Road		2.84	25.97	17.51	0.02	0.00	1.89	1.89	0.00	1.77	1.77
Hauling		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor		0.87	6.93	9.96	0.02	0.42	0.10	0.52	0.12	0.09	0.21
Worker		0.60	0.88	8.55	0.02	1.33	0.01	1.34	0.36	0.01	0.37
Total		4.31	33.78	36.03	0.06	1.74	2.01	3.75	0.48	1.87	2.35
Onsite		2.84	25.97	17.51	0.02	0.00	1.89	1.89	0.00	1.77	1.77
Offsite		1.46	7.81	18.51	0.03	1.74	0.11	1.86	0.48	0.10	0.58
3.6 Paving 2016		21 days									
With Best Control Measures											
Category	lbs/day	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Off-Road		0.12	0.95	0.69	0.00	0.00	0.05	0.05	0.00	0.05	0.05
Paving		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor		0.02	0.20	0.29	0.00	0.01	0.00	0.02	0.00	0.00	0.01
Worker		0.08	0.11	1.09	0.00	0.17	0.00	0.17	0.04	0.00	0.05
Total		0.22	1.26	2.06	0.00	0.18	0.06	0.24	0.05	0.06	0.10
Onsite		0.12	0.95	0.69	0.00	0.00	0.05	0.05	0.00	0.05	0.05
Offsite		0.10	0.31	1.37	0.00	0.18	0.00	0.18	0.05	0.00	0.05

Criteria Air Pollutant Emissions Summary - Construction (Daily - lbs/day)

Annual emissions divided by total construction duration to obtain average daily emissions. Average construction emissions accounts for the duration of each construction phase and the time each piece of construction equipment is onsite.

3.7 Architectural Coatings 2016		66 days									
With Best Control Measures											
Category	lbs/day	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Archit. Coating		42.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor		0.03	0.20	0.29	0.00	0.01	0.00	0.02	0.00	0.00	0.01
Worker		0.15	0.22	2.16	0.00	0.34	0.00	0.34	0.09	0.00	0.09
Total		42.43	0.42	2.45	0.00	0.35	0.01	0.35	0.09	0.01	0.10
Onsite		42.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite		0.18	0.42	2.45	0.00	0.35	0.01	0.35	0.09	0.01	0.10
Building + Paving + Coating Total		46.96	35.46	40.54	0.07	2.27	2.07	4.34	0.62	1.93	2.55
Onsite		45.22	26.92	18.20	0.03	0.00	1.95	1.95	0.00	1.82	1.82
Offsite		1.74	8.54	22.34	0.04	2.27	0.12	2.40	0.62	0.11	0.73
Summary of Emissions		480 days									
Maximum Daily		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
		46.96	102.50	59.25	0.19	6.29	2.92	8.64	2.40	2.72	4.56
NOx, CO, SO2, PM10, and PM2.5: occurs for 43 days during grading											
ROG: occurs for 66 days during Building + Coating + Paving											

Criteria Air Pollutant Emissions Summary - Construction (Annual - Tons/year) Mitigated (DPF Level 3)

	tons/yr	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5
						PM10	PM10	Total	PM2.5	PM2.5	Total
Total		2.56	10.29	9.58	0.02	0.55	0.13	0.68	0.16	0.12	0.28
	tons/yr	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5
2015 Onsite		0.34	3.34	2.10	0.00	0.08	0.04	0.12	0.03	0.03	0.07
2016 Onsite		1.77	3.44	2.32	0.00	0.00	0.04	0.04	0.00	0.04	0.04
2015 Offsite		0.24	2.47	2.62	0.01	0.23	0.04	0.26	0.06	0.03	0.10
2016 Offsite		0.20	1.05	2.54	0.00	0.24	0.02	0.26	0.07	0.01	0.08

Criteria Air Pollutant Emissions Summary - Construction (Annual - Tons/year) Mitigated (DPF Level 3)

tons/yr		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
3.2 Demolition - 2015											
With Best Control Measures											
Category	tons/yr	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Fugitive Dust						0.02	0.00	0.02	0.00	0.00	0.00
Off-Road		0.03	0.24	0.16	0.00		0.01	0.01		0.01	0.01
Hauling		0.01	0.24	0.12	0.00	0.01	0.00	0.02	0.00	0.00	0.01
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	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total		0.04	0.49	0.29	0.00	0.04	0.01	0.05	0.01	0.01	0.02
Onsite		0.03	0.24	0.16	0.00	0.02	0.01	0.03	0.00	0.01	0.01
Offsite		0.01	0.24	0.13	0.00	0.01	0.00	0.02	0.00	0.00	0.01
3.3 Grading 2015											
With Best Control Measures											
Category	tons/yr	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Fugitive Dust						0.06	0.00	0.06	0.03	0.00	0.03
Off-Road		0.05	0.68	0.38	0.00		0.00	0.00		0.00	0.00
Hauling		0.09	1.50	0.84	0.00	0.07	0.02	0.09	0.02	0.02	0.04
Vendor		0.00	0.02	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker		0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total		0.15	2.20	1.27	0.00	0.14	0.03	0.16	0.05	0.03	0.08
Onsite		0.05	0.68	0.38	0.00	0.06	0.00	0.07	0.03	0.00	0.03
Offsite		0.10	1.52	0.89	0.00	0.07	0.02	0.10	0.02	0.02	0.04

Criteria Air Pollutant Emissions Summary - Construction (Annual - Tons/year) Mitigated (DPF Level 3)

tons/yr		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
3.4 Trenching 2015											
With Best Control Measures											
Category	tons/yr	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Off-Road		0.03	0.27	0.19	0.00		0.00	0.00		0.00	0.00
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	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total		0.03	0.27	0.20	0.00	0.00	0.00	0.01	0.00	0.00	0.00
Onsite		0.03	0.27	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite		0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3.5 Building Construction 2015											
With Best Control Measures											
Category	tons/yr	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Off-Road		0.24	2.14	1.38	0.00		0.02	0.02		0.02	0.02
Hauling		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor		0.08	0.62	0.84	0.00	0.03	0.01	0.04	0.01	0.01	0.02
Worker		0.05	0.08	0.75	0.00	0.10	0.00	0.10	0.03	0.00	0.03
Total		0.37	2.84	2.96	0.00	0.14	0.03	0.17	0.04	0.03	0.07
Onsite		0.24	2.14	1.38	0.00	0.00	0.02	0.02	0.00	0.02	0.02
Offsite		0.13	0.70	1.58	0.00	0.14	0.01	0.15	0.04	0.01	0.05

Criteria Air Pollutant Emissions Summary - Construction (Annual - Tons/year) Mitigated (DPF Level 3)

tons/yr		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
3.7 Architectural Coatings 2016											
With Best Control Measures											
Category	tons/yr	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Archit. Coating		1.39					0.00	0.00		0.00	0.00
Off-Road		0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00
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	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker		0.00	0.01	0.07	0.00	0.01	0.00	0.01	0.00	0.00	0.00
Total		1.40	0.01	0.08	0.00	0.01	0.00	0.01	0.00	0.00	0.00
Onsite		1.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite		0.01	0.01	0.08	0.00	0.01	0.00	0.01	0.00	0.00	0.00

Criteria Air Pollutant Emissions Summary - Construction (Daily - lbs/day) Mitigated (DPF Level 3)

Annual emissions divided by total construction duration to obtain average daily emissions. Average construction emissions accounts for the duration of each construction phase and the time each piece of construction equipment is onsite.

	avg lbs/day	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Total		10.65	42.86	39.92	0.07	2.31	0.53	2.84	0.68	0.49	1.17
	avg lbs/day										
		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
2015 Onsite		3.14	30.47	19.20	0.03	0.76	0.34	1.10	0.31	0.31	0.63
2016 Onsite		13.57	26.34	17.77	0.03	0.00	0.29	0.29	0.00	0.27	0.27
2015 Offsite		2.21	22.52	23.92	0.06	2.07	0.35	2.42	0.57	0.32	0.89
2016 Offsite		1.53	8.03	19.46	0.04	1.87	0.12	1.98	0.51	0.11	0.62
BAAQMD lbs/day Threshold		54	54	NA	NA	BCM	82	NA	BCM	54	NA
Exceeds		No	No	NA	NA	Mit	No	NA	Mit	No	NA

Criteria Air Pollutant Emissions Summary - Construction (Daily - lbs/day) Mitigated (DPF Level 3)

Annual emissions divided by total construction duration to obtain average daily emissions. Average construction emissions accounts for the duration of each construction phase and the time each piece of construction equipment is onsite.

3.2 Demolition - 2015		22 days									
With Best Control Measures											
Category	lbs/day	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Fugitive Dust		0.00	0.00	0.00	0.00	2.03	0.00	2.03	0.31	0.00	0.31
Off-Road		2.34	22.23	14.27	0.03	0.00	0.55	0.55	0.00	0.54	0.54
Hauling		1.24	21.75	10.48	0.05	1.03	0.33	1.36	0.28	0.31	0.59
Vendor		0.03	0.23	0.31	0.00	0.01	0.00	0.02	0.00	0.00	0.01
Worker		0.08	0.12	1.21	0.00	0.17	0.00	0.17	0.04	0.00	0.05
Total		3.69	44.33	26.28	0.08	3.23	0.89	4.13	0.64	0.85	1.49
Onsite		2.34	22.23	14.27	0.03	2.03	0.55	2.58	0.31	0.54	0.84
Offsite		1.35	22.10	12.00	0.05	1.21	0.34	1.55	0.33	0.31	0.64
3.3 Grading 2015		43 days									
With Best Control Measures											
Category	lbs/day	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Fugitive Dust		0.00	0.00	0.00	0.00	2.85	0.00	2.85	1.45	0.00	1.45
Off-Road		2.54	31.58	17.87	0.03	0.00	0.19	0.19	0.00	0.17	0.17
Hauling		4.34	69.91	39.16	0.15	3.26	1.06	4.33	0.90	0.98	1.88
Vendor		0.11	0.92	1.25	0.00	0.05	0.01	0.06	0.01	0.01	0.03
Worker		0.07	0.10	0.97	0.00	0.13	0.00	0.14	0.04	0.00	0.04
Total		7.06	102.50	59.25	0.19	6.29	1.27	7.56	2.40	1.17	3.57
Onsite		2.54	31.58	17.87	0.03	2.85	0.19	3.04	1.45	0.17	1.62
Offsite		4.52	70.93	41.38	0.16	3.44	1.08	4.52	0.95	0.99	1.94
3.4 Trenching 2015		45 days									

Criteria Air Pollutant Emissions Summary - Construction (Daily - lbs/day) Mitigated (DPF Level 3)

Annual emissions divided by total construction duration to obtain average daily emissions. Average construction emissions accounts for the duration of each construction phase and the time each piece of construction equipment is onsite.

With Best Control Measures

Category	lbs/day	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Off-Road		1.21	12.14	8.24	0.01	0.00	0.12	0.12	0.00	0.11	0.11
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		0.04	0.06	0.60	0.00	0.16	0.00	0.16	0.04	0.00	0.04
Total		1.25	12.20	8.84	0.01	0.16	0.12	0.28	0.04	0.11	0.15
Onsite		1.21	20.38	8.24	0.01	0.00	0.12	0.12	0.11	0.11	0.11
Offsite		0.04	0.06	0.60	0.00	0.16	0.00	0.16	0.04	0.00	0.04
3.5 Building Construction 2015		151 days in 2015									
With Best Control Measures											
Category	lbs/day	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Off-Road		3.14	28.34	18.22	0.03	0.00	0.32	0.32	0.00	0.29	0.29
Hauling		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor		1.01	8.22	11.12	0.02	0.43	0.13	0.56	0.12	0.12	0.25
Worker		0.69	1.01	9.87	0.02	1.37	0.01	1.38	0.37	0.01	0.38
Total		4.84	37.56	39.21	0.06	1.80	0.46	2.26	0.49	0.43	0.92
Onsite		3.14	28.34	18.22	0.03	0.00	0.32	0.32	0.00	0.29	0.29
Offsite		1.70	9.23	20.98	0.03	1.80	0.14	1.94	0.49	0.13	0.63
Trenching + Building Total		4.39	40.54	27.07	0.04	0.16	0.44	0.59	0.04	0.41	0.45
Onsite		4.35	48.72	26.46	0.04	0.00	0.44	0.44	0.11	0.41	0.41
Offsite		1.74	9.29	21.59	0.04	1.96	0.15	2.10	0.53	0.13	0.67

Criteria Air Pollutant Emissions Summary - Construction (Daily - lbs/day) Mitigated (DPF Level 3)

Annual emissions divided by total construction duration to obtain average daily emissions. Average construction emissions accounts for the duration of each construction phase and the time each piece of construction equipment is onsite.

3.5 Building Construction 2016		264 days in 2016									
With Best Control Measures											
Category	lbs/day	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Off-Road		2.84	25.97	17.51	0.02	0.00	0.28	0.28	0.00	0.27	0.27
Hauling		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor		0.87	6.93	9.96	0.02	0.42	0.10	0.52	0.12	0.09	0.21
Worker		0.60	0.88	8.55	0.02	1.33	0.01	1.34	0.36	0.01	0.37
Total		4.31	33.78	36.03	0.06	1.74	0.40	2.14	0.48	0.37	0.85
Onsite		2.84	25.97	17.51	0.02	0.00	0.28	0.28	0.00	0.27	0.27
Offsite		1.46	7.81	18.51	0.03	1.74	0.11	1.86	0.48	0.10	0.58
3.6 Paving 2016		21 days									
With Best Control Measures											
Category	lbs/day	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Off-Road		0.12	0.95	0.69	0.00	0.00	0.02	0.02	0.00	0.02	0.02
Paving		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor		0.02	0.20	0.29	0.00	0.01	0.00	0.02	0.00	0.00	0.01
Worker		0.08	0.11	1.09	0.00	0.17	0.00	0.17	0.04	0.00	0.05
Total		0.22	1.26	2.06	0.00	0.18	0.03	0.21	0.05	0.02	0.07
Onsite		0.12	0.95	0.69	0.00	0.00	0.02	0.02	0.00	0.02	0.02
Offsite		0.10	0.31	1.37	0.00	0.18	0.00	0.18	0.05	0.00	0.05

Criteria Air Pollutant Emissions Summary - Construction (Daily - lbs/day) Mitigated (DPF Level 3)

Annual emissions divided by total construction duration to obtain average daily emissions. Average construction emissions accounts for the duration of each construction phase and the time each piece of construction equipment is onsite.

3.7 Architectural Coatings 2016		66 days									
With Best Control Measures											
Category	lbs/day	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Archit. Coating		42.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor		0.03	0.20	0.29	0.00	0.01	0.00	0.02	0.00	0.00	0.01
Worker		0.15	0.22	2.16	0.00	0.34	0.00	0.34	0.09	0.00	0.09
Total		42.43	0.42	2.45	0.00	0.35	0.01	0.35	0.09	0.01	0.10
Onsite		42.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite		0.18	0.42	2.45	0.00	0.35	0.01	0.35	0.09	0.01	0.10
Building + Paving + Coating Total		46.96	35.46	40.54	0.07	2.27	0.43	2.70	0.62	0.40	1.02
Onsite		45.22	26.92	18.20	0.03	0.00	0.31	0.31	0.00	0.29	0.29
Offsite		1.74	8.54	22.34	0.04	2.27	0.12	2.40	0.62	0.11	0.73
Summary of Emissions		480 days									
Maximum Daily		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
		46.96	102.50	59.25	0.19	6.29	1.27	7.56	2.40	1.17	3.57
NOx, CO, SO2, PM10, and PM2.5: occurs for 43 days during grading											
ROG: occurs for 66 days during Building + Coating + Paving											

The Landing - Construction Contra Costa County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	102.47	1000sqft	0.00	102,470.00	0
Apartments High Rise	178.00	Dwelling Unit	1.78	195,807.00	509

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	58
Climate Zone	4			Operational Year	2017
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use - Project description
- Construction Phase - Construction information
- Off-road Equipment - Provided construction information
- Trips and VMT - Provided construction information
- Demolition - Provided construction information
- Grading - Provided construction information
- Architectural Coating - Parking structure striping, based on CalEEMod methodology for paintable int/ext areas
- Construction Off-road Equipment Mitigation - BAAQMD's Best Management Practices for fugitive dust control

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					
2015	0.5858	5.8022	4.7219	9.6300e-003	0.4398	0.2584	0.6981	0.1471	0.2403	0.3875	0.0000	873.1861	873.1861	0.0859	0.0000	874.9896
2016	1.9710	4.4855	4.8578	7.8800e-003	0.2634	0.2655	0.5290	0.0713	0.2478	0.3191	0.0000	684.2670	684.2670	0.0871	0.0000	686.0955
Total	2.5568	10.2877	9.5797	0.0175	0.7032	0.5239	1.2271	0.2184	0.4882	0.7065	0.0000	1,557.4530	1,557.4530	0.1730	0.0000	1,561.0851

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					
2015	0.5858	5.8022	4.7219	9.6300e-003	0.3103	0.2584	0.5686	0.0966	0.2403	0.3369	0.0000	873.1857	873.1857	0.0859	0.0000	874.9893
2016	1.9710	4.4855	4.8578	7.8800e-003	0.2437	0.2655	0.5093	0.0664	0.2478	0.3143	0.0000	684.2666	684.2666	0.0871	0.0000	686.0952
Total	2.5568	10.2877	9.5797	0.0175	0.5540	0.5239	1.0779	0.1630	0.4882	0.6512	0.0000	1,557.4523	1,557.4523	0.1730	0.0000	1,561.0844

	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
Percent Reduction	0.00	0.00	0.00	0.00	21.22	0.00	12.16	25.35	0.00	7.83	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	3/1/2015	3/31/2015	5	22	
2	Grading	Grading	4/1/2015	5/29/2015	5	43	
3	Trenching	Trenching	6/1/2015	7/31/2015	5	45	
4	Building Construction	Building Construction	6/1/2015	12/30/2016	5	415	
5	Paving	Paving	7/1/2016	7/29/2016	5	21	
6	Architectural Coating	Architectural Coating	7/1/2016	9/30/2016	5	66	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 21.5

Acres of Paving: 0

Residential Indoor: 396,509; Residential Outdoor: 132,170; Non-Residential Indoor: 4,611; Non-Residential Outdoor: 1,537 (Architectural

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	1	8.00	268	0.38
Demolition	Rubber Tired Dozers	1	8.00	78	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	108	0.37
Grading	Excavators	1	8.00	321	0.38
Grading	Graders	1	8.00	180	0.41
Grading	Rubber Tired Dozers	1	8.00	305	0.40
Grading	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Trenching	Excavators	1	8.00	110	0.38
Trenching	Other General Industrial Equipment	1	8.00	87	0.34
Trenching	Tractors/Loaders/Backhoes	1	8.00	160	0.37
Building Construction	Cranes	1	3.40	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	4	8.00	89	0.37
Building Construction	Welders	0	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	0.30	125	0.42
Paving	Paving Equipment	2	0.30	108	0.36
Paving	Rollers	1	0.30	80	0.38
Paving	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Architectural Coating	Air Compressors	0	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	20.00	2.00	610.00	12.40	7.30	47.00	LD_Mix	HDT_Mix	HHDT
Grading	3	16.00	8.00	5,091.00	12.40	7.30	35.00	LD_Mix	HDT_Mix	HHDT
Trenching	3	10.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	160.00	70.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	20.00	2.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	40.00	2.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

- Replace Ground Cover
- Water Exposed Area
- Reduce Vehicle Speed on Unpaved Roads
- Clean Paved Roads

3.2 Demolition - 2015

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					0.0522	0.0000	0.0522	7.9000e-003	0.0000	7.9000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0257	0.2445	0.1570	2.8000e-004		0.0162	0.0162		0.0152	0.0152	0.0000	25.9688	25.9688	6.6200e-003	0.0000	26.1079
Total	0.0257	0.2445	0.1570	2.8000e-004	0.0522	0.0162	0.0684	7.9000e-003	0.0152	0.0231	0.0000	25.9688	25.9688	6.6200e-003	0.0000	26.1079

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	0.0136	0.2392	0.1153	5.3000e-004	0.0121	3.6700e-003	0.0158	3.3200e-003	3.3700e-003	6.6900e-003	0.0000	49.0550	49.0550	4.0000e-004	0.0000	49.0634
Vendor	3.1000e-004	2.5300e-003	3.4300e-003	1.0000e-005	1.4000e-004	4.0000e-005	1.8000e-004	4.0000e-005	4.0000e-005	8.0000e-005	0.0000	0.4798	0.4798	0.0000	0.0000	0.4798
Worker	9.3000e-004	1.3600e-003	0.0133	2.0000e-005	2.0000e-003	2.0000e-005	2.0200e-003	5.3000e-004	2.0000e-005	5.5000e-004	0.0000	1.8729	1.8729	1.1000e-004	0.0000	1.8752
Total	0.0149	0.2431	0.1320	5.6000e-004	0.0142	3.7300e-003	0.0180	3.8900e-003	3.4300e-003	7.3200e-003	0.0000	51.4077	51.4077	5.1000e-004	0.0000	51.4185

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					0.0223	0.0000	0.0223	3.3800e-003	0.0000	3.3800e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0257	0.2445	0.1570	2.8000e-004		0.0162	0.0162		0.0152	0.0152	0.0000	25.9688	25.9688	6.6200e-003	0.0000	26.1079
Total	0.0257	0.2445	0.1570	2.8000e-004	0.0223	0.0162	0.0385	3.3800e-003	0.0152	0.0186	0.0000	25.9688	25.9688	6.6200e-003	0.0000	26.1079

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	0.0136	0.2392	0.1153	5.3000e-004	0.0113	3.6700e-003	0.0150	3.1200e-003	3.3700e-003	6.4900e-003	0.0000	49.0550	49.0550	4.0000e-004	0.0000	49.0634
Vendor	3.1000e-004	2.5300e-003	3.4300e-003	1.0000e-005	1.3000e-004	4.0000e-005	1.7000e-004	4.0000e-005	4.0000e-005	8.0000e-005	0.0000	0.4798	0.4798	0.0000	0.0000	0.4798
Worker	9.3000e-004	1.3600e-003	0.0133	2.0000e-005	1.8500e-003	2.0000e-005	1.8600e-003	4.9000e-004	2.0000e-005	5.1000e-004	0.0000	1.8729	1.8729	1.1000e-004	0.0000	1.8752
Total	0.0149	0.2431	0.1320	5.6000e-004	0.0133	3.7300e-003	0.0170	3.6500e-003	3.4300e-003	7.0800e-003	0.0000	51.4077	51.4077	5.1000e-004	0.0000	51.4185

3.3 Grading - 2015

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					0.1432	0.0000	0.1432	0.0728	0.0000	0.0728	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0546	0.6789	0.3842	5.9000e-004		0.0273	0.0273		0.0251	0.0251	0.0000	56.3106	56.3106	0.0168	0.0000	56.6636
Total	0.0546	0.6789	0.3842	5.9000e-004	0.1432	0.0273	0.1705	0.0728	0.0251	0.0979	0.0000	56.3106	56.3106	0.0168	0.0000	56.6636

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	0.0933	1.5030	0.8420	3.3100e-003	0.0752	0.0228	0.0981	0.0207	0.0210	0.0417	0.0000	305.9322	305.9322	2.5000e-003	0.0000	305.9847
Vendor	2.4500e-003	0.0198	0.0268	4.0000e-005	1.1100e-003	3.2000e-004	1.4300e-003	3.2000e-004	2.9000e-004	6.1000e-004	0.0000	3.7508	3.7508	3.0000e-005	0.0000	3.7515
Worker	1.4500e-003	2.1200e-003	0.0208	4.0000e-005	3.1300e-003	3.0000e-005	3.1600e-003	8.3000e-004	2.0000e-005	8.6000e-004	0.0000	2.9286	2.9286	1.7000e-004	0.0000	2.9322
Total	0.0972	1.5249	0.8896	3.3900e-003	0.0795	0.0232	0.1027	0.0218	0.0213	0.0431	0.0000	312.6115	312.6115	2.7000e-003	0.0000	312.6684

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					0.0612	0.0000	0.0612	0.0311	0.0000	0.0311	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0546	0.6789	0.3842	5.9000e-004		0.0273	0.0273		0.0251	0.0251	0.0000	56.3105	56.3105	0.0168	0.0000	56.6636
Total	0.0546	0.6789	0.3842	5.9000e-004	0.0612	0.0273	0.0885	0.0311	0.0251	0.0562	0.0000	56.3105	56.3105	0.0168	0.0000	56.6636

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	0.0933	1.5030	0.8420	3.3100e-003	0.0701	0.0228	0.0930	0.0194	0.0210	0.0404	0.0000	305.9322	305.9322	2.5000e-003	0.0000	305.9847
Vendor	2.4500e-003	0.0198	0.0268	4.0000e-005	1.0400e-003	3.2000e-004	1.3500e-003	3.0000e-004	2.9000e-004	5.9000e-004	0.0000	3.7508	3.7508	3.0000e-005	0.0000	3.7515
Worker	1.4500e-003	2.1200e-003	0.0208	4.0000e-005	2.8900e-003	3.0000e-005	2.9200e-003	7.7000e-004	2.0000e-005	8.0000e-004	0.0000	2.9286	2.9286	1.7000e-004	0.0000	2.9322
Total	0.0972	1.5249	0.8896	3.3900e-003	0.0741	0.0232	0.0973	0.0205	0.0213	0.0418	0.0000	312.6115	312.6115	2.7000e-003	0.0000	312.6684

3.4 Trenching - 2015

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	0.0272	0.2732	0.1854	2.5000e-004		0.0184	0.0184		0.0170	0.0170	0.0000	23.8799	23.8799	7.1300e-003	0.0000	24.0296
Total	0.0272	0.2732	0.1854	2.5000e-004		0.0184	0.0184		0.0170	0.0170	0.0000	23.8799	23.8799	7.1300e-003	0.0000	24.0296

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.5000e-004	1.3900e-003	0.0136	2.0000e-005	3.8200e-003	2.0000e-005	3.8400e-003	9.8000e-004	2.0000e-005	1.0000e-003	0.0000	1.9155	1.9155	1.1000e-004	0.0000	1.9179
Total	9.5000e-004	1.3900e-003	0.0136	2.0000e-005	3.8200e-003	2.0000e-005	3.8400e-003	9.8000e-004	2.0000e-005	1.0000e-003	0.0000	1.9155	1.9155	1.1000e-004	0.0000	1.9179

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	0.0272	0.2732	0.1854	2.5000e-004		0.0184	0.0184		0.0170	0.0170	0.0000	23.8799	23.8799	7.1300e-003	0.0000	24.0296
Total	0.0272	0.2732	0.1854	2.5000e-004		0.0184	0.0184		0.0170	0.0170	0.0000	23.8799	23.8799	7.1300e-003	0.0000	24.0296

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.5000e-004	1.3900e-003	0.0136	2.0000e-005	3.5000e-003	2.0000e-005	3.5200e-003	9.0000e-004	2.0000e-005	9.2000e-004	0.0000	1.9155	1.9155	1.1000e-004	0.0000	1.9179
Total	9.5000e-004	1.3900e-003	0.0136	2.0000e-005	3.5000e-003	2.0000e-005	3.5200e-003	9.0000e-004	2.0000e-005	9.2000e-004	0.0000	1.9155	1.9155	1.1000e-004	0.0000	1.9179

3.5 Building Construction - 2015

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	0.2368	2.1395	1.3759	1.9200e-003		0.1586	0.1586		0.1482	0.1482	0.0000	178.6705	178.6705	0.0448	0.0000	179.6110
Total	0.2368	2.1395	1.3759	1.9200e-003		0.1586	0.1586		0.1482	0.1482	0.0000	178.6705	178.6705	0.0448	0.0000	179.6110

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0766	0.6206	0.8392	1.2800e-003	0.0347	9.9700e-003	0.0447	9.9400e-003	9.1600e-003	0.0191	0.0000	117.5380	117.5380	1.0500e-003	0.0000	117.5601
Worker	0.0519	0.0760	0.7451	1.3300e-003	0.1122	9.7000e-004	0.1131	0.0298	8.8000e-004	0.0307	0.0000	104.8836	104.8836	6.1500e-003	0.0000	105.0127
Total	0.1286	0.6966	1.5843	2.6100e-003	0.1469	0.0109	0.1578	0.0398	0.0100	0.0498	0.0000	222.4215	222.4215	7.2000e-003	0.0000	222.5728

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	0.2368	2.1395	1.3759	1.9200e-003		0.1586	0.1586		0.1482	0.1482	0.0000	178.6703	178.6703	0.0448	0.0000	179.6108
Total	0.2368	2.1395	1.3759	1.9200e-003		0.1586	0.1586		0.1482	0.1482	0.0000	178.6703	178.6703	0.0448	0.0000	179.6108

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0766	0.6206	0.8392	1.2800e-003	0.0325	9.9700e-003	0.0424	9.3900e-003	9.1600e-003	0.0186	0.0000	117.5380	117.5380	1.0500e-003	0.0000	117.5601
Worker	0.0519	0.0760	0.7451	1.3300e-003	0.1034	9.7000e-004	0.1044	0.0277	8.8000e-004	0.0286	0.0000	104.8836	104.8836	6.1500e-003	0.0000	105.0127
Total	0.1286	0.6966	1.5843	2.6100e-003	0.1359	0.0109	0.1469	0.0371	0.0100	0.0471	0.0000	222.4215	222.4215	7.2000e-003	0.0000	222.5728

3.5 Building Construction - 2016

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	0.3753	3.4278	2.3118	3.2600e-003		0.2497	0.2497		0.2332	0.2332	0.0000	300.2640	300.2640	0.0751	0.0000	301.8405
Total	0.3753	3.4278	2.3118	3.2600e-003		0.2497	0.2497		0.2332	0.2332	0.0000	300.2640	300.2640	0.0751	0.0000	301.8405

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1145	0.9149	1.3148	2.1700e-003	0.0589	0.0135	0.0724	0.0169	0.0124	0.0293	0.0000	196.8764	196.8764	1.5800e-003	0.0000	196.9095
Worker	0.0787	0.1156	1.1288	2.2500e-003	0.1901	1.5500e-003	0.1917	0.0506	1.4200e-003	0.0520	0.0000	171.6769	171.6769	9.5100e-003	0.0000	171.8766
Total	0.1932	1.0305	2.4435	4.4200e-003	0.2490	0.0151	0.2640	0.0674	0.0138	0.0813	0.0000	368.5533	368.5533	0.0111	0.0000	368.7861

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	0.3753	3.4278	2.3118	3.2600e-003		0.2497	0.2497		0.2332	0.2332	0.0000	300.2637	300.2637	0.0751	0.0000	301.8402
Total	0.3753	3.4278	2.3118	3.2600e-003		0.2497	0.2497		0.2332	0.2332	0.0000	300.2637	300.2637	0.0751	0.0000	301.8402

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1145	0.9149	1.3148	2.1700e-003	0.0550	0.0135	0.0685	0.0159	0.0124	0.0283	0.0000	196.8764	196.8764	1.5800e-003	0.0000	196.9095
Worker	0.0787	0.1156	1.1288	2.2500e-003	0.1753	1.5500e-003	0.1769	0.0469	1.4200e-003	0.0483	0.0000	171.6769	171.6769	9.5100e-003	0.0000	171.8766
Total	0.1932	1.0305	2.4435	4.4200e-003	0.2304	0.0151	0.2454	0.0628	0.0138	0.0767	0.0000	368.5533	368.5533	0.0111	0.0000	368.7861

3.6 Paving - 2016

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	1.2500e-003	9.9700e-003	7.2000e-003	1.0000e-005		5.7000e-004	5.7000e-004		5.4000e-004	5.4000e-004	0.0000	0.9949	0.9949	2.0000e-004	0.0000	0.9992
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	1.2500e-003	9.9700e-003	7.2000e-003	1.0000e-005		5.7000e-004	5.7000e-004		5.4000e-004	5.4000e-004	0.0000	0.9949	0.9949	2.0000e-004	0.0000	0.9992

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.6000e-004	2.1000e-003	3.0200e-003	0.0000	1.4000e-004	3.0000e-005	1.7000e-004	4.0000e-005	3.0000e-005	7.0000e-005	0.0000	0.4526	0.4526	0.0000	0.0000	0.4527
Worker	7.9000e-004	1.1600e-003	0.0114	2.0000e-005	1.9100e-003	2.0000e-005	1.9300e-003	5.1000e-004	1.0000e-005	5.2000e-004	0.0000	1.7266	1.7266	1.0000e-004	0.0000	1.7286
Total	1.0500e-003	3.2600e-003	0.0144	2.0000e-005	2.0500e-003	5.0000e-005	2.1000e-003	5.5000e-004	4.0000e-005	5.9000e-004	0.0000	2.1792	2.1792	1.0000e-004	0.0000	2.1813

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	1.2500e-003	9.9700e-003	7.2000e-003	1.0000e-005		5.7000e-004	5.7000e-004		5.4000e-004	5.4000e-004	0.0000	0.9949	0.9949	2.0000e-004	0.0000	0.9992
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	1.2500e-003	9.9700e-003	7.2000e-003	1.0000e-005		5.7000e-004	5.7000e-004		5.4000e-004	5.4000e-004	0.0000	0.9949	0.9949	2.0000e-004	0.0000	0.9992

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.6000e-004	2.1000e-003	3.0200e-003	0.0000	1.3000e-004	3.0000e-005	1.6000e-004	4.0000e-005	3.0000e-005	7.0000e-005	0.0000	0.4526	0.4526	0.0000	0.0000	0.4527
Worker	7.9000e-004	1.1600e-003	0.0114	2.0000e-005	1.7600e-003	2.0000e-005	1.7800e-003	4.7000e-004	1.0000e-005	4.9000e-004	0.0000	1.7266	1.7266	1.0000e-004	0.0000	1.7286
Total	1.0500e-003	3.2600e-003	0.0144	2.0000e-005	1.8900e-003	5.0000e-005	1.9400e-003	5.1000e-004	4.0000e-005	5.6000e-004	0.0000	2.1792	2.1792	1.0000e-004	0.0000	2.1813

3.7 Architectural Coating - 2016

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	1.3944					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	1.3944	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	8.3000e-004	6.6100e-003	9.5000e-003	2.0000e-005	4.3000e-004	1.0000e-004	5.2000e-004	1.2000e-004	9.0000e-005	2.1000e-004	0.0000	1.4224	1.4224	1.0000e-005	0.0000	1.4227
Worker	4.9700e-003	7.3100e-003	0.0714	1.4000e-004	0.0120	1.0000e-004	0.0121	3.2000e-003	9.0000e-005	3.2900e-003	0.0000	10.8531	10.8531	6.0000e-004	0.0000	10.8658
Total	5.8000e-003	0.0139	0.0809	1.6000e-004	0.0125	2.0000e-004	0.0126	3.3200e-003	1.8000e-004	3.5000e-003	0.0000	12.2756	12.2756	6.1000e-004	0.0000	12.2884

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	1.3944					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	1.3944	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	8.3000e-004	6.6100e-003	9.5000e-003	2.0000e-005	4.0000e-004	1.0000e-004	5.0000e-004	1.2000e-004	9.0000e-005	2.0000e-004	0.0000	1.4224	1.4224	1.0000e-005	0.0000	1.4227
Worker	4.9700e-003	7.3100e-003	0.0714	1.4000e-004	0.0111	1.0000e-004	0.0112	2.9700e-003	9.0000e-005	3.0600e-003	0.0000	10.8531	10.8531	6.0000e-004	0.0000	10.8658
Total	5.8000e-003	0.0139	0.0809	1.6000e-004	0.0115	2.0000e-004	0.0117	3.0900e-003	1.8000e-004	3.2600e-003	0.0000	12.2756	12.2756	6.1000e-004	0.0000	12.2884

The Landing - Construction
Contra Costa County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	102.47	1000sqft	0.00	102,470.00	0
Apartments High Rise	178.00	Dwelling Unit	1.78	195,807.00	509

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	58
Climate Zone	4			Operational Year	2017
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Project description

Construction Phase - Construction information

Off-road Equipment - Provided construction information

Trips and VMT - Provided construction information

Demolition - Provided construction information

Grading - Provided construction information

Architectural Coating - Parking structure striping, based on CalEEMod methodology for paintable int/ext areas

Construction Off-road Equipment Mitigation - BAAQMD's Best Management Practices for fugitive dust control

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					
2015	0.5858	5.8022	4.7219	9.6300e-003	0.4398	0.2584	0.6981	0.1471	0.2403	0.3875	0.0000	873.1861	873.1861	0.0859	0.0000	874.9896
2016	1.9710	4.4855	4.8578	7.8800e-003	0.2634	0.2655	0.5290	0.0713	0.2478	0.3191	0.0000	684.2670	684.2670	0.0871	0.0000	686.0955
Total	2.5568	10.2877	9.5797	0.0175	0.7032	0.5239	1.2271	0.2184	0.4882	0.7065	0.0000	1,557.4530	1,557.4530	0.1730	0.0000	1,561.0851

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					
2015	0.5858	5.8022	4.7219	9.6300e-003	0.3103	0.0746	0.3848	0.0966	0.0693	0.1659	0.0000	873.1857	873.1857	0.0859	0.0000	874.9893
2016	1.9710	4.4855	4.8578	7.8800e-003	0.2437	0.0530	0.2967	0.0664	0.0493	0.1157	0.0000	684.2666	684.2666	0.0871	0.0000	686.0952
Total	2.5568	10.2877	9.5797	0.0175	0.5540	0.1275	0.6815	0.1630	0.1185	0.2816	0.0000	1,557.4523	1,557.4523	0.1730	0.0000	1,561.0844

	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
Percent Reduction	0.00	0.00	0.00	0.00	21.22	75.66	44.46	25.35	75.72	60.15	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	3/1/2015	3/31/2015	5	22	
2	Grading	Grading	4/1/2015	5/29/2015	5	43	
3	Trenching	Trenching	6/1/2015	7/31/2015	5	45	
4	Building Construction	Building Construction	6/1/2015	12/30/2016	5	415	
5	Paving	Paving	7/1/2016	7/29/2016	5	21	
6	Architectural Coating	Architectural Coating	7/1/2016	9/30/2016	5	66	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 21.5

Acres of Paving: 0

Residential Indoor: 396,509; Residential Outdoor: 132,170; Non-Residential Indoor: 4,611; Non-Residential Outdoor: 1,537 (Architectural)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	1	8.00	268	0.38

Demolition	Rubber Tired Dozers	1	8.00	78	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	108	0.37
Grading	Excavators	1	8.00	321	0.38
Grading	Graders	1	8.00	180	0.41
Grading	Rubber Tired Dozers	1	8.00	305	0.40
Grading	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Trenching	Excavators	1	8.00	110	0.38
Trenching	Other General Industrial Equipment	1	8.00	87	0.34
Trenching	Tractors/Loaders/Backhoes	1	8.00	160	0.37
Building Construction	Cranes	1	3.40	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	4	8.00	89	0.37
Building Construction	Welders	0	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	0.30	125	0.42
Paving	Paving Equipment	2	0.30	108	0.36
Paving	Rollers	1	0.30	80	0.38
Paving	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Architectural Coating	Air Compressors	0	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	20.00	2.00	610.00	12.40	7.30	47.00	LD_Mix	HDT_Mix	HHDT
Grading	3	16.00	8.00	5,091.00	12.40	7.30	35.00	LD_Mix	HDT_Mix	HHDT
Trenching	3	10.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	160.00	70.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	20.00	2.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	40.00	2.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use DPF for Construction Equipment

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Demolition - 2015

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					0.0522	0.0000	0.0522	7.9000e-003	0.0000	7.9000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0257	0.2445	0.1570	2.8000e-004		0.0162	0.0162		0.0152	0.0152	0.0000	25.9688	25.9688	6.6200e-003	0.0000	26.1079
Total	0.0257	0.2445	0.1570	2.8000e-004	0.0522	0.0162	0.0684	7.9000e-003	0.0152	0.0231	0.0000	25.9688	25.9688	6.6200e-003	0.0000	26.1079

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	0.0136	0.2392	0.1153	5.3000e-004	0.0121	3.6700e-003	0.0158	3.3200e-003	3.3700e-003	6.6900e-003	0.0000	49.0550	49.0550	4.0000e-004	0.0000	49.0634
Vendor	3.1000e-004	2.5300e-003	3.4300e-003	1.0000e-005	1.4000e-004	4.0000e-005	1.8000e-004	4.0000e-005	4.0000e-005	8.0000e-005	0.0000	0.4798	0.4798	0.0000	0.0000	0.4798
Worker	9.3000e-004	1.3600e-003	0.0133	2.0000e-005	2.0000e-003	2.0000e-005	2.0200e-003	5.3000e-004	2.0000e-005	5.5000e-004	0.0000	1.8729	1.8729	1.1000e-004	0.0000	1.8752
Total	0.0149	0.2431	0.1320	5.6000e-004	0.0142	3.7300e-003	0.0180	3.8900e-003	3.4300e-003	7.3200e-003	0.0000	51.4077	51.4077	5.1000e-004	0.0000	51.4185

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					0.0223	0.0000	0.0223	3.3800e-003	0.0000	3.3800e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0257	0.2445	0.1570	2.8000e-004		6.0600e-003	6.0600e-003		5.9100e-003	5.9100e-003	0.0000	25.9688	25.9688	6.6200e-003	0.0000	26.1079
Total	0.0257	0.2445	0.1570	2.8000e-004	0.0223	6.0600e-003	0.0284	3.3800e-003	5.9100e-003	9.2900e-003	0.0000	25.9688	25.9688	6.6200e-003	0.0000	26.1079

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	0.0136	0.2392	0.1153	5.3000e-004	0.0113	3.6700e-003	0.0150	3.1200e-003	3.3700e-003	6.4900e-003	0.0000	49.0550	49.0550	4.0000e-004	0.0000	49.0634
Vendor	3.1000e-004	2.5300e-003	3.4300e-003	1.0000e-005	1.3000e-004	4.0000e-005	1.7000e-004	4.0000e-005	4.0000e-005	8.0000e-005	0.0000	0.4798	0.4798	0.0000	0.0000	0.4798
Worker	9.3000e-004	1.3600e-003	0.0133	2.0000e-005	1.8500e-003	2.0000e-005	1.8600e-003	4.9000e-004	2.0000e-005	5.1000e-004	0.0000	1.8729	1.8729	1.1000e-004	0.0000	1.8752
Total	0.0149	0.2431	0.1320	5.6000e-004	0.0133	3.7300e-003	0.0170	3.6500e-003	3.4300e-003	7.0800e-003	0.0000	51.4077	51.4077	5.1000e-004	0.0000	51.4185

3.3 Grading - 2015

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					0.1432	0.0000	0.1432	0.0728	0.0000	0.0728	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0546	0.6789	0.3842	5.9000e-004		0.0273	0.0273		0.0251	0.0251	0.0000	56.3106	56.3106	0.0168	0.0000	56.6636
Total	0.0546	0.6789	0.3842	5.9000e-004	0.1432	0.0273	0.1705	0.0728	0.0251	0.0979	0.0000	56.3106	56.3106	0.0168	0.0000	56.6636

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	0.0933	1.5030	0.8420	3.3100e-003	0.0752	0.0228	0.0981	0.0207	0.0210	0.0417	0.0000	305.9322	305.9322	2.5000e-003	0.0000	305.9847
Vendor	2.4500e-003	0.0198	0.0268	4.0000e-005	1.1100e-003	3.2000e-004	1.4300e-003	3.2000e-004	2.9000e-004	6.1000e-004	0.0000	3.7508	3.7508	3.0000e-005	0.0000	3.7515
Worker	1.4500e-003	2.1200e-003	0.0208	4.0000e-005	3.1300e-003	3.0000e-005	3.1600e-003	8.3000e-004	2.0000e-005	8.6000e-004	0.0000	2.9286	2.9286	1.7000e-004	0.0000	2.9322
Total	0.0972	1.5249	0.8896	3.3900e-003	0.0795	0.0232	0.1027	0.0218	0.0213	0.0431	0.0000	312.6115	312.6115	2.7000e-003	0.0000	312.6684

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					0.0612	0.0000	0.0612	0.0311	0.0000	0.0311	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0546	0.6789	0.3842	5.9000e-004		4.0900e-003	4.0900e-003		3.7600e-003	3.7600e-003	0.0000	56.3105	56.3105	0.0168	0.0000	56.6636
Total	0.0546	0.6789	0.3842	5.9000e-004	0.0612	4.0900e-003	0.0653	0.0311	3.7600e-003	0.0349	0.0000	56.3105	56.3105	0.0168	0.0000	56.6636

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	0.0933	1.5030	0.8420	3.3100e-003	0.0701	0.0228	0.0930	0.0194	0.0210	0.0404	0.0000	305.9322	305.9322	2.5000e-003	0.0000	305.9847
Vendor	2.4500e-003	0.0198	0.0268	4.0000e-005	1.0400e-003	3.2000e-004	1.3500e-003	3.0000e-004	2.9000e-004	5.9000e-004	0.0000	3.7508	3.7508	3.0000e-005	0.0000	3.7515
Worker	1.4500e-003	2.1200e-003	0.0208	4.0000e-005	2.8900e-003	3.0000e-005	2.9200e-003	7.7000e-004	2.0000e-005	8.0000e-004	0.0000	2.9286	2.9286	1.7000e-004	0.0000	2.9322
Total	0.0972	1.5249	0.8896	3.3900e-003	0.0741	0.0232	0.0973	0.0205	0.0213	0.0418	0.0000	312.6115	312.6115	2.7000e-003	0.0000	312.6684

3.4 Trenching - 2015

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	0.0272	0.2732	0.1854	2.5000e-004		0.0184	0.0184		0.0170	0.0170	0.0000	23.8799	23.8799	7.1300e-003	0.0000	24.0296
Total	0.0272	0.2732	0.1854	2.5000e-004		0.0184	0.0184		0.0170	0.0170	0.0000	23.8799	23.8799	7.1300e-003	0.0000	24.0296

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.5000e-004	1.3900e-003	0.0136	2.0000e-005	3.8200e-003	2.0000e-005	3.8400e-003	9.8000e-004	2.0000e-005	1.0000e-003	0.0000	1.9155	1.9155	1.1000e-004	0.0000	1.9179
Total	9.5000e-004	1.3900e-003	0.0136	2.0000e-005	3.8200e-003	2.0000e-005	3.8400e-003	9.8000e-004	2.0000e-005	1.0000e-003	0.0000	1.9155	1.9155	1.1000e-004	0.0000	1.9179

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	0.0272	0.2732	0.1854	2.5000e-004		2.7600e-003	2.7600e-003		2.5400e-003	2.5400e-003	0.0000	23.8799	23.8799	7.1300e-003	0.0000	24.0296
Total	0.0272	0.2732	0.1854	2.5000e-004		2.7600e-003	2.7600e-003		2.5400e-003	2.5400e-003	0.0000	23.8799	23.8799	7.1300e-003	0.0000	24.0296

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.5000e-004	1.3900e-003	0.0136	2.0000e-005	3.5000e-003	2.0000e-005	3.5200e-003	9.0000e-004	2.0000e-005	9.2000e-004	0.0000	1.9155	1.9155	1.1000e-004	0.0000	1.9179
Total	9.5000e-004	1.3900e-003	0.0136	2.0000e-005	3.5000e-003	2.0000e-005	3.5200e-003	9.0000e-004	2.0000e-005	9.2000e-004	0.0000	1.9155	1.9155	1.1000e-004	0.0000	1.9179

3.5 Building Construction - 2015

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	0.2368	2.1395	1.3759	1.9200e-003		0.1586	0.1586		0.1482	0.1482	0.0000	178.6705	178.6705	0.0448	0.0000	179.6110
Total	0.2368	2.1395	1.3759	1.9200e-003		0.1586	0.1586		0.1482	0.1482	0.0000	178.6705	178.6705	0.0448	0.0000	179.6110

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0766	0.6206	0.8392	1.2800e-003	0.0347	9.9700e-003	0.0447	9.9400e-003	9.1600e-003	0.0191	0.0000	117.5380	117.5380	1.0500e-003	0.0000	117.5601
Worker	0.0519	0.0760	0.7451	1.3300e-003	0.1122	9.7000e-004	0.1131	0.0298	8.8000e-004	0.0307	0.0000	104.8836	104.8836	6.1500e-003	0.0000	105.0127
Total	0.1286	0.6966	1.5843	2.6100e-003	0.1469	0.0109	0.1578	0.0398	0.0100	0.0498	0.0000	222.4215	222.4215	7.2000e-003	0.0000	222.5728

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	0.2368	2.1395	1.3759	1.9200e-003		0.0238	0.0238		0.0222	0.0222	0.0000	178.6703	178.6703	0.0448	0.0000	179.6108
Total	0.2368	2.1395	1.3759	1.9200e-003		0.0238	0.0238		0.0222	0.0222	0.0000	178.6703	178.6703	0.0448	0.0000	179.6108

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0766	0.6206	0.8392	1.2800e-003	0.0325	9.9700e-003	0.0424	9.3900e-003	9.1600e-003	0.0186	0.0000	117.5380	117.5380	1.0500e-003	0.0000	117.5601
Worker	0.0519	0.0760	0.7451	1.3300e-003	0.1034	9.7000e-004	0.1044	0.0277	8.8000e-004	0.0286	0.0000	104.8836	104.8836	6.1500e-003	0.0000	105.0127
Total	0.1286	0.6966	1.5843	2.6100e-003	0.1359	0.0109	0.1469	0.0371	0.0100	0.0471	0.0000	222.4215	222.4215	7.2000e-003	0.0000	222.5728

3.5 Building Construction - 2016

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	0.3753	3.4278	2.3118	3.2600e-003		0.2497	0.2497		0.2332	0.2332	0.0000	300.2640	300.2640	0.0751	0.0000	301.8405
Total	0.3753	3.4278	2.3118	3.2600e-003		0.2497	0.2497		0.2332	0.2332	0.0000	300.2640	300.2640	0.0751	0.0000	301.8405

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1145	0.9149	1.3148	2.1700e-003	0.0589	0.0135	0.0724	0.0169	0.0124	0.0293	0.0000	196.8764	196.8764	1.5800e-003	0.0000	196.9095
Worker	0.0787	0.1156	1.1288	2.2500e-003	0.1901	1.5500e-003	0.1917	0.0506	1.4200e-003	0.0520	0.0000	171.6769	171.6769	9.5100e-003	0.0000	171.8766
Total	0.1932	1.0305	2.4435	4.4200e-003	0.2490	0.0151	0.2640	0.0674	0.0138	0.0813	0.0000	368.5533	368.5533	0.0111	0.0000	368.7861

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	0.3753	3.4278	2.3118	3.2600e-003		0.0375	0.0375		0.0350	0.0350	0.0000	300.2637	300.2637	0.0751	0.0000	301.8402
Total	0.3753	3.4278	2.3118	3.2600e-003		0.0375	0.0375		0.0350	0.0350	0.0000	300.2637	300.2637	0.0751	0.0000	301.8402

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1145	0.9149	1.3148	2.1700e-003	0.0550	0.0135	0.0685	0.0159	0.0124	0.0283	0.0000	196.8764	196.8764	1.5800e-003	0.0000	196.9095
Worker	0.0787	0.1156	1.1288	2.2500e-003	0.1753	1.5500e-003	0.1769	0.0469	1.4200e-003	0.0483	0.0000	171.6769	171.6769	9.5100e-003	0.0000	171.8766
Total	0.1932	1.0305	2.4435	4.4200e-003	0.2304	0.0151	0.2454	0.0628	0.0138	0.0767	0.0000	368.5533	368.5533	0.0111	0.0000	368.7861

3.6 Paving - 2016

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	1.2500e-003	9.9700e-003	7.2000e-003	1.0000e-005		5.7000e-004	5.7000e-004		5.4000e-004	5.4000e-004	0.0000	0.9949	0.9949	2.0000e-004	0.0000	0.9992
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	1.2500e-003	9.9700e-003	7.2000e-003	1.0000e-005		5.7000e-004	5.7000e-004		5.4000e-004	5.4000e-004	0.0000	0.9949	0.9949	2.0000e-004	0.0000	0.9992

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.6000e-004	2.1000e-003	3.0200e-003	0.0000	1.4000e-004	3.0000e-005	1.7000e-004	4.0000e-005	3.0000e-005	7.0000e-005	0.0000	0.4526	0.4526	0.0000	0.0000	0.4527
Worker	7.9000e-004	1.1600e-003	0.0114	2.0000e-005	1.9100e-003	2.0000e-005	1.9300e-003	5.1000e-004	1.0000e-005	5.2000e-004	0.0000	1.7266	1.7266	1.0000e-004	0.0000	1.7286
Total	1.0500e-003	3.2600e-003	0.0144	2.0000e-005	2.0500e-003	5.0000e-005	2.1000e-003	5.5000e-004	4.0000e-005	5.9000e-004	0.0000	2.1792	2.1792	1.0000e-004	0.0000	2.1813

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	1.2500e-003	9.9700e-003	7.2000e-003	1.0000e-005		2.2000e-004	2.2000e-004		2.1000e-004	2.1000e-004	0.0000	0.9949	0.9949	2.0000e-004	0.0000	0.9992
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	1.2500e-003	9.9700e-003	7.2000e-003	1.0000e-005		2.2000e-004	2.2000e-004		2.1000e-004	2.1000e-004	0.0000	0.9949	0.9949	2.0000e-004	0.0000	0.9992

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.6000e-004	2.1000e-003	3.0200e-003	0.0000	1.3000e-004	3.0000e-005	1.6000e-004	4.0000e-005	3.0000e-005	7.0000e-005	0.0000	0.4526	0.4526	0.0000	0.0000	0.4527
Worker	7.9000e-004	1.1600e-003	0.0114	2.0000e-005	1.7600e-003	2.0000e-005	1.7800e-003	4.7000e-004	1.0000e-005	4.9000e-004	0.0000	1.7266	1.7266	1.0000e-004	0.0000	1.7286
Total	1.0500e-003	3.2600e-003	0.0144	2.0000e-005	1.8900e-003	5.0000e-005	1.9400e-003	5.1000e-004	4.0000e-005	5.6000e-004	0.0000	2.1792	2.1792	1.0000e-004	0.0000	2.1813

3.7 Architectural Coating - 2016

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	1.3944					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	1.3944	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	8.3000e-004	6.6100e-003	9.5000e-003	2.0000e-005	4.3000e-004	1.0000e-004	5.2000e-004	1.2000e-004	9.0000e-005	2.1000e-004	0.0000	1.4224	1.4224	1.0000e-005	0.0000	1.4227
Worker	4.9700e-003	7.3100e-003	0.0714	1.4000e-004	0.0120	1.0000e-004	0.0121	3.2000e-003	9.0000e-005	3.2900e-003	0.0000	10.8531	10.8531	6.0000e-004	0.0000	10.8658
Total	5.8000e-003	0.0139	0.0809	1.6000e-004	0.0125	2.0000e-004	0.0126	3.3200e-003	1.8000e-004	3.5000e-003	0.0000	12.2756	12.2756	6.1000e-004	0.0000	12.2884

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	1.3944					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	1.3944	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	8.3000e-004	6.6100e-003	9.5000e-003	2.0000e-005	4.0000e-004	1.0000e-004	5.0000e-004	1.2000e-004	9.0000e-005	2.0000e-004	0.0000	1.4224	1.4224	1.0000e-005	0.0000	1.4227
Worker	4.9700e-003	7.3100e-003	0.0714	1.4000e-004	0.0111	1.0000e-004	0.0112	2.9700e-003	9.0000e-005	3.0600e-003	0.0000	10.8531	10.8531	6.0000e-004	0.0000	10.8658
Total	5.8000e-003	0.0139	0.0809	1.6000e-004	0.0115	2.0000e-004	0.0117	3.0900e-003	1.8000e-004	3.2600e-003	0.0000	12.2756	12.2756	6.1000e-004	0.0000	12.2884

The Landing - Existing Operation
Contra Costa County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Low Rise	17.00	Dwelling Unit	0.99	17,000.00	49
Single Family Housing	4.00	Dwelling Unit	0.79	7,200.00	11

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	58
Climate Zone	4			Operational Year	2017
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - 21 existing dwelling units (4 Single family, 3 duplex buildings, 1 10-unit building)

Construction Phase - Operational Run

Off-road Equipment - Operational run

Off-road Equipment - Provided construction information

Trips and VMT - Operational run

Demolition - Provided construction information

Grading - Provided construction information

Architectural Coating -

Vehicle Trips - Fehr and Peers, 2013

Vehicle Emission Factors - Residential fleet mix

Vehicle Emission Factors - Residential fleet mix

Vehicle Emission Factors - Residential fleet mix

Woodstoves - No wood stoves or fireplaces

Water And Wastewater - 100% aerobic

Construction Off-road Equipment Mitigation - BAAQMD's Best Management Practices for fugitive dust control

Water Mitigation -

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1165	1.8400e-003	0.1575	1.0000e-005		8.6000e-004	8.6000e-004		8.6000e-004	8.6000e-004	0.0000	0.2547	0.2547	2.6000e-004	0.0000	0.2601
Energy	1.7500e-003	0.0150	6.3600e-003	1.0000e-004		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003	0.0000	43.7504	43.7504	1.5300e-003	5.6000e-004	43.9575
Mobile	0.0885	0.0532	0.6157	1.0400e-003	0.0853	7.7000e-004	0.0860	0.0227	7.1000e-004	0.0234	0.0000	75.3707	75.3707	4.0200e-003	0.0000	75.4551
Waste						0.0000	0.0000		0.0000	0.0000	2.5252	0.0000	2.5252	0.1492	0.0000	5.6592
Water						0.0000	0.0000		0.0000	0.0000	0.4841	3.0320	3.5161	1.8000e-003	1.0800e-003	3.8891
Total	0.2067	0.0700	0.7796	1.1500e-003	0.0853	2.8400e-003	0.0881	0.0227	2.7800e-003	0.0254	3.0093	122.4079	125.4172	0.1569	1.6400e-003	129.2210

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	0.1165	1.8400e-003	0.1575	1.0000e-005		8.6000e-004	8.6000e-004		8.6000e-004	8.6000e-004	0.0000	0.2547	0.2547	2.6000e-004	0.0000	0.2601
Energy	1.7500e-003	0.0150	6.3600e-003	1.0000e-004		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003	0.0000	43.7504	43.7504	1.5300e-003	5.6000e-004	43.9575
Mobile	0.0885	0.0532	0.6157	1.0400e-003	0.0853	7.7000e-004	0.0860	0.0227	7.1000e-004	0.0234	0.0000	75.3707	75.3707	4.0200e-003	0.0000	75.4551
Waste						0.0000	0.0000		0.0000	0.0000	2.5252	0.0000	2.5252	0.1492	0.0000	5.6592
Water						0.0000	0.0000		0.0000	0.0000	0.4841	3.0320	3.5161	1.7900e-003	1.0800e-003	3.8884
Total	0.2067	0.0700	0.7796	1.1500e-003	0.0853	2.8400e-003	0.0881	0.0227	2.7800e-003	0.0254	3.0093	122.4079	125.4172	0.1568	1.6400e-003	129.2202

	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
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00

4.0 Operational Detail - Mobile

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	0.0885	0.0532	0.6157	1.0400e-003	0.0853	7.7000e-004	0.0860	0.0227	7.1000e-004	0.0234	0.0000	75.3707	75.3707	4.0200e-003	0.0000	75.4551
Unmitigated	0.0885	0.0532	0.6157	1.0400e-003	0.0853	7.7000e-004	0.0860	0.0227	7.1000e-004	0.0234	0.0000	75.3707	75.3707	4.0200e-003	0.0000	75.4551

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	172.38	172.38	172.38	188,239	188,239
Single Family Housing	40.56	40.56	40.56	44,292	44,292
Total	212.94	212.94	212.94	232,530	232,530

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	3.00	3.00	3.00	26.10	29.10	44.80	100	0	0
Single Family Housing	3.00	3.00	3.00	26.10	29.10	44.80	100	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.666474	0.082174	0.223092	0.020202	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.008058	0.000000	0.000000

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: Y

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	26.4383	26.4383	1.2000e-003	2.5000e-004	26.5401
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	26.4383	26.4383	1.2000e-003	2.5000e-004	26.5401
NaturalGas Mitigated	1.7500e-003	0.0150	6.3600e-003	1.0000e-004		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003	0.0000	17.3121	17.3121	3.3000e-004	3.2000e-004	17.4175
NaturalGas Unmitigated	1.7500e-003	0.0150	6.3600e-003	1.0000e-004		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003	0.0000	17.3121	17.3121	3.3000e-004	3.2000e-004	17.4175

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/yr	tons/yr										MT/yr					
Single Family Housing	141132	7.6000e-004	6.5000e-003	2.7700e-003	4.0000e-005		5.3000e-004	5.3000e-004		5.3000e-004	5.3000e-004	0.0000	7.5313	7.5313	1.4000e-004	1.4000e-004	7.5772
Apartments Low Rise	183285	9.9000e-004	8.4500e-003	3.5900e-003	5.0000e-005		6.8000e-004	6.8000e-004		6.8000e-004	6.8000e-004	0.0000	9.7808	9.7808	1.9000e-004	1.8000e-004	9.8403
Total		1.7500e-003	0.0150	6.3600e-003	9.0000e-005		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003	0.0000	17.3121	17.3121	3.3000e-004	3.2000e-004	17.4175

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/yr	tons/yr										MT/yr					
Single Family Housing	141132	7.6000e-004	6.5000e-003	2.7700e-003	4.0000e-005		5.3000e-004	5.3000e-004		5.3000e-004	5.3000e-004	0.0000	7.5313	7.5313	1.4000e-004	1.4000e-004	7.5772
Apartments Low Rise	183285	9.9000e-004	8.4500e-003	3.5900e-003	5.0000e-005		6.8000e-004	6.8000e-004		6.8000e-004	6.8000e-004	0.0000	9.7808	9.7808	1.9000e-004	1.8000e-004	9.8403
Total		1.7500e-003	0.0150	6.3600e-003	9.0000e-005		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003	0.0000	17.3121	17.3121	3.3000e-004	3.2000e-004	17.4175

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	62589.1	18.2079	8.2000e-004	1.7000e-004	18.2780
Single Family Housing	28291.8	8.2304	3.7000e-004	8.0000e-005	8.2621
Total		26.4383	1.1900e-003	2.5000e-004	26.5401

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	62589.1	18.2079	8.2000e-004	1.7000e-004	18.2780
Single Family Housing	28291.8	8.2304	3.7000e-004	8.0000e-005	8.2621
Total		26.4383	1.1900e-003	2.5000e-004	26.5401

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	0.1165	1.8400e-003	0.1575	1.0000e-005		8.6000e-004	8.6000e-004		8.6000e-004	8.6000e-004	0.0000	0.2547	0.2547	2.6000e-004	0.0000	0.2601
Unmitigated	0.1165	1.8400e-003	0.1575	1.0000e-005		8.6000e-004	8.6000e-004		8.6000e-004	8.6000e-004	0.0000	0.2547	0.2547	2.6000e-004	0.0000	0.2601

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	0.0170					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0945					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.9000e-003	1.8400e-003	0.1575	1.0000e-005		8.6000e-004	8.6000e-004		8.6000e-004	8.6000e-004	0.0000	0.2547	0.2547	2.6000e-004	0.0000	0.2601
Total	0.1165	1.8400e-003	0.1575	1.0000e-005		8.6000e-004	8.6000e-004		8.6000e-004	8.6000e-004	0.0000	0.2547	0.2547	2.6000e-004	0.0000	0.2601

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	0.0170					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0945					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.9000e-003	1.8400e-003	0.1575	1.0000e-005		8.6000e-004	8.6000e-004		8.6000e-004	8.6000e-004	0.0000	0.2547	0.2547	2.6000e-004	0.0000	0.2601
Total	0.1165	1.8400e-003	0.1575	1.0000e-005		8.6000e-004	8.6000e-004		8.6000e-004	8.6000e-004	0.0000	0.2547	0.2547	2.6000e-004	0.0000	0.2601

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	3.5161	1.7900e-003	1.0800e-003	3.8884
Unmitigated	3.5161	1.8000e-003	1.0800e-003	3.8891

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	1.10762 / 0.698281	2.8464	1.4600e-003	8.8000e-004	3.1483
Single Family Housing	0.260616 / 0.164301	0.6697	3.4000e-004	2.1000e-004	0.7408
Total		3.5161	1.8000e-003	1.0900e-003	3.8891

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	1.10762 / 0.698281	2.8464	1.4500e-003	8.7000e-004	3.1477
Single Family Housing	0.260616 / 0.164301	0.6697	3.4000e-004	2.1000e-004	0.7406
Total		3.5161	1.7900e-003	1.0800e-003	3.8884

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Unmitigated	2.5252	0.1492	0.0000	5.6592
Mitigated	2.5252	0.1492	0.0000	5.6592

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	7.82	1.5874	0.0938	0.0000	3.5574
Single Family Housing	4.62	0.9378	0.0554	0.0000	2.1017
Total		2.5252	0.1492	0.0000	5.6592

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	7.82	1.5874	0.0938	0.0000	3.5574
Single Family Housing	4.62	0.9378	0.0554	0.0000	2.1017
Total		2.5252	0.1492	0.0000	5.6592

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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10.0 Vegetation

The Landing - Proposed Operation
Contra Costa County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	102.47	1000sqft	0.00	102,470.00	0
Apartments High Rise	178.00	Dwelling Unit	1.78	195,807.00	509

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	58
Climate Zone	4			Operational Year	2017
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use - Project description
- Construction Phase - Operational Run
- Off-road Equipment - Operational run
- Off-road Equipment - Provided construction information
- Trips and VMT - Operational run
- Demolition - Provided construction information
- Grading - Provided construction information
- Architectural Coating -
- Vehicle Trips - Fehr and Peers, 2013
- Vehicle Emission Factors - Residential fleet mix
- Vehicle Emission Factors - Residential fleet mix
- Vehicle Emission Factors - Residential fleet mix
- Woodstoves - No wood stoves or fireplaces
- Water And Wastewater - 100% aerobic
- Construction Off-road Equipment Mitigation - BAAQMD's Best Management Practices for fugitive dust control
- Water Mitigation -
- Area Coating - Parking structure striping, based on CalEEMod methodology for paintable int/ext areas
- Energy Mitigation - 2013 Building and Energy Efficiency Standards (25% more efficient than 2008 standards)

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.3633	0.0156	1.3359	7.0000e-005		7.2500e-003	7.2500e-003		7.2500e-003	7.2500e-003	0.0000	2.1608	2.1608	2.1700e-003	0.0000	2.2064
Energy	7.8000e-003	0.0667	0.0284	4.3000e-004		5.3900e-003	5.3900e-003		5.3900e-003	5.3900e-003	0.0000	460.7328	460.7328	0.0188	5.0000e-003	462.6792
Mobile	0.4237	0.2550	2.9491	4.9600e-003	0.4085	3.6800e-003	0.4121	0.1086	3.3800e-003	0.1120	0.0000	361.0107	361.0107	0.0192	0.0000	361.4147
Waste						0.0000	0.0000		0.0000	0.0000	16.6209	0.0000	16.6209	0.9823	0.0000	37.2485
Water						0.0000	0.0000		0.0000	0.0000	4.1032	25.7002	29.8033	0.0153	9.1600e-003	32.9650
Total	1.7948	0.3372	4.3134	5.4600e-003	0.4085	0.0163	0.4248	0.1086	0.0160	0.1246	20.7241	849.6045	870.3286	1.0378	0.0142	896.5137

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	1.3633	0.0156	1.3359	7.0000e-005		7.2500e-003	7.2500e-003		7.2500e-003	7.2500e-003	0.0000	2.1608	2.1608	2.1700e-003	0.0000	2.2064
Energy	6.2700e-003	0.0536	0.0228	3.4000e-004		4.3300e-003	4.3300e-003		4.3300e-003	4.3300e-003	0.0000	413.4081	413.4081	0.0171	4.4200e-003	415.1383
Mobile	0.4237	0.2550	2.9491	4.9600e-003	0.4085	3.6800e-003	0.4121	0.1086	3.3800e-003	0.1120	0.0000	361.0107	361.0107	0.0192	0.0000	361.4147
Waste						0.0000	0.0000		0.0000	0.0000	16.6209	0.0000	16.6209	0.9823	0.0000	37.2485
Water						0.0000	0.0000		0.0000	0.0000	3.2826	21.5949	24.8775	0.0122	7.3300e-003	27.4055
Total	1.7932	0.3241	4.3078	5.3700e-003	0.4085	0.0153	0.4237	0.1086	0.0150	0.1235	19.9035	798.1745	818.0780	1.0330	0.0118	843.4134

	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
Percent Reduction	0.09	3.89	0.13	1.65	0.00	6.50	0.25	0.00	6.62	0.85	3.96	6.05	6.00	0.46	17.02	5.92

4.0 Operational Detail - Mobile

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	0.4237	0.2550	2.9491	4.9600e-003	0.4085	3.6800e-003	0.4121	0.1086	3.3800e-003	0.1120	0.0000	361.0107	361.0107	0.0192	0.0000	361.4147
Unmitigated	0.4237	0.2550	2.9491	4.9600e-003	0.4085	3.6800e-003	0.4121	0.1086	3.3800e-003	0.1120	0.0000	361.0107	361.0107	0.0192	0.0000	361.4147

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated Annual VMT	Mitigated Annual VMT
	Weekday	Saturday	Sunday		
Apartments High Rise	1,019.94	1,019.94	1019.94	1,113,774	1,113,774
Enclosed Parking with Elevator	0.00	0.00	0.00		
Total	1,019.94	1,019.94	1,019.94	1,113,774	1,113,774

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments High Rise	3.00	3.00	3.00	26.10	29.10	44.80	100	0	0
Enclosed Parking with Elevator	3.00	3.00	3.00	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.666474	0.082174	0.223092	0.020202	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.008058	0.000000	0.000000

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	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						0.0000	0.0000		0.0000	0.0000	0.0000	351.3840	351.3840	0.0159	3.2900e-003	352.7367
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	383.5305	383.5305	0.0173	3.5900e-003	385.0070
Natural Gas Mitigated	6.2700e-003	0.0536	0.0228	3.4000e-004		4.3300e-003	4.3300e-003		4.3300e-003	4.3300e-003	0.0000	62.0241	62.0241	1.1900e-003	1.1400e-003	62.4016
Natural Gas Unmitigated	7.8000e-003	0.0667	0.0284	4.3000e-004		5.3900e-003	5.3900e-003		5.3900e-003	5.3900e-003	0.0000	77.2023	77.2023	1.4800e-003	1.4200e-003	77.6721

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/yr	tons/yr										MT/yr					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Apartments High Rise	1.44672e+006	7.8000e-003	0.0667	0.0284	4.3000e-004		5.3900e-003	5.3900e-003		5.3900e-003	5.3900e-003	0.0000	77.2023	77.2023	1.4800e-003	1.4200e-003	77.6721
Total		7.8000e-003	0.0667	0.0284	4.3000e-004		5.3900e-003	5.3900e-003		5.3900e-003	5.3900e-003	0.0000	77.2023	77.2023	1.4800e-003	1.4200e-003	77.6721

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/yr	tons/yr										MT/yr					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Apartments High Rise	1.16229e+006	6.2700e-003	0.0536	0.0228	3.4000e-004		4.3300e-003	4.3300e-003		4.3300e-003	4.3300e-003	0.0000	62.0241	62.0241	1.1900e-003	1.1400e-003	62.4016
Total		6.2700e-003	0.0536	0.0228	3.4000e-004		4.3300e-003	4.3300e-003		4.3300e-003	4.3300e-003	0.0000	62.0241	62.0241	1.1900e-003	1.1400e-003	62.4016

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments High Rise	627728	182.6132	8.2600e-003	1.7100e-003	183.3162
Enclosed Parking with Elevator	690648	200.9174	9.0800e-003	1.8800e-003	201.6908
Total		383.5305	0.0173	3.5900e-003	385.0070

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments High Rise	617645	179.6801	8.1200e-003	1.6800e-003	180.3718
Enclosed Parking with Elevator	590227	171.7039	7.7600e-003	1.6100e-003	172.3649
Total		351.3840	0.0159	3.2900e-003	352.7367

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	1.3633	0.0156	1.3359	7.0000e-005		7.2500e-003	7.2500e-003		7.2500e-003	7.2500e-003	0.0000	2.1608	2.1608	2.1700e-003	0.0000	2.2064
Unmitigated	1.3633	0.0156	1.3359	7.0000e-005		7.2500e-003	7.2500e-003		7.2500e-003	7.2500e-003	0.0000	2.1608	2.1608	2.1700e-003	0.0000	2.2064

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	0.1567					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.1649					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0417	0.0156	1.3359	7.0000e-005		7.2500e-003	7.2500e-003		7.2500e-003	7.2500e-003	0.0000	2.1608	2.1608	2.1700e-003	0.0000	2.2064
Total	1.3633	0.0156	1.3359	7.0000e-005		7.2500e-003	7.2500e-003		7.2500e-003	7.2500e-003	0.0000	2.1608	2.1608	2.1700e-003	0.0000	2.2064

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	0.1567					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.1649					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0417	0.0156	1.3359	7.0000e-005		7.2500e-003	7.2500e-003		7.2500e-003	7.2500e-003	0.0000	2.1608	2.1608	2.1700e-003	0.0000	2.2064
Total	1.3633	0.0156	1.3359	7.0000e-005		7.2500e-003	7.2500e-003		7.2500e-003	7.2500e-003	0.0000	2.1608	2.1608	2.1700e-003	0.0000	2.2064

7.0 Water Detail

7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	24.8775	0.0122	7.3300e-003	27.4055
Unmitigated	29.8033	0.0153	9.1600e-003	32.9650

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments High Rise	11.5974 / 7.31141	29.8033	0.0153	9.1600e-003	32.9650
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		29.8033	0.0153	9.1600e-003	32.9650

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments High Rise	9.27793 / 6.86542	24.8775	0.0122	7.3300e-003	27.4055
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		24.8775	0.0122	7.3300e-003	27.4055

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Unmitigated	16.6209	0.9823	0.0000	37.2485
Mitigated	16.6209	0.9823	0.0000	37.2485

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments High Rise	81.88	16.6209	0.9823	0.0000	37.2485
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Total		16.6209	0.9823	0.0000	37.2485

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments High Rise	81.88	16.6209	0.9823	0.0000	37.2485
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Total		16.6209	0.9823	0.0000	37.2485

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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10.0 Vegetation