

5696 Stevens Creek Blvd. Hotel - AC by Marriott - Santa Clara County, Winter

5696 Stevens Creek Blvd. Hotel - AC by Marriott
Santa Clara County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	100.00	Space	0.00	49,590.00	0
Hotel	168.00	Room	0.42	77,900.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	58
Climate Zone	4			Operational Year	2020
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	641.35	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Assumed start of construction - January 1, 2019
 Building square footage set to 77,900 sq. ft. for proposed 7 stories
 100 parking spaces

Construction Phase - Estimated construction time - 18 months

Grading - Grading includes excavation - 17,000 CY per Civil Plans

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	5.00	70.00
tblConstructionPhase	NumDays	100.00	220.00

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tblConstructionPhase	NumDays	10.00	20.00
tblConstructionPhase	NumDays	2.00	60.00
tblConstructionPhase	NumDays	5.00	10.00
tblConstructionPhase	NumDays	1.00	2.00
tblConstructionPhase	PhaseEndDate	6/20/2019	6/17/2020
tblConstructionPhase	PhaseEndDate	6/6/2019	2/26/2020
tblConstructionPhase	PhaseEndDate	1/14/2019	1/28/2019
tblConstructionPhase	PhaseEndDate	1/17/2019	4/24/2019
tblConstructionPhase	PhaseEndDate	6/13/2019	3/11/2020
tblConstructionPhase	PhaseEndDate	1/15/2019	1/30/2019
tblConstructionPhase	PhaseStartDate	6/14/2019	3/12/2020
tblConstructionPhase	PhaseStartDate	1/18/2019	4/25/2019
tblConstructionPhase	PhaseStartDate	1/16/2019	1/31/2019
tblConstructionPhase	PhaseStartDate	6/7/2019	2/27/2020
tblConstructionPhase	PhaseStartDate	1/15/2019	1/29/2019
tblGrading	AcresOfGrading	0.00	0.42
tblGrading	AcresOfGrading	1.00	0.42
tblGrading	MaterialExported	0.00	17,000.00
tblLandUse	BuildingSpaceSquareFeet	40,000.00	49,590.00
tblLandUse	BuildingSpaceSquareFeet	243,936.00	77,900.00
tblLandUse	LandUseSquareFeet	40,000.00	49,590.00
tblLandUse	LandUseSquareFeet	243,936.00	77,900.00
tblLandUse	LotAcreage	0.90	0.00
tblLandUse	LotAcreage	5.60	0.42
tblProjectCharacteristics	OperationalYear	2018	2020

2.0 Emissions Summary

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2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.9155	2.5000e-004	0.0275	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		0.0587	0.0587	1.6000e-004		0.0626
Energy	0.1025	0.9313	0.7823	5.5900e-003		0.0708	0.0708		0.0708	0.0708		1,117.5919	1,117.5919	0.0214	0.0205	1,124.2332
Mobile	1.9287	7.8312	21.9858	0.0617	5.5298	0.0636	5.5934	1.4762	0.0596	1.5358		6,212.2962	6,212.2962	0.2450		6,218.4210
Total	3.9466	8.7627	22.7956	0.0673	5.5298	0.1344	5.6643	1.4762	0.1305	1.6066		7,329.9468	7,329.9468	0.2666	0.0205	7,342.7168

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.9155	2.5000e-004	0.0275	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		0.0587	0.0587	1.6000e-004		0.0626
Energy	0.1025	0.9313	0.7823	5.5900e-003		0.0708	0.0708		0.0708	0.0708		1,117.5919	1,117.5919	0.0214	0.0205	1,124.2332
Mobile	1.9287	7.8312	21.9858	0.0617	5.5298	0.0636	5.5934	1.4762	0.0596	1.5358		6,212.2962	6,212.2962	0.2450		6,218.4210
Total	3.9466	8.7627	22.7956	0.0673	5.5298	0.1344	5.6643	1.4762	0.1305	1.6066		7,329.9468	7,329.9468	0.2666	0.0205	7,342.7168

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	ROG	NOx	CO	SO2	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	0.00	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	1/1/2019	1/28/2019	5	20	
2	Site Preparation	Site Preparation	1/29/2019	1/30/2019	5	2	
3	Grading	Grading	1/31/2019	4/24/2019	5	60	
4	Building Construction	Building Construction	4/25/2019	2/26/2020	5	220	
5	Paving	Paving	2/27/2020	3/11/2020	5	10	
6	Architectural Coating	Architectural Coating	3/12/2020	6/17/2020	5	70	

Acres of Grading (Site Preparation Phase): 0.415

Acres of Grading (Grading Phase): 0.415

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 116,850; Non-Residential Outdoor: 38,950; Striped Parking Area: 2,975 (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
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Site Preparation	Graders	1	8.00	187	0.41
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Demolition	Rubber Tired Dozers	1	1.00	247	0.40
Grading	Rubber Tired Dozers	1	1.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37

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
Architectural Coating	1	11.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	54.00	21.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	2,125.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

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3.1 Mitigation Measures Construction

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	lb/day										lb/day					
Off-Road	0.9530	8.6039	7.6917	0.0120		0.5371	0.5371		0.5125	0.5125		1,159.6570	1,159.6570	0.2211		1,165.1847
Total	0.9530	8.6039	7.6917	0.0120		0.5371	0.5371		0.5125	0.5125		1,159.6570	1,159.6570	0.2211		1,165.1847

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	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
Worker	0.0404	0.0295	0.2851	7.7000e-004	0.0822	5.2000e-004	0.0827	0.0218	4.8000e-004	0.0223		76.4349	76.4349	2.1100e-003		76.4876
Total	0.0404	0.0295	0.2851	7.7000e-004	0.0822	5.2000e-004	0.0827	0.0218	4.8000e-004	0.0223		76.4349	76.4349	2.1100e-003		76.4876

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3.2 Demolition - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9530	8.6039	7.6917	0.0120		0.5371	0.5371		0.5125	0.5125	0.0000	1,159.6570	1,159.6570	0.2211		1,165.1847
Total	0.9530	8.6039	7.6917	0.0120		0.5371	0.5371		0.5125	0.5125	0.0000	1,159.6570	1,159.6570	0.2211		1,165.1847

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	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
Worker	0.0404	0.0295	0.2851	7.7000e-004	0.0822	5.2000e-004	0.0827	0.0218	4.8000e-004	0.0223		76.4349	76.4349	2.1100e-003		76.4876
Total	0.0404	0.0295	0.2851	7.7000e-004	0.0822	5.2000e-004	0.0827	0.0218	4.8000e-004	0.0223		76.4349	76.4349	2.1100e-003		76.4876

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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	lb/day										lb/day					
Fugitive Dust					0.2201	0.0000	0.2201	0.0238	0.0000	0.0238			0.0000			0.0000
Off-Road	0.7195	8.9170	4.1407	9.7500e-003		0.3672	0.3672		0.3378	0.3378		965.1690	965.1690	0.3054		972.8032
Total	0.7195	8.9170	4.1407	9.7500e-003	0.2201	0.3672	0.5873	0.0238	0.3378	0.3616		965.1690	965.1690	0.3054		972.8032

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	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
Worker	0.0202	0.0148	0.1425	3.8000e-004	0.0411	2.6000e-004	0.0413	0.0109	2.4000e-004	0.0111		38.2174	38.2174	1.0600e-003		38.2438
Total	0.0202	0.0148	0.1425	3.8000e-004	0.0411	2.6000e-004	0.0413	0.0109	2.4000e-004	0.0111		38.2174	38.2174	1.0600e-003		38.2438

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3.3 Site Preparation - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2201	0.0000	0.2201	0.0238	0.0000	0.0238			0.0000			0.0000
Off-Road	0.7195	8.9170	4.1407	9.7500e-003		0.3672	0.3672		0.3378	0.3378	0.0000	965.1690	965.1690	0.3054		972.8032
Total	0.7195	8.9170	4.1407	9.7500e-003	0.2201	0.3672	0.5873	0.0238	0.3378	0.3616	0.0000	965.1690	965.1690	0.3054		972.8032

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	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
Worker	0.0202	0.0148	0.1425	3.8000e-004	0.0411	2.6000e-004	0.0413	0.0109	2.4000e-004	0.0111		38.2174	38.2174	1.0600e-003		38.2438
Total	0.0202	0.0148	0.1425	3.8000e-004	0.0411	2.6000e-004	0.0413	0.0109	2.4000e-004	0.0111		38.2174	38.2174	1.0600e-003		38.2438

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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	lb/day										lb/day					
Fugitive Dust					0.7921	0.0000	0.7921	0.4194	0.0000	0.4194			0.0000			0.0000
Off-Road	0.9530	8.6039	7.6917	0.0120		0.5371	0.5371		0.5125	0.5125		1,159.6570	1,159.6570	0.2211		1,165.1847
Total	0.9530	8.6039	7.6917	0.0120	0.7921	0.5371	1.3292	0.4194	0.5125	0.9319		1,159.6570	1,159.6570	0.2211		1,165.1847

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.3271	11.0723	2.2776	0.0280	0.6189	0.0428	0.6617	0.1696	0.0410	0.2106		2,979.4919	2,979.4919	0.1449		2,983.1140
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
Worker	0.0404	0.0295	0.2851	7.7000e-004	0.0822	5.2000e-004	0.0827	0.0218	4.8000e-004	0.0223		76.4349	76.4349	2.1100e-003		76.4876
Total	0.3675	11.1019	2.5627	0.0287	0.7011	0.0433	0.7444	0.1914	0.0414	0.2328		3,055.9267	3,055.9267	0.1470		3,059.6016

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3.4 Grading - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7921	0.0000	0.7921	0.4194	0.0000	0.4194			0.0000			0.0000
Off-Road	0.9530	8.6039	7.6917	0.0120		0.5371	0.5371		0.5125	0.5125	0.0000	1,159.6570	1,159.6570	0.2211		1,165.1847
Total	0.9530	8.6039	7.6917	0.0120	0.7921	0.5371	1.3292	0.4194	0.5125	0.9319	0.0000	1,159.6570	1,159.6570	0.2211		1,165.1847

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.3271	11.0723	2.2776	0.0280	0.6189	0.0428	0.6617	0.1696	0.0410	0.2106		2,979.4919	2,979.4919	0.1449		2,983.1140
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
Worker	0.0404	0.0295	0.2851	7.7000e-004	0.0822	5.2000e-004	0.0827	0.0218	4.8000e-004	0.0223		76.4349	76.4349	2.1100e-003		76.4876
Total	0.3675	11.1019	2.5627	0.0287	0.7011	0.0433	0.7444	0.1914	0.0414	0.2328		3,055.9267	3,055.9267	0.1470		3,059.6016

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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	lb/day										lb/day					
Off-Road	0.9576	9.8207	7.5432	0.0114		0.6054	0.6054		0.5569	0.5569		1,127.6696	1,127.6696	0.3568		1,136.5892
Total	0.9576	9.8207	7.5432	0.0114		0.6054	0.6054		0.5569	0.5569		1,127.6696	1,127.6696	0.3568		1,136.5892

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	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	0.1059	2.6517	0.7610	5.6800e-003	0.1422	0.0192	0.1614	0.0409	0.0184	0.0593		600.0259	600.0259	0.0315		600.8125
Worker	0.2182	0.1595	1.5394	4.1400e-003	0.4436	2.8300e-003	0.4464	0.1177	2.6100e-003	0.1203		412.7482	412.7482	0.0114		413.0331
Total	0.3241	2.8112	2.3003	9.8200e-003	0.5858	0.0221	0.6078	0.1586	0.0210	0.1796		1,012.7741	1,012.7741	0.0429		1,013.8456

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3.5 Building Construction - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9576	9.8207	7.5432	0.0114		0.6054	0.6054		0.5569	0.5569	0.0000	1,127.6696	1,127.6696	0.3568		1,136.5892
Total	0.9576	9.8207	7.5432	0.0114		0.6054	0.6054		0.5569	0.5569	0.0000	1,127.6696	1,127.6696	0.3568		1,136.5892

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	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	0.1059	2.6517	0.7610	5.6800e-003	0.1422	0.0192	0.1614	0.0409	0.0184	0.0593		600.0259	600.0259	0.0315		600.8125
Worker	0.2182	0.1595	1.5394	4.1400e-003	0.4436	2.8300e-003	0.4464	0.1177	2.6100e-003	0.1203		412.7482	412.7482	0.0114		413.0331
Total	0.3241	2.8112	2.3003	9.8200e-003	0.5858	0.0221	0.6078	0.1586	0.0210	0.1796		1,012.7741	1,012.7741	0.0429		1,013.8456

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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	lb/day										lb/day					
Off-Road	0.8617	8.8523	7.3875	0.0114		0.5224	0.5224		0.4806	0.4806		1,102.978 1	1,102.978 1	0.3567		1,111.896 2
Total	0.8617	8.8523	7.3875	0.0114		0.5224	0.5224		0.4806	0.4806		1,102.978 1	1,102.978 1	0.3567		1,111.896 2

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	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	0.0859	2.3888	0.6814	5.6400e-003	0.1422	0.0120	0.1541	0.0409	0.0114	0.0524		596.1986	596.1986	0.0289		596.9212
Worker	0.1997	0.1408	1.3762	4.0100e-003	0.4436	2.7700e-003	0.4464	0.1177	2.5500e-003	0.1202		399.8517	399.8517	9.9100e-003		400.0996
Total	0.2855	2.5296	2.0576	9.6500e-003	0.5858	0.0147	0.6005	0.1586	0.0140	0.1726		996.0503	996.0503	0.0388		997.0207

5696 Stevens Creek Blvd. Hotel - AC by Marriott - Santa Clara County, Winter

3.5 Building Construction - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8617	8.8523	7.3875	0.0114		0.5224	0.5224		0.4806	0.4806	0.0000	1,102.978 1	1,102.978 1	0.3567		1,111.896 2
Total	0.8617	8.8523	7.3875	0.0114		0.5224	0.5224		0.4806	0.4806	0.0000	1,102.978 1	1,102.978 1	0.3567		1,111.896 2

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	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	0.0859	2.3888	0.6814	5.6400e-003	0.1422	0.0120	0.1541	0.0409	0.0114	0.0524		596.1986	596.1986	0.0289		596.9212
Worker	0.1997	0.1408	1.3762	4.0100e-003	0.4436	2.7700e-003	0.4464	0.1177	2.5500e-003	0.1202		399.8517	399.8517	9.9100e-003		400.0996
Total	0.2855	2.5296	2.0576	9.6500e-003	0.5858	0.0147	0.6005	0.1586	0.0140	0.1726		996.0503	996.0503	0.0388		997.0207

5696 Stevens Creek Blvd. Hotel - AC by Marriott - Santa Clara County, Winter

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	lb/day										lb/day					
Off-Road	0.7716	7.2266	7.1128	0.0113		0.3950	0.3950		0.3669	0.3669		1,035.3926	1,035.3926	0.3016		1,042.9323
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.7716	7.2266	7.1128	0.0113		0.3950	0.3950		0.3669	0.3669		1,035.3926	1,035.3926	0.3016		1,042.9323

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	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
Worker	0.0666	0.0469	0.4587	1.3400e-003	0.1479	9.2000e-004	0.1488	0.0392	8.5000e-004	0.0401		133.2839	133.2839	3.3000e-003		133.3665
Total	0.0666	0.0469	0.4587	1.3400e-003	0.1479	9.2000e-004	0.1488	0.0392	8.5000e-004	0.0401		133.2839	133.2839	3.3000e-003		133.3665

5696 Stevens Creek Blvd. Hotel - AC by Marriott - Santa Clara County, Winter

3.6 Paving - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7716	7.2266	7.1128	0.0113		0.3950	0.3950		0.3669	0.3669	0.0000	1,035.3926	1,035.3926	0.3016		1,042.9323
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.7716	7.2266	7.1128	0.0113		0.3950	0.3950		0.3669	0.3669	0.0000	1,035.3926	1,035.3926	0.3016		1,042.9323

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	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
Worker	0.0666	0.0469	0.4587	1.3400e-003	0.1479	9.2000e-004	0.1488	0.0392	8.5000e-004	0.0401		133.2839	133.2839	3.3000e-003		133.3665
Total	0.0666	0.0469	0.4587	1.3400e-003	0.1479	9.2000e-004	0.1488	0.0392	8.5000e-004	0.0401		133.2839	133.2839	3.3000e-003		133.3665

5696 Stevens Creek Blvd. Hotel - AC by Marriott - Santa Clara County, Winter

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	lb/day										lb/day					
Archit. Coating	11.9012					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928
Total	12.1434	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	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
Worker	0.0407	0.0287	0.2803	8.2000e-004	0.0904	5.6000e-004	0.0909	0.0240	5.2000e-004	0.0245		81.4513	81.4513	2.0200e-003		81.5018
Total	0.0407	0.0287	0.2803	8.2000e-004	0.0904	5.6000e-004	0.0909	0.0240	5.2000e-004	0.0245		81.4513	81.4513	2.0200e-003		81.5018

5696 Stevens Creek Blvd. Hotel - AC by Marriott - Santa Clara County, Winter

3.7 Architectural Coating - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	11.9012					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109	0.0000	281.4481	281.4481	0.0218		281.9928
Total	12.1434	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109	0.0000	281.4481	281.4481	0.0218		281.9928

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	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
Worker	0.0407	0.0287	0.2803	8.2000e-004	0.0904	5.6000e-004	0.0909	0.0240	5.2000e-004	0.0245		81.4513	81.4513	2.0200e-003		81.5018
Total	0.0407	0.0287	0.2803	8.2000e-004	0.0904	5.6000e-004	0.0909	0.0240	5.2000e-004	0.0245		81.4513	81.4513	2.0200e-003		81.5018

4.0 Operational Detail - Mobile

5696 Stevens Creek Blvd. Hotel - AC by Marriott - Santa Clara County, Winter

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.9287	7.8312	21.9858	0.0617	5.5298	0.0636	5.5934	1.4762	0.0596	1.5358		6,212.2962	6,212.2962	0.2450		6,218.4210
Unmitigated	1.9287	7.8312	21.9858	0.0617	5.5298	0.0636	5.5934	1.4762	0.0596	1.5358		6,212.2962	6,212.2962	0.2450		6,218.4210

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Enclosed Parking with Elevator	0.00	0.00	0.00		
Hotel	1,372.56	1,375.92	999.60	2,507,453	2,507,453
Total	1,372.56	1,375.92	999.60	2,507,453	2,507,453

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
Enclosed Parking with Elevator	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Hotel	9.50	7.30	7.30	19.40	61.60	19.00	58	38	4

4.4 Fleet Mix

5696 Stevens Creek Blvd. Hotel - AC by Marriott - Santa Clara County, Winter

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Enclosed Parking with Elevator	0.604810	0.038204	0.185149	0.108513	0.015498	0.004981	0.012268	0.020156	0.002083	0.001571	0.005363	0.000620	0.000785
Hotel	0.604810	0.038204	0.185149	0.108513	0.015498	0.004981	0.012268	0.020156	0.002083	0.001571	0.005363	0.000620	0.000785

5.0 Energy Detail

Historical Energy Use: N

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	lb/day										lb/day					
NaturalGas Mitigated	0.1025	0.9313	0.7823	5.5900e-003		0.0708	0.0708		0.0708	0.0708		1,117.5919	1,117.5919	0.0214	0.0205	1,124.2332
NaturalGas Unmitigated	0.1025	0.9313	0.7823	5.5900e-003		0.0708	0.0708		0.0708	0.0708		1,117.5919	1,117.5919	0.0214	0.0205	1,124.2332

5696 Stevens Creek Blvd. Hotel - AC by Marriott - Santa Clara County, Winter

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	lb/day										lb/day					
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
Hotel	9499.53	0.1025	0.9313	0.7823	5.5900e-003		0.0708	0.0708		0.0708	0.0708		1,117.5919	1,117.5919	0.0214	0.0205	1,124.2332
Total		0.1025	0.9313	0.7823	5.5900e-003		0.0708	0.0708		0.0708	0.0708		1,117.5919	1,117.5919	0.0214	0.0205	1,124.2332

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	lb/day										lb/day					
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
Hotel	9.49953	0.1025	0.9313	0.7823	5.5900e-003		0.0708	0.0708		0.0708	0.0708		1,117.5919	1,117.5919	0.0214	0.0205	1,124.2332
Total		0.1025	0.9313	0.7823	5.5900e-003		0.0708	0.0708		0.0708	0.0708		1,117.5919	1,117.5919	0.0214	0.0205	1,124.2332

6.0 Area Detail

6.1 Mitigation Measures Area

5696 Stevens Creek Blvd. Hotel - AC by Marriott - Santa Clara County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.9155	2.5000e-004	0.0275	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		0.0587	0.0587	1.6000e-004		0.0626
Unmitigated	1.9155	2.5000e-004	0.0275	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		0.0587	0.0587	1.6000e-004		0.0626

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.2282					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.6846					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.5900e-003	2.5000e-004	0.0275	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		0.0587	0.0587	1.6000e-004		0.0626
Total	1.9155	2.5000e-004	0.0275	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		0.0587	0.0587	1.6000e-004		0.0626

5696 Stevens Creek Blvd. Hotel - AC by Marriott - Santa Clara County, Winter

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	lb/day										lb/day					
Architectural Coating	0.2282					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.6846					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.5900e-003	2.5000e-004	0.0275	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		0.0587	0.0587	1.6000e-004		0.0626
Total	1.9155	2.5000e-004	0.0275	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		0.0587	0.0587	1.6000e-004		0.0626

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

5696 Stevens Creek Blvd. Hotel - AC by Marriott - Santa Clara County, Winter

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
