

Melon Properties - Imperial County, Annual

Melon Properties

Imperial County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Low Rise	152.00	Dwelling Unit	8.19	58,192.70	380

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.4	Precipitation Freq (Days)	12
Climate Zone	15			Operational Year	2021
Utility Company	Imperial Irrigation District				
CO2 Intensity (lb/MW hr)	1270.9	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

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Project Characteristics -

Land Use - Total acreage of the project is 8.19 AC, the project square footage of building area is 58,192.70 with a projected population of 380. Assuming there are 2.5 People in every dwelling unit.

Construction Phase -

Grading -

Demolition -

Road Dust - 27% of the 8.19 AC will be paved for parking requirements and garbage stalls. Roughly 2.18 AC.

Landscape Equipment - There are technically 93 days of summer however in Imperial County we experience more. Imperial County, City of Holtville does not experience snow.

Stationary Sources - User Defined -

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation -

Mobile Commute Mitigation -

Area Mitigation -

Energy Mitigation -

Water Mitigation -

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Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Parking	150.00	0.00
tblAreaCoating	Area_EF_Parking	150	0
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	150	0
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	150	0
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	100	0
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	100	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	0
tblLandscapeEquipment	NumberSummerDays	180	143
tblLandUse	BuildingSpaceSquareFeet	152,000.00	58,192.70
tblLandUse	LandUseSquareFeet	152,000.00	58,192.70
tblLandUse	LotAcreage	9.50	8.19
tblLandUse	Population	491.00	380.00
tblProjectCharacteristics	OperationalYear	2018	2021
tblRoadDust	RoadPercentPave	50	27
tblWaterMitigation	Evapotranspiration	75.5	0

2.0 Emissions Summary

[illegible]

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	4-17-2019	7-16-2019	1,1580	1,1580
2	7-17-2019	10-16-2019	0,8820	0,8820
3	10-17-2019	1-16-2020	0,8657	0,8657
4	1-17-2020	4-16-2020	0,7912	0,7912
5	4-17-2020	7-16-2020	0,7685	0,7685
		Highest	1,1580	1,1580

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	0.2912	0.0132	0.8998	7.0000e-005		5.1800e-003	5.1800e-003		5.1800e-003	5.1800e-003	0.0000	4.6759	4.6759	1.4800e-003	6.0000e-005	4.7305
Energy	0.0162	0.1387	0.0590	8.9000e-004		0.0112	0.0112		0.0112	0.0112	0.0000	621.7954	621.7954	0.0136	5.1200e-003	623.6618
Mobile	0.4918	3.7259	4.7868	0.0124	456.8882	8.7500e-003	456.8969	45.5483	8.2500e-003	45.5565	0.0000	1,151.8297	1,151.8297	0.1023	0.0000	1,154.3876
Waste						0.0000	0.0000		0.0000	0.0000	14.1931	0.0000	14.1931	0.8388	0.0000	35.1629
Water						0.0000	0.0000		0.0000	0.0000	3.1419	114.3240	117.4659	0.3253	8.1600e-003	128.0302
Total	0.7993	3.8777	5.7456	0.0134	456.8882	0.0251	456.9133	45.5483	0.0246	45.5729	17.3350	1,892.6249	1,909.9600	1.2815	0.0133	1,945.9729

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2.2 Overall Operational**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.2545	0.0104	0.8986	5.0000e-005		4.9500e-003	4.9500e-003		4.9500e-003	4.9500e-003	0.0000	1.4646	1.4646	1.4200e-003	0.0000	1,5001
Energy	0.0162	0.1387	0.0590	8.9000e-004		0.0112	0.0112		0.0112	0.0112	0.0000	621.7954	621.7954	0.0136	5.1200e-003	623.6618
Mobile	0.4672	3.5060	4.1761	0.0106	361.0049	7.3200e-003	361.0122	35.9894	6.9000e-003	35.9964	0.0000	985.8243	985.8243	0.0952	0.0000	988.2045
Waste						0.0000	0.0000		0.0000	0.0000	14.1931	0.0000	14.1931	0.8388	0.0000	35.1629
Water						0.0000	0.0000		0.0000	0.0000	3.1419	114.3240	117.4659	0.3253	8.1600e-003	128.0302
Total	0.7379	3.6551	5.1337	0.0116	361.0049	0.0235	361.0284	35.9894	0.0231	36.0125	17.3350	1,723.4083	1,740.7433	1.2743	0.0133	1,776.5594

	ROG	NOx	CO	SO2	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	7.68	5.74	10.65	13.60	20.99	6.60	20.99	20.99	6.41	20.98	0.00	8.94	8.86	0.56	0.45	8.71

3.0 Construction Detail**Construction Phase**

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	4/17/2019	5/14/2019	5	20	
2	Site Preparation	Site Preparation	5/15/2019	5/28/2019	5	10	
3	Grading	Grading	5/29/2019	6/25/2019	5	20	
4	Building Construction	Building Construction	6/26/2019	5/12/2020	5	230	
5	Paving	Paving	5/13/2020	6/9/2020	5	20	
6	Architectural Coating	Architectural Coating	6/10/2020	7/7/2020	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 10

Acres of Paving: 0

Residential Indoor: 117,840; Residential Outdoor: 39,280; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0
(Architectural Coating – sqft)

OffRoad Equipment

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Excavators	3	8.00	158	0.38
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Excavators	1	8.00	158	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Paving	Pavers	2	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Paving	Paving Equipment	2	8.00	132	0.36
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

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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
Architectural Coating	1	22.00	0.00	0.00	7.30	8.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	109.00	16.00	0.00	7.30	8.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	6	15.00	0.00	0.00	7.30	8.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	7.30	8.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	7.30	8.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	7.30	8.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Soil Stabilizer

Replace Ground Cover

Water Exposed Area

Clean Paved Roads

3.2 Demolition - 2019**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	0.0351	0.3578	0.2206	3.9000e-004		0.0180	0.0180		0.0167	0.0167	0.0000	34.6263	34.6263	9.6300e-003	0.0000	34.8672
Total	0.0351	0.3578	0.2206	3.9000e-004		0.0180	0.0180		0.0167	0.0167	0.0000	34.6263	34.6263	9.6300e-003	0.0000	34.8672

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3.2 Demolition - 2019**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	9.4000e-004	7.3000e-004	6.7600e-003	1.0000e-005	0.7797	1.0000e-005	0.7797	0.0779	1.0000e-005	0.0779	0.0000	0.7202	0.7202	6.0000e-005	0.0000	0.7218
Total	9.4000e-004	7.3000e-004	6.7600e-003	1.0000e-005	0.7797	1.0000e-005	0.7797	0.0779	1.0000e-005	0.0779	0.0000	0.7202	0.7202	6.0000e-005	0.0000	0.7218

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	0.0351	0.3578	0.2206	3.9000e-004		0.0180	0.0180		0.0167	0.0167	0.0000	34.6263	34.6263	9.6300e-003	0.0000	34.8671
Total	0.0351	0.3578	0.2206	3.9000e-004		0.0180	0.0180		0.0167	0.0167	0.0000	34.6263	34.6263	9.6300e-003	0.0000	34.8671

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3.2 Demolition - 2019**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	9.4000e-004	7.3000e-004	6.7600e-003	1.0000e-005	0.7797	1.0000e-005	0.7797	0.0779	1.0000e-005	0.0779	0.0000	0.7202	0.7202	6.0000e-005	0.0000	0.7218
Total	9.4000e-004	7.3000e-004	6.7600e-003	1.0000e-005	0.7797	1.0000e-005	0.7797	0.0779	1.0000e-005	0.0779	0.0000	0.7202	0.7202	6.0000e-005	0.0000	0.7218

3.3 Site Preparation - 2019**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					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0217	0.2279	0.1103	1.9000e-004		0.0120	0.0120		0.0110	0.0110	0.0000	17.0843	17.0843	5.4100e-003	0.0000	17.2195
Total	0.0217	0.2279	0.1103	1.9000e-004	0.0903	0.0120	0.1023	0.0497	0.0110	0.0607	0.0000	17.0843	17.0843	5.4100e-003	0.0000	17.2195

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3.3 Site Preparation - 2019**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	5.6000e-004	4.4000e-004	4.0600e-003	0.0000	0.4678	0.0000	0.4678	0.0467	0.0000	0.0467	0.0000	0.4322	0.4322	4.0000e-005	0.0000	0.4331
Total	5.6000e-004	4.4000e-004	4.0600e-003	0.0000	0.4678	0.0000	0.4678	0.0467	0.0000	0.0467	0.0000	0.4322	0.4322	4.0000e-005	0.0000	0.4331

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					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0217	0.2279	0.1103	1.9000e-004		0.0120	0.0120		0.0110	0.0110	0.0000	17.0843	17.0843	5.4100e-003	0.0000	17.2195
Total	0.0217	0.2279	0.1103	1.9000e-004	0.0903	0.0120	0.1023	0.0497	0.0110	0.0607	0.0000	17.0843	17.0843	5.4100e-003	0.0000	17.2195

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3.3 Site Preparation - 2019**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	5.6000e-004	4.4000e-004	4.0600e-003	0.0000	0.4678	0.0000	0.4678	0.0467	0.0000	0.0467	0.0000	0.4322	0.4322	4.0000e-005	0.0000	0.4331
Total	5.6000e-004	4.4000e-004	4.0600e-003	0.0000	0.4678	0.0000	0.4678	0.0467	0.0000	0.0467	0.0000	0.4322	0.4322	4.0000e-005	0.0000	0.4331

3.4 Grading - 2019**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					0.0655	0.0000	0.0655	0.0337	0.0000	0.0337	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0258	0.2835	0.1629	3.0000e-004		0.0140	0.0140		0.0129	0.0129	0.0000	26.6423	26.6423	8.4300e-003	0.0000	26.8530
Total	0.0258	0.2835	0.1629	3.0000e-004	0.0655	0.0140	0.0795	0.0337	0.0129	0.0465	0.0000	26.6423	26.6423	8.4300e-003	0.0000	26.8530

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3.4 Grading - 2019**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	9.4000e-004	7.3000e-004	6.7600e-003	1.0000e-005	0.7797	1.0000e-005	0.7797	0.0779	1.0000e-005	0.0779	0.0000	0.7202	0.7202	6.0000e-005	0.0000	0.7218
Total	9.4000e-004	7.3000e-004	6.7600e-003	1.0000e-005	0.7797	1.0000e-005	0.7797	0.0779	1.0000e-005	0.0779	0.0000	0.7202	0.7202	6.0000e-005	0.0000	0.7218

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					0.0655	0.0000	0.0655	0.0337	0.0000	0.0337	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0258	0.2835	0.1629	3.0000e-004		0.0140	0.0140		0.0129	0.0129	0.0000	26.6422	26.6422	8.4300e-003	0.0000	26.8530
Total	0.0258	0.2835	0.1629	3.0000e-004	0.0655	0.0140	0.0795	0.0337	0.0129	0.0465	0.0000	26.6422	26.6422	8.4300e-003	0.0000	26.8530

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3.4 Grading - 2019**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	9.4000e-004	7.3000e-004	6.7600e-003	1.0000e-005	0.7797	1.0000e-005	0.7797	0.0779	1.0000e-005	0.0779	0.0000	0.7202	0.7202	6.0000e-005	0.0000	0.7218
Total	9.4000e-004	7.3000e-004	6.7600e-003	1.0000e-005	0.7797	1.0000e-005	0.7797	0.0779	1.0000e-005	0.0779	0.0000	0.7202	0.7202	6.0000e-005	0.0000	0.7218

3.5 Building Construction - 2019**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	0.1594	1.4228	1.1586	1.8200e-003		0.0871	0.0871		0.0819	0.0819	0.0000	158.6953	158.6953	0.0387	0.0000	159.6618
Total	0.1594	1.4228	1.1586	1.8200e-003		0.0871	0.0871		0.0819	0.0819	0.0000	158.6953	158.6953	0.0387	0.0000	159.6618

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3.5 Building Construction - 2019**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	5.5600e-003	0.1395	0.0401	3.5000e-004	6.8461	1.0800e-003	6.8472	0.6844	1.0300e-003	0.6854	0.0000	33.0622	33.0622	1.9400e-003	0.0000	33.1106
Worker	0.0459	0.0359	0.3317	3.9000e-004	38.2454	2.9000e-004	38.2457	3.8206	2.7000e-004	3.8208	0.0000	35.3279	35.3279	3.0500e-003	0.0000	35.4042
Total	0.0515	0.1754	0.3719	7.4000e-004	45.0914	1.3700e-003	45.0928	4.5049	1.3000e-003	4.5062	0.0000	68.3901	68.3901	4.9900e-003	0.0000	68.5149

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	0.1594	1.4228	1.1586	1.8200e-003		0.0871	0.0871		0.0819	0.0819	0.0000	158.6951	158.6951	0.0387	0.0000	159.6616
Total	0.1594	1.4228	1.1586	1.8200e-003		0.0871	0.0871		0.0819	0.0819	0.0000	158.6951	158.6951	0.0387	0.0000	159.6616

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3.5 Building Construction - 2019**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	5.5600e-003	0.1395	0.0401	3.5000e-004	6.8461	1.0800e-003	6.8472	0.6844	1.0300e-003	0.6854	0.0000	33.0622	33.0622	1.9400e-003	0.0000	33.1106
Worker	0.0459	0.0359	0.3317	3.9000e-004	38.2454	2.9000e-004	38.2457	3.8206	2.7000e-004	3.8208	0.0000	35.3279	35.3279	3.0500e-003	0.0000	35.4042
Total	0.0515	0.1754	0.3719	7.4000e-004	45.0914	1.3700e-003	45.0928	4.5049	1.3000e-003	4.5062	0.0000	68.3901	68.3901	4.9900e-003	0.0000	68.5149

3.5 Building Construction - 2020**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	0.1007	0.9113	0.8003	1.2800e-003		0.0531	0.0531		0.0499	0.0499	0.0000	110.0147	110.0147	0.0268	0.0000	110.6857
Total	0.1007	0.9113	0.8003	1.2800e-003		0.0531	0.0531		0.0499	0.0499	0.0000	110.0147	110.0147	0.0268	0.0000	110.6857

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3.5 Building Construction - 2020**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	3.4000e-003	0.0884	0.0250	2.4000e-004	4.8176	5.3000e-004	4.8181	0.4816	5.1000e-004	0.4821	0.0000	23.0947	23.0947	1.2800e-003	0.0000	23.1266
Worker	0.0301	0.0230	0.2140	2.7000e-004	26.9134	2.0000e-004	26.9136	2.6885	1.8000e-004	2.6887	0.0000	24.0775	24.0775	1.9600e-003	0.0000	24.1264
Total	0.0335	0.1115	0.2390	5.1000e-004	31.7310	7.3000e-004	31.7318	3.1701	6.9000e-004	3.1708	0.0000	47.1722	47.1722	3.2400e-003	0.0000	47.2531

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	0.1007	0.9113	0.8003	1.2800e-003		0.0531	0.0531		0.0499	0.0499	0.0000	110.0146	110.0146	0.0268	0.0000	110.6856
Total	0.1007	0.9113	0.8003	1.2800e-003		0.0531	0.0531		0.0499	0.0499	0.0000	110.0146	110.0146	0.0268	0.0000	110.6856

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3.5 Building Construction - 2020**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	3.4000e-003	0.0884	0.0250	2.4000e-004	4.8176	5.3000e-004	4.8181	0.4816	5.1000e-004	0.4821	0.0000	23.0947	23.0947	1.2800e-003	0.0000	23.1266
Worker	0.0301	0.0230	0.2140	2.7000e-004	26.9134	2.0000e-004	26.9136	2.6885	1.8000e-004	2.6887	0.0000	24.0775	24.0775	1.9600e-003	0.0000	24.1264
Total	0.0335	0.1115	0.2390	5.1000e-004	31.7310	7.3000e-004	31.7318	3.1701	6.9000e-004	3.1708	0.0000	47.1722	47.1722	3.2400e-003	0.0000	47.2531

3.6 Paving - 2020**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	0.0136	0.1407	0.1465	2.3000e-004		7.5300e-003	7.5300e-003		6.9300e-003	6.9300e-003	0.0000	20.0282	20.0282	6.4800e-003	0.0000	20.1902
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0136	0.1407	0.1465	2.3000e-004		7.5300e-003	7.5300e-003		6.9300e-003	6.9300e-003	0.0000	20.0282	20.0282	6.4800e-003	0.0000	20.1902

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3.6 Paving - 2020**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	8.7000e-004	6.7000e-004	6.2000e-003	1.0000e-005	0.7797	1.0000e-005	0.7797	0.0779	1.0000e-005	0.0779	0.0000	0.6976	0.6976	6.0000e-005	0.0000	0.6990
Total	8.7000e-004	6.7000e-004	6.2000e-003	1.0000e-005	0.7797	1.0000e-005	0.7797	0.0779	1.0000e-005	0.0779	0.0000	0.6976	0.6976	6.0000e-005	0.0000	0.6990

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	0.0136	0.1407	0.1465	2.3000e-004		7.5300e-003	7.5300e-003		6.9300e-003	6.9300e-003	0.0000	20.0282	20.0282	6.4800e-003	0.0000	20.1901
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0136	0.1407	0.1465	2.3000e-004		7.5300e-003	7.5300e-003		6.9300e-003	6.9300e-003	0.0000	20.0282	20.0282	6.4800e-003	0.0000	20.1901

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3.6 Paving - 2020**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	8.7000e-004	6.7000e-004	6.2000e-003	1.0000e-005	0.7797	1.0000e-005	0.7797	0.0779	1.0000e-005	0.0779	0.0000	0.6976	0.6976	6.0000e-005	0.0000	0.6990
Total	8.7000e-004	6.7000e-004	6.2000e-003	1.0000e-005	0.7797	1.0000e-005	0.7797	0.0779	1.0000e-005	0.0779	0.0000	0.6976	0.6976	6.0000e-005	0.0000	0.6990

3.7 Architectural Coating - 2020**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	0.3641					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.4200e-003	0.0168	0.0183	3.0000e-005		1.1100e-003	1.1100e-003		1.1100e-003	1.1100e-003	0.0000	2.5533	2.5533	2.0000e-004	0.0000	2.5582
Total	0.3666	0.0168	0.0183	3.0000e-005		1.1100e-003	1.1100e-003		1.1100e-003	1.1100e-003	0.0000	2.5533	2.5533	2.0000e-004	0.0000	2.5582

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3.7 Architectural Coating - 2020**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	1.2800e-003	9.8000e-004	9.0900e-003	1.0000e-005	1.1436	1.0000e-005	1.1436	0.1142	1.0000e-005	0.1143	0.0000	1.0231	1.0231	8.0000e-005	0.0000	1.0252
Total	1.2800e-003	9.8000e-004	9.0900e-003	1.0000e-005	1.1436	1.0000e-005	1.1436	0.1142	1.0000e-005	0.1143	0.0000	1.0231	1.0231	8.0000e-005	0.0000	1.0252

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	0.3641					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.4200e-003	0.0168	0.0183	3.0000e-005		1.1100e-003	1.1100e-003		1.1100e-003	1.1100e-003	0.0000	2.5533	2.5533	2.0000e-004	0.0000	2.5582
Total	0.3666	0.0168	0.0183	3.0000e-005		1.1100e-003	1.1100e-003		1.1100e-003	1.1100e-003	0.0000	2.5533	2.5533	2.0000e-004	0.0000	2.5582

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3.7 Architectural Coating - 2020**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	1.2800e-003	9.8000e-004	9.0900e-003	1.0000e-005	1.1436	1.0000e-005	1.1436	0.1142	1.0000e-005	0.1143	0.0000	1.0231	1.0231	8.0000e-005	0.0000	1.0252
Total	1.2800e-003	9.8000e-004	9.0900e-003	1.0000e-005	1.1436	1.0000e-005	1.1436	0.1142	1.0000e-005	0.1143	0.0000	1.0231	1.0231	8.0000e-005	0.0000	1.0252

4.0 Operational Detail - Mobile**4.1 Mitigation Measures Mobile**

Increase Density

Increase Diversity

Improve Walkability Design

Integrate Below Market Rate Housing

Improve Pedestrian Network

Provide Traffic Calming Measures

Implement NEV Network

Limit Parking Supply

Implement Trip Reduction Program

Implement School Bus Program

Melon Properties - Imperial County, Annual

	ROG	NOx	CO	SO2	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	0.4672	3.5060	4.1761	0.0106	361.0049	7.3200e-003	361.0122	35.9894	6.9000e-003	35.9964	0.0000	985.8243	985.8243	0.0952	0.0000	988.2045
Unmitigated	0.4918	3.7259	4.7868	0.0124	456.8882	8.7500e-003	456.8969	45.5483	8.2500e-003	45.5565	0.0000	1,151.8297	1,151.8297	0.1023	0.0000	1,154.3876

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	1,001.68	1,088.32	922.64	1,680,936	1,328,172
Total	1,001.68	1,088.32	922.64	1,680,936	1,328,172

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-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	7.30	3.90	3.70	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.509486	0.032430	0.160670	0.124446	0.017653	0.005129	0.019157	0.119824	0.003361	0.001189	0.005223	0.000739	0.000694

5.0 Energy Detail

Melon Properties - Imperial County, Annual

Historical Energy Use: N

5.1 Mitigation Measures Energy

Install High Efficiency Lighting

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	461.1696	461.1696	0.0105	2.1800e-003	462.0815
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	461.1696	461.1696	0.0105	2.1800e-003	462.0815
NaturalGas Mitigated	0.0162	0.1387	0.0590	8.9000e-004		0.0112	0.0112		0.0112	0.0112	0.0000	160.6258	160.6258	3.0800e-003	2.9400e-003	161.5803
NaturalGas Unmitigated	0.0162	0.1387	0.0590	8.9000e-004		0.0112	0.0112		0.0112	0.0112	0.0000	160.6258	160.6258	3.0800e-003	2.9400e-003	161.5803

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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					
Apartments Low Rise	3.01001e+006	0.0162	0.1387	0.0590	8.9000e-004		0.0112	0.0112		0.0112	0.0112	0.0000	160.6258	160.6258	3.0800e-003	2.9400e-003	161.5803
Total		0.0162	0.1387	0.0590	8.9000e-004		0.0112	0.0112		0.0112	0.0112	0.0000	160.6258	160.6258	3.0800e-003	2.9400e-003	161.5803

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					
Apartments Low Rise	3.01001e+006	0.0162	0.1387	0.0590	8.9000e-004		0.0112	0.0112		0.0112	0.0112	0.0000	160.6258	160.6258	3.0800e-003	2.9400e-003	161.5803
Total		0.0162	0.1387	0.0590	8.9000e-004		0.0112	0.0112		0.0112	0.0112	0.0000	160.6258	160.6258	3.0800e-003	2.9400e-003	161.5803

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5.3 Energy by Land Use - Electricity**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	799988	461.1696	0.0105	2.1800e-003	462.0815
Total		461.1696	0.0105	2.1800e-003	462.0815

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	799988	461.1696	0.0105	2.1800e-003	462.0815
Total		461.1696	0.0105	2.1800e-003	462.0815

6.0 Area Detail**6.1 Mitigation Measures Area**

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Use Electric Lawnmower

Use Electric Leafblower

Use Electric Chainsaw

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

No Hearths Installed

	ROG	NOx	CO	SO2	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	0.2545	0.0104	0.8986	5.0000e-005		4.9500e-003	4.9500e-003		4.9500e-003	4.9500e-003	0.0000	1.4646	1.4646	1.4200e-003	0.0000	1.5001
Unmitigated	0.2912	0.0132	0.8998	7.0000e-005		5.1800e-003	5.1800e-003		5.1800e-003	5.1800e-003	0.0000	4.6759	4.6759	1.4800e-003	6.0000e-005	4.7305

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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	0.0364					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2273					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	3.2000e-004	2.7700e-003	1.1800e-003	2.0000e-005		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004	0.0000	3.2113	3.2113	6.0000e-005	6.0000e-005	3.2304
Landscaping	0.0272	0.0104	0.8986	5.0000e-005		4.9500e-003	4.9500e-003		4.9500e-003	4.9500e-003	0.0000	1.4646	1.4646	1.4200e-003	0.0000	1.5001
Total	0.2912	0.0131	0.8998	7.0000e-005		5.1700e-003	5.1700e-003		5.1700e-003	5.1700e-003	0.0000	4.6759	4.6759	1.4800e-003	6.0000e-005	4.7305

Melon Properties - Imperial County, Annual

6.2 Area by SubCategory**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2273					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	0.0272	0.0104	0.8986	5.0000e-005		4.9500e-003	4.9500e-003		4.9500e-003	4.9500e-003	0.0000	1.4646	1.4646	1.4200e-003	0.0000	1.5001
Total	0.2545	0.0104	0.8986	5.0000e-005		4.9500e-003	4.9500e-003		4.9500e-003	4.9500e-003	0.0000	1.4646	1.4646	1.4200e-003	0.0000	1.5001

7.0 Water Detail**7.1 Mitigation Measures Water**

Apply Water Conservation Strategy

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Turf Reduction

Use Water Efficient Irrigation System

Use Water Efficient Landscaping

Melon Properties - Imperial County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	117.4659	0.3253	8.1600e-003	128.0302
Unmitigated	117.4659	0.3253	8.1600e-003	128.0302

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	9.90341 / 6.24346	117.4659	0.3253	8.1600e-003	128.0302
Total		117.4659	0.3253	8.1600e-003	128.0302

Melon Properties - Imperial County, Annual

7.2 Water by Land Use**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	9.90341 / 6.24346	117.4659	0.3253	8.1600e-003	128.0302
Total		117.4659	0.3253	8.1600e-003	128.0302

8.0 Waste Detail**8.1 Mitigation Measures Waste****Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	14.1931	0.8388	0.0000	35.1629
Unmitigated	14.1931	0.8388	0.0000	35.1629

Melon Properties - Imperial County, Annual

8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	69.92	14.1931	0.8388	0.0000	35.1629
Total		14.1931	0.8388	0.0000	35.1629

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	69.92	14.1931	0.8388	0.0000	35.1629
Total		14.1931	0.8388	0.0000	35.1629

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Melon Properties - Imperial County, Annual

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

Melon Properties - Imperial County, Summary Report

Melon Properties
Imperial, Summary Report**1.0 Project Characteristics****1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Low Rise	152.00	Dwelling Unit	8.19	58,192.70	380

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.4	Precipitation Freq (Days)	12
Climate Zone	15			Operational Year	2021
Utility Company	Imperial Irrigation District				
CO2 Intensity (lb/MWhr)	1270.9	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments

Only CalEEMod defaults were used.

Melon Properties - Imperial County, Summary Report

Project Characteristics -

Land Use - Total acreage of the project is 8.19 AC, the project square footage of building area is 58,192.70 with a projected population of 380. Assuming there are 2.5 People in every dwelling unit.

Construction Phase -

Grading -

Demolition -

Road Dust - 27% of the 8.19 AC will be paved for parking requirements and garbage stalls. Roughly 2.18 AC.

Landscape Equipment - There are technically 93 days of summer however in Imperial County we experience more. Imperial County, City of Holtville does not experience snow.

Stationary Sources - User Defined -

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation -

Mobile Commute Mitigation -

Area Mitigation -

Energy Mitigation -

Water Mitigation -

2.0 Peak Daily Emissions

Peak Daily Construction Emissions

Peak Daily Construction Emissions

Melon Properties - Imperial County, Summary Report

[illegible]

Peak Daily Operational Emissions

Peak Daily Operational Emissions

[illegible]

Melon Properties - Imperial County, Summary Report

3.0 Annual GHG Emissions**Annual GHG****Annual GHG**

		Unmitigated				Mitigated			
		CO2	CH4	N2O	CO2e	CO2	CH4	N2O	CO2e
GHG Activity	Year	MT/yr							
Construction	2019	307.3110	0.0673	0.0000	308.9929	307.3107	0.0673	0.0000	308.9927
Construction	2020	181.4890	0.0369	0.0000	182.4114	181.4889	0.0369	0.0000	182.4112
Operational	2021	1,909.9600	1.2815	0.0133	1,945.9714	1,740.7433	1.2743	0.0133	1,776.5592
	Total								
	Significance Threshold								
	Exceed Significance?								

Melon Properties
Imperial County, Mitigation Report

Construction Mitigation Summary

Phase	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Demolition	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

OFFROAD Equipment Mitigation

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Air Compressors	Diesel	No Change	0	1	No Change	0.00
Excavators	Diesel	No Change	0	4	No Change	0.00
Concrete/Industrial Saws	Diesel	No Change	0	1	No Change	0.00
Cranes	Diesel	No Change	0	1	No Change	0.00
Forklifts	Diesel	No Change	0	3	No Change	0.00
Graders	Diesel	No Change	0	1	No Change	0.00
Pavers	Diesel	No Change	0	2	No Change	0.00
Rollers	Diesel	No Change	0	2	No Change	0.00
Rubber Tired Dozers	Diesel	No Change	0	6	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	No Change	0	10	No Change	0.00
Generator Sets	Diesel	No Change	0	1	No Change	0.00
Paving Equipment	Diesel	No Change	0	2	No Change	0.00
Welders	Diesel	No Change	0	1	No Change	0.00

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Unmitigated tons/yr							Unmitigated mt/yr					
Air Compressors	2.42000E-003	1.68400E-002	1.83100E-002	3.00000E-005	1.11000E-003	1.11000E-003	0.00000E+000	2.55325E+000	2.55325E+000	2.00000E-004	0.00000E+000	2.55820E+000
Concrete/Industrial Saws	4.62000E-003	3.58900E-002	3.70200E-002	6.00000E-005	2.29000E-003	2.29000E-003	0.00000E+000	5.37657E+000	5.37657E+000	3.80000E-004	0.00000E+000	5.38603E+000
Cranes	4.86100E-002	5.78870E-001	2.23350E-001	5.80000E-004	2.42800E-002	2.23400E-002	0.00000E+000	5.16749E+001	5.16749E+001	1.65000E-002	0.00000E+000	5.20873E+001
Excavators	1.04300E-002	1.07270E-001	1.30530E-001	2.10000E-004	5.17000E-003	4.76000E-003	0.00000E+000	1.85474E+001	1.85474E+001	5.87000E-003	0.00000E+000	1.86941E+001
Forklifts	5.29100E-002	4.74130E-001	4.10010E-001	5.30000E-004	3.61800E-002	3.32900E-002	0.00000E+000	4.69348E+001	4.69348E+001	1.49800E-002	0.00000E+000	4.73094E+001
Generator Sets	4.89300E-002	4.20240E-001	4.27320E-001	7.60000E-004	2.45700E-002	2.45700E-002	0.00000E+000	6.49989E+001	6.49989E+001	3.93000E-003	0.00000E+000	6.50971E+001
Graders	4.87000E-003	6.58000E-002	1.83800E-002	7.00000E-005	2.11000E-003	1.94000E-003	0.00000E+000	5.96589E+000	5.96589E+000	1.89000E-003	0.00000E+000	6.01308E+000
Pavers	5.25000E-003	5.62100E-002	5.79700E-002	9.00000E-005	2.73000E-003	2.51000E-003	0.00000E+000	8.26032E+000	8.26032E+000	2.67000E-003	0.00000E+000	8.32711E+000
Paving Equipment	4.15000E-003	4.28300E-002	5.06900E-002	8.00000E-005	2.14000E-003	1.97000E-003	0.00000E+000	7.15820E+000	7.15820E+000	2.32000E-003	0.00000E+000	7.21608E+000
Rollers	4.16000E-003	4.16200E-002	3.78700E-002	5.00000E-005	2.65000E-003	2.44000E-003	0.00000E+000	4.60970E+000	4.60970E+000	1.49000E-003	0.00000E+000	4.64698E+000
Rubber Tired Dozers	5.10600E-002	5.43350E-001	1.92780E-001	3.80000E-004	2.64900E-002	2.43700E-002	0.00000E+000	3.45132E+001	3.45132E+001	1.09200E-002	0.00000E+000	3.47862E+001
Tractors/Loaders/Backhoes	7.90100E-002	7.93510E-001	8.07390E-001	1.09000E-003	5.20500E-002	4.78800E-002	0.00000E+000	9.74060E+001	9.74060E+001	3.10600E-002	0.00000E+000	9.81824E+001
Welders	4.22500E-002	1.84280E-001	2.05920E-001	2.90000E-004	1.08500E-002	1.08500E-002	0.00000E+000	2.16454E+001	2.16454E+001	3.45000E-003	0.00000E+000	2.17315E+001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Mitigated tons/yr							Mitigated mt/yr					
Air Compressors	2.42000E-003	1.68400E-002	1.83100E-002	3.00000E-005	1.11000E-003	1.11000E-003	0.00000E+000	2.55325E+000	2.55325E+000	2.00000E-004	0.00000E+000	2.55819E+000
Concrete/Industrial Saws	4.62000E-003	3.58900E-002	3.70200E-002	6.00000E-005	2.29000E-003	2.29000E-003	0.00000E+000	5.37657E+000	5.37657E+000	3.80000E-004	0.00000E+000	5.38603E+000
Cranes	4.86100E-002	5.78870E-001	2.23350E-001	5.80000E-004	2.42800E-002	2.23400E-002	0.00000E+000	5.16748E+001	5.16748E+001	1.65000E-002	0.00000E+000	5.20873E+001
Excavators	1.04300E-002	1.07270E-001	1.30530E-001	2.10000E-004	5.17000E-003	4.76000E-003	0.00000E+000	1.85474E+001	1.85474E+001	5.87000E-003	0.00000E+000	1.86941E+001
Forklifts	5.29100E-002	4.74130E-001	4.10010E-001	5.30000E-004	3.61800E-002	3.32900E-002	0.00000E+000	4.69348E+001	4.69348E+001	1.49800E-002	0.00000E+000	4.73094E+001
Generator Sets	4.89300E-002	4.20240E-001	4.27320E-001	7.60000E-004	2.45700E-002	2.45700E-002	0.00000E+000	6.49988E+001	6.49988E+001	3.93000E-003	0.00000E+000	6.50970E+001
Graders	4.87000E-003	6.58000E-002	1.83800E-002	7.00000E-005	2.11000E-003	1.94000E-003	0.00000E+000	5.96589E+000	5.96589E+000	1.89000E-003	0.00000E+000	6.01307E+000
Pavers	5.25000E-003	5.62100E-002	5.79700E-002	9.00000E-005	2.73000E-003	2.51000E-003	0.00000E+000	8.26031E+000	8.26031E+000	2.67000E-003	0.00000E+000	8.32710E+000
Paving Equipment	4.15000E-003	4.28300E-002	5.06900E-002	8.00000E-005	2.14000E-003	1.97000E-003	0.00000E+000	7.15819E+000	7.15819E+000	2.32000E-003	0.00000E+000	7.21607E+000
Rollers	4.16000E-003	4.16200E-002	3.78700E-002	5.00000E-005	2.65000E-003	2.44000E-003	0.00000E+000	4.60970E+000	4.60970E+000	1.49000E-003	0.00000E+000	4.64697E+000
Rubber Tired Dozers	5.10600E-002	5.43350E-001	1.92780E-001	3.80000E-004	2.64900E-002	2.43700E-002	0.00000E+000	3.45132E+001	3.45132E+001	1.09200E-002	0.00000E+000	3.47861E+001
Tractors/Loaders/Backhoes	7.90100E-002	7.93510E-001	8.07390E-001	1.09000E-003	5.20500E-002	4.78800E-002	0.00000E+000	9.74059E+001	9.74059E+001	3.10600E-002	0.00000E+000	9.81823E+001
Welders	4.22500E-002	1.84280E-001	2.05920E-001	2.90000E-004	1.08500E-002	1.08500E-002	0.00000E+000	2.16454E+001	2.16454E+001	3.45000E-003	0.00000E+000	2.17315E+001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Air Compressors	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	3.90900E-006
Concrete/Industrial Saws	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Cranes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.16111E-006	1.16111E-006	0.00000E+000	0.00000E+000	1.15191E-006
Excavators	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.07832E-006	1.07832E-006	0.00000E+000	0.00000E+000	1.06986E-006
Forklifts	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.06531E-006	1.06531E-006	0.00000E+000	0.00000E+000	1.26825E-006
Generator Sets	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.23079E-006	1.23079E-006	0.00000E+000	0.00000E+000	1.22893E-006
Graders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.66304E-006
Pavers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.21061E-006	1.21061E-006	0.00000E+000	0.00000E+000	1.20090E-006
Paving Equipment	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.39700E-006	1.39700E-006	0.00000E+000	0.00000E+000	1.38579E-006
Rollers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	2.15194E-006
Rubber Tired Dozers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.15898E-006	1.15898E-006	0.00000E+000	0.00000E+000	1.14988E-006
Tractors/Loaders/Backhoes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.12929E-006	1.12929E-006	0.00000E+000	0.00000E+000	1.22221E-006
Welders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	9.23985E-007	9.23985E-007	0.00000E+000	0.00000E+000	1.38048E-006

Fugitive Dust Mitigation

Yes/No Mitigation Measure Mitigation Input Mitigation Input Mitigation Input

Yes	Soil Stabilizer for unpaved Roads	PM10 Reduction	0.00	PM2.5 Reduction	0.00		
Yes	Replace Ground Cover of Area Disturbed	PM10 Reduction	0.00	PM2.5 Reduction	0.00		
Yes	Water Exposed Area	PM10 Reduction	0.00	PM2.5 Reduction	0.00	Frequency (per day)	

No	Unpaved Road Mitigation	Moisture Content %	0.00	Vehicle Speed (mph)	0.00		
Yes	Clean Paved Road	% PM Reduction	0.00				

Phase	Source	Unmitigated		Mitigated		Percent Reduction	
		PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Architectural Coating	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating	Roads	1.14	0.11	1.14	0.11	0.00	0.00
Building Construction	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	Roads	76.82	7.68	76.82	7.68	0.00	0.00
Demolition	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Demolition	Roads	0.78	0.08	0.78	0.08	0.00	0.00
Grading	Fugitive Dust	0.07	0.03	0.07	0.03	0.00	0.00
Grading	Roads	0.78	0.08	0.78	0.08	0.00	0.00
Paving	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Paving	Roads	0.78	0.08	0.78	0.08	0.00	0.00
Site Preparation	Fugitive Dust	0.09	0.05	0.09	0.05	0.00	0.00
Site Preparation	Roads	0.47	0.05	0.47	0.05	0.00	0.00

Operational Percent Reduction Summary

Category	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio-CO2	Total CO	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electricity	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hearth	100.00	100.00	100.00	100.00	100.00	100.00	0.00	100.00	100.00	100.00	100.00	100.00
Landscaping	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	5.02	5.90	12.76	14.49	16.34	16.36	0.00	14.41	14.41	6.95	0.00	14.40
Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Indoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Outdoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Operational Mobile Mitigation

Project Setting:

Mitigation	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value
Yes	Land Use	Increase Density	0.00	152.00		
Yes	Land Use	Increase Diversity	-0.01	0.13		
Yes	Land Use	Improve Walkability Design	-0.12			
No	Land Use	Improve Destination Accessibility	0.00			
No	Land Use	Increase Transit Accessibility	0.25			
Yes	Land Use	Integrate Below Market Rate Housing	0.00			
	Land Use	Land Use SubTotal	0.21			

Yes	Neighborhood Enhancements	Improve Pedestrian Network				
Yes	Neighborhood Enhancements	Provide Traffic Calming Measures				
Yes	Neighborhood Enhancements	Implement NEV Network	0.01			
	Neighborhood Enhancements	Neighborhood Enhancements Subtotal	0.01			
Yes	Parking Policy Pricing	Limit Parking Supply	0.00			
No	Parking Policy Pricing	Unbundle Parking Costs	0.00			
No	Parking Policy Pricing	On-street Market Pricing	0.00			
	Parking Policy Pricing	Parking Policy Pricing Subtotal	0.00			
No	Transit Improvements	Provide BRT System	0.00			
No	Transit Improvements	Expand Transit Network	0.00			
No	Transit Improvements	Increase Transit Frequency	0.00			
	Transit Improvements	Transit Improvements Subtotal	0.00			
		Land Use and Site Enhancement Subtotal	0.21			
Yes	Commute	Implement Trip Reduction Program	0.00	0.00		
No	Commute	Transit Subsidy	0.00	0.00		
No	Commute	Implement Employee Parking "Cash Out"	0.00	0.00		
No	Commute	Workplace Parking Charge	0.00			
No	Commute	Encourage Telecommuting and Alternative Work Schedules	0.00	0.00	0.00	0.00
No	Commute	Market Commute Trip Reduction Option	0.00	0.00		
No	Commute	Employee Vanpool/Shuttle	0.00	0.00	2.00	
No	Commute	Provide Ride Sharing Program	0.00	0.00		
	Commute	Commute Subtotal	0.00			

Yes	School Trip	Implement School Bus Program	0.00	0.00		
		Total VMT Reduction	0.21			

Area Mitigation

Measure Implemented	Mitigation Measure	Input Value
No	Only Natural Gas Hearth	
Yes	No Hearth	
No	Use Low VOC Cleaning Supplies	
Yes	Use Low VOC Paint (Residential Interior)	0.00
Yes	Use Low VOC Paint (Residential Exterior)	0.00
Yes	Use Low VOC Paint (Non-residential Interior)	0.00
Yes	Use Low VOC Paint (Non-residential Exterior)	0.00
Yes	Use Low VOC Paint (Parking)	0.00
Yes	% Electric Lawnmower	0.00
Yes	% Electric Leafblower	0.00
Yes	% Electric Chainsaw	0.00

Energy Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Exceed Title 24		
Yes	Install High Efficiency Lighting		
No	On-site Renewable		

Appliance Type	Land Use Subtype	% Improvement
ClothWasher		30.00
DishWasher		15.00
Fan		50.00
Refrigerator		15.00

Water Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
Yes	Apply Water Conservation on Strategy	0.00	0.00
No	Use Reclaimed Water	0.00	0.00
No	Use Grey Water	0.00	
Yes	Install low-flow bathroom faucet	32.00	
Yes	Install low-flow Kitchen faucet	18.00	
Yes	Install low-flow Toilet	20.00	
Yes	Install low-flow Shower	20.00	
Yes	Turf Reduction	0.00	
Yes	Use Water Efficient Irrigation Systems	6.10	
Yes	Water Efficient Landscape	0.00	0.00

Solid Waste Mitigation

Mitigation Measures	Input Value
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Institute Recycling and Composting Services Percent Reduction in Waste Disposed	
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