

APPENDIX A

AIR QUALITY AND GHG MODELING RESULTS

Rocketship School - Bay Area AQMD Air District, Annual

Rocketship School
Bay Area AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Elementary School	600.00	Student	1.70	30,367.00	0
Parking Lot	49.00	Space	0.44	19,600.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	64
Climate Zone	4			Operational Year	2018
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	414.88	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

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Project Characteristics - CO2 Intensity adjusted based on PG&E progress towards RPS

Land Use - *

Construction Phase - Information provided by applicant

Grading - Applicant provided information

Demolition -

Vehicle Trips - Trip Rates based on Traffic Report for project

Energy Use - Adjusted for compliance with 2016 Title 24

Water Mitigation -

Mobile Land Use Mitigation -

Energy Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	154.00
tblConstructionPhase	NumDays	220.00	154.00
tblConstructionPhase	NumDays	20.00	44.00
tblConstructionPhase	NumDays	6.00	5.00
tblConstructionPhase	NumDays	10.00	2.00
tblConstructionPhase	NumDays	3.00	10.00
tblConstructionPhase	PhaseEndDate	10/31/2017	9/11/2018
tblConstructionPhase	PhaseEndDate	10/31/2017	8/28/2018
tblConstructionPhase	PhaseEndDate	10/31/2017	1/1/2018
tblConstructionPhase	PhaseEndDate	10/31/2017	1/22/2018
tblConstructionPhase	PhaseEndDate	10/31/2017	1/24/2018
tblConstructionPhase	PhaseEndDate	10/31/2017	1/15/2018
tblConstructionPhase	PhaseStartDate	11/1/2017	2/8/2018
tblConstructionPhase	PhaseStartDate	11/1/2017	1/25/2018
tblConstructionPhase	PhaseStartDate	11/1/2017	1/16/2018

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tblConstructionPhase	PhaseStartDate	11/1/2017	1/23/2018
tblConstructionPhase	PhaseStartDate	11/1/2017	1/2/2018
tblEnergyUse	T24E	1.63	1.50
tblEnergyUse	T24NG	17.60	16.72
tblGrading	AcresOfGrading	2.50	1.18
tblGrading	AcresOfGrading	15.00	0.00
tblGrading	MaterialExported	0.00	1,600.00
tblGrading	MaterialExported	0.00	95.00
tblLandUse	BuildingSpaceSquareFeet	50,162.02	30,367.00
tblLandUse	LandUseSquareFeet	50,162.02	30,367.00
tblLandUse	LotAcreage	1.15	1.70
tblProjectCharacteristics	CO2IntensityFactor	641.35	414.88
tblVehicleTrips	ST_TR	0.00	0.11
tblVehicleTrips	SU_TR	0.00	0.11
tblVehicleTrips	WD_TR	1.29	2.75

2.0 Emissions Summary

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	11-1-2017	1-31-2018	0.9808	0.9808
2	2-1-2018	4-30-2018	0.9212	0.9212
3	5-1-2018	7-31-2018	0.9629	0.9629
4	8-1-2018	9-30-2018	0.3153	0.3153
		Highest	0.9808	0.9808

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	0.1367	6.0000e-005	6.0500e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0116	0.0116	3.0000e-005	0.0000	0.0124
Energy	2.8900e-003	0.0263	0.0221	1.6000e-004		2.0000e-003	2.0000e-003		2.0000e-003	2.0000e-003	0.0000	62.7068	62.7068	2.9300e-003	1.0200e-003	63.0833
Mobile	0.4136	1.8690	4.6126	0.0127	0.9829	0.0172	1.0001	0.2639	0.0163	0.2802	0.0000	1,160.718 2	1,160.718 2	0.0512	0.0000	1,161.998 5
Waste						0.0000	0.0000		0.0000	0.0000	22.2275	0.0000	22.2275	1.3136	0.0000	55.0677
Water						0.0000	0.0000		0.0000	0.0000	0.4615	3.9447	4.4061	0.0477	1.1800e-003	5.9484
Total	0.5532	1.8954	4.6407	0.0129	0.9829	0.0193	1.0021	0.2639	0.0183	0.2822	22.6890	1,227.381 2	1,250.070 2	1.4155	2.2000e-003	1,286.110 3

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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	0.1367	6.0000e-005	6.0500e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0116	0.0116	3.0000e-005	0.0000	0.0124
Energy	2.8900e-003	0.0263	0.0221	1.6000e-004		2.0000e-003	2.0000e-003		2.0000e-003	2.0000e-003	0.0000	62.7068	62.7068	2.9300e-003	1.0200e-003	63.0833
Mobile	0.3721	1.5473	3.6818	9.3000e-003	0.7006	0.0128	0.7134	0.1882	0.0120	0.2002	0.0000	850.6824	850.6824	0.0412	0.0000	851.7117
Waste						0.0000	0.0000		0.0000	0.0000	22.2275	0.0000	22.2275	1.3136	0.0000	55.0677
Water						0.0000	0.0000		0.0000	0.0000	0.4615	2.9839	3.4453	0.0476	1.1600e-003	4.9818
Total	0.5117	1.5736	3.7099	9.4600e-003	0.7006	0.0148	0.7154	0.1882	0.0141	0.2022	22.6890	916.3847	939.0736	1.4053	2.1800e-003	974.8570

	ROG	NOx	CO	SO2	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	7.50	16.98	20.06	26.38	28.71	23.22	28.61	28.71	23.13	28.35	0.00	25.34	24.88	0.71	0.91	24.20

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	Architectural Coating	Architectural Coating	2/8/2018	9/11/2018	5	154	
2	Building Construction	Building Construction	1/25/2018	8/28/2018	5	154	
3	Demolition	Demolition	11/1/2017	1/1/2018	5	44	
4	Grading	Grading	1/16/2018	1/22/2018	5	5	
5	Paving	Paving	1/23/2018	1/24/2018	5	2	
6	Site Preparation	Site Preparation	1/2/2018	1/15/2018	5	10	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 1.18

Acres of Paving: 0.44

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 45,551; Non-Residential Outdoor: 15,184; Striped Parking Area: 1,176 (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	1	8.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Site Preparation	Graders	1	8.00	187	0.41
Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Paving	Paving Equipment	1	8.00	132	0.36
Site Preparation	Scrapers	1	8.00	367	0.48
Building Construction	Welders	3	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	4.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	21.00	8.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	5	13.00	0.00	114.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	200.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	12.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Architectural Coating - 2018

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	0.1624					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0230	0.1544	0.1428	2.3000e-004		0.0116	0.0116		0.0116	0.0116	0.0000	19.6601	19.6601	1.8700e-003	0.0000	19.7068
Total	0.1854	0.1544	0.1428	2.3000e-004		0.0116	0.0116		0.0116	0.0116	0.0000	19.6601	19.6601	1.8700e-003	0.0000	19.7068

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3.2 Architectural Coating - 2018

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	1.2400e-003	9.4000e-004	9.5200e-003	3.0000e-005	2.4300e-003	2.0000e-005	2.4500e-003	6.5000e-004	2.0000e-005	6.6000e-004	0.0000	2.2696	2.2696	7.0000e-005	0.0000	2.2713
Total	1.2400e-003	9.4000e-004	9.5200e-003	3.0000e-005	2.4300e-003	2.0000e-005	2.4500e-003	6.5000e-004	2.0000e-005	6.6000e-004	0.0000	2.2696	2.2696	7.0000e-005	0.0000	2.2713

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	0.1624					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0230	0.1544	0.1428	2.3000e-004		0.0116	0.0116		0.0116	0.0116	0.0000	19.6601	19.6601	1.8700e-003	0.0000	19.7068
Total	0.1854	0.1544	0.1428	2.3000e-004		0.0116	0.0116		0.0116	0.0116	0.0000	19.6601	19.6601	1.8700e-003	0.0000	19.7068

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3.2 Architectural Coating - 2018

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	1.2400e-003	9.4000e-004	9.5200e-003	3.0000e-005	2.4300e-003	2.0000e-005	2.4500e-003	6.5000e-004	2.0000e-005	6.6000e-004	0.0000	2.2696	2.2696	7.0000e-005	0.0000	2.2713
Total	1.2400e-003	9.4000e-004	9.5200e-003	3.0000e-005	2.4300e-003	2.0000e-005	2.4500e-003	6.5000e-004	2.0000e-005	6.6000e-004	0.0000	2.2696	2.2696	7.0000e-005	0.0000	2.2713

3.3 Building Construction - 2018

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	0.2243	1.5945	1.2103	1.9300e-003		0.0968	0.0968		0.0928	0.0928	0.0000	162.7424	162.7424	0.0351	0.0000	163.6188
Total	0.2243	1.5945	1.2103	1.9300e-003		0.0968	0.0968		0.0928	0.0928	0.0000	162.7424	162.7424	0.0351	0.0000	163.6188

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3.3 Building Construction - 2018

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	3.2400e-003	0.0825	0.0219	1.7000e-004	4.0400e-003	6.3000e-004	4.6700e-003	1.1700e-003	6.1000e-004	1.7700e-003	0.0000	16.3428	16.3428	9.4000e-004	0.0000	16.3663
Worker	6.5000e-003	4.9600e-003	0.0500	1.3000e-004	0.0128	9.0000e-005	0.0129	3.4000e-003	8.0000e-005	3.4800e-003	0.0000	11.9153	11.9153	3.5000e-004	0.0000	11.9241
Total	9.7400e-003	0.0875	0.0719	3.0000e-004	0.0168	7.2000e-004	0.0175	4.5700e-003	6.9000e-004	5.2500e-003	0.0000	28.2581	28.2581	1.2900e-003	0.0000	28.2904

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	0.2243	1.5945	1.2103	1.9300e-003		0.0968	0.0968		0.0928	0.0928	0.0000	162.7422	162.7422	0.0351	0.0000	163.6186
Total	0.2243	1.5945	1.2103	1.9300e-003		0.0968	0.0968		0.0928	0.0928	0.0000	162.7422	162.7422	0.0351	0.0000	163.6186

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3.3 Building Construction - 2018

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	3.2400e-003	0.0825	0.0219	1.7000e-004	4.0400e-003	6.3000e-004	4.6700e-003	1.1700e-003	6.1000e-004	1.7700e-003	0.0000	16.3428	16.3428	9.4000e-004	0.0000	16.3663
Worker	6.5000e-003	4.9600e-003	0.0500	1.3000e-004	0.0128	9.0000e-005	0.0129	3.4000e-003	8.0000e-005	3.4800e-003	0.0000	11.9153	11.9153	3.5000e-004	0.0000	11.9241
Total	9.7400e-003	0.0875	0.0719	3.0000e-004	0.0168	7.2000e-004	0.0175	4.5700e-003	6.9000e-004	5.2500e-003	0.0000	28.2581	28.2581	1.2900e-003	0.0000	28.2904

3.4 Demolition - 2017

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					0.0120	0.0000	0.0120	1.8200e-003	0.0000	1.8200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0594	0.5753	0.3345	5.2000e-004		0.0354	0.0354		0.0331	0.0331	0.0000	47.2286	47.2286	0.0120	0.0000	47.5272
Total	0.0594	0.5753	0.3345	5.2000e-004	0.0120	0.0354	0.0474	1.8200e-003	0.0331	0.0349	0.0000	47.2286	47.2286	0.0120	0.0000	47.5272

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3.4 Demolition - 2017

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	6.3000e-004	0.0199	3.8600e-003	5.0000e-005	9.6000e-004	1.1000e-004	1.0700e-003	2.6000e-004	1.1000e-004	3.7000e-004	0.0000	4.3945	4.3945	2.4000e-004	0.0000	4.4005
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	1.2600e-003	9.9000e-004	9.8800e-003	2.0000e-005	2.2100e-003	2.0000e-005	2.2200e-003	5.9000e-004	1.0000e-005	6.0000e-004	0.0000	2.1188	2.1188	7.0000e-005	0.0000	2.1205
Total	1.8900e-003	0.0209	0.0137	7.0000e-005	3.1700e-003	1.3000e-004	3.2900e-003	8.5000e-004	1.2000e-004	9.7000e-004	0.0000	6.5133	6.5133	3.1000e-004	0.0000	6.5210

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					0.0120	0.0000	0.0120	1.8200e-003	0.0000	1.8200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0594	0.5753	0.3345	5.2000e-004		0.0354	0.0354		0.0331	0.0331	0.0000	47.2285	47.2285	0.0120	0.0000	47.5272
Total	0.0594	0.5753	0.3345	5.2000e-004	0.0120	0.0354	0.0474	1.8200e-003	0.0331	0.0349	0.0000	47.2285	47.2285	0.0120	0.0000	47.5272

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3.4 Demolition - 2017

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	6.3000e-004	0.0199	3.8600e-003	5.0000e-005	9.6000e-004	1.1000e-004	1.0700e-003	2.6000e-004	1.1000e-004	3.7000e-004	0.0000	4.3945	4.3945	2.4000e-004	0.0000	4.4005
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	1.2600e-003	9.9000e-004	9.8800e-003	2.0000e-005	2.2100e-003	2.0000e-005	2.2200e-003	5.9000e-004	1.0000e-005	6.0000e-004	0.0000	2.1188	2.1188	7.0000e-005	0.0000	2.1205
Total	1.8900e-003	0.0209	0.0137	7.0000e-005	3.1700e-003	1.3000e-004	3.2900e-003	8.5000e-004	1.2000e-004	9.7000e-004	0.0000	6.5133	6.5133	3.1000e-004	0.0000	6.5210

3.4 Demolition - 2018

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					2.8000e-004	0.0000	2.8000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.2400e-003	0.0122	7.5600e-003	1.0000e-005		7.2000e-004	7.2000e-004		6.7000e-004	6.7000e-004	0.0000	1.0846	1.0846	2.7000e-004	0.0000	1.0915
Total	1.2400e-003	0.0122	7.5600e-003	1.0000e-005	2.8000e-004	7.2000e-004	1.0000e-003	4.0000e-005	6.7000e-004	7.1000e-004	0.0000	1.0846	1.0846	2.7000e-004	0.0000	1.0915

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3.4 Demolition - 2018

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	1.0000e-005	4.3000e-004	8.0000e-005	0.0000	7.3000e-004	0.0000	7.3000e-004	1.8000e-004	0.0000	1.8000e-004	0.0000	0.1014	0.1014	1.0000e-005	0.0000	0.1015
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	3.0000e-005	2.0000e-005	2.0000e-004	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0479	0.0479	0.0000	0.0000	0.0479
Total	4.0000e-005	4.5000e-004	2.8000e-004	0.0000	7.8000e-004	0.0000	7.8000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.1493	0.1493	1.0000e-005	0.0000	0.1494

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					2.8000e-004	0.0000	2.8000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.2400e-003	0.0122	7.5600e-003	1.0000e-005		7.2000e-004	7.2000e-004		6.7000e-004	6.7000e-004	0.0000	1.0846	1.0846	2.7000e-004	0.0000	1.0915
Total	1.2400e-003	0.0122	7.5600e-003	1.0000e-005	2.8000e-004	7.2000e-004	1.0000e-003	4.0000e-005	6.7000e-004	7.1000e-004	0.0000	1.0846	1.0846	2.7000e-004	0.0000	1.0915

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3.4 Demolition - 2018

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	1.0000e-005	4.3000e-004	8.0000e-005	0.0000	7.3000e-004	0.0000	7.3000e-004	1.8000e-004	0.0000	1.8000e-004	0.0000	0.1014	0.1014	1.0000e-005	0.0000	0.1015
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	3.0000e-005	2.0000e-005	2.0000e-004	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0479	0.0479	0.0000	0.0000	0.0479
Total	4.0000e-005	4.5000e-004	2.8000e-004	0.0000	7.8000e-004	0.0000	7.8000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.1493	0.1493	1.0000e-005	0.0000	0.1494

3.5 Grading - 2018

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					0.0158	0.0000	0.0158	8.3600e-003	0.0000	8.3600e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.3800e-003	0.0607	0.0260	5.0000e-005		2.9200e-003	2.9200e-003		2.6900e-003	2.6900e-003	0.0000	4.7116	4.7116	1.4700e-003	0.0000	4.7483
Total	5.3800e-003	0.0607	0.0260	5.0000e-005	0.0158	2.9200e-003	0.0187	8.3600e-003	2.6900e-003	0.0111	0.0000	4.7116	4.7116	1.4700e-003	0.0000	4.7483

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3.5 Grading - 2018

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	9.6000e-004	0.0330	6.2900e-003	8.0000e-005	1.6900e-003	1.3000e-004	1.8200e-003	4.6000e-004	1.3000e-004	5.9000e-004	0.0000	7.8254	7.8254	4.1000e-004	0.0000	7.8357
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	1.0000e-004	8.0000e-005	7.7000e-004	0.0000	2.0000e-004	0.0000	2.0000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1842	0.1842	1.0000e-005	0.0000	0.1844
Total	1.0600e-003	0.0331	7.0600e-003	8.0000e-005	1.8900e-003	1.3000e-004	2.0200e-003	5.1000e-004	1.3000e-004	6.4000e-004	0.0000	8.0096	8.0096	4.2000e-004	0.0000	8.0201

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					0.0158	0.0000	0.0158	8.3600e-003	0.0000	8.3600e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.3800e-003	0.0607	0.0260	5.0000e-005		2.9200e-003	2.9200e-003		2.6900e-003	2.6900e-003	0.0000	4.7116	4.7116	1.4700e-003	0.0000	4.7483
Total	5.3800e-003	0.0607	0.0260	5.0000e-005	0.0158	2.9200e-003	0.0187	8.3600e-003	2.6900e-003	0.0111	0.0000	4.7116	4.7116	1.4700e-003	0.0000	4.7483

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3.5 Grading - 2018

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	9.6000e-004	0.0330	6.2900e-003	8.0000e-005	1.6900e-003	1.3000e-004	1.8200e-003	4.6000e-004	1.3000e-004	5.9000e-004	0.0000	7.8254	7.8254	4.1000e-004	0.0000	7.8357
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	1.0000e-004	8.0000e-005	7.7000e-004	0.0000	2.0000e-004	0.0000	2.0000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1842	0.1842	1.0000e-005	0.0000	0.1844
Total	1.0600e-003	0.0331	7.0600e-003	8.0000e-005	1.8900e-003	1.3000e-004	2.0200e-003	5.1000e-004	1.3000e-004	6.4000e-004	0.0000	8.0096	8.0096	4.2000e-004	0.0000	8.0201

3.6 Paving - 2018

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	1.4000e-003	0.0143	0.0120	2.0000e-005		8.5000e-004	8.5000e-004		7.8000e-004	7.8000e-004	0.0000	1.6096	1.6096	4.9000e-004	0.0000	1.6219
Paving	5.8000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	1.9800e-003	0.0143	0.0120	2.0000e-005		8.5000e-004	8.5000e-004		7.8000e-004	7.8000e-004	0.0000	1.6096	1.6096	4.9000e-004	0.0000	1.6219

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3.6 Paving - 2018

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	6.0000e-005	5.0000e-005	4.6000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1105	0.1105	0.0000	0.0000	0.1106
Total	6.0000e-005	5.0000e-005	4.6000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1105	0.1105	0.0000	0.0000	0.1106

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	1.4000e-003	0.0143	0.0120	2.0000e-005		8.5000e-004	8.5000e-004		7.8000e-004	7.8000e-004	0.0000	1.6096	1.6096	4.9000e-004	0.0000	1.6219
Paving	5.8000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	1.9800e-003	0.0143	0.0120	2.0000e-005		8.5000e-004	8.5000e-004		7.8000e-004	7.8000e-004	0.0000	1.6096	1.6096	4.9000e-004	0.0000	1.6219

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3.6 Paving - 2018

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	6.0000e-005	5.0000e-005	4.6000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1105	0.1105	0.0000	0.0000	0.1106
Total	6.0000e-005	5.0000e-005	4.6000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1105	0.1105	0.0000	0.0000	0.1106

3.7 Site Preparation - 2018

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					1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.5000e-003	0.1181	0.0637	1.2000e-004		4.7700e-003	4.7700e-003		4.3900e-003	4.3900e-003	0.0000	11.1965	11.1965	3.4900e-003	0.0000	11.2837
Total	9.5000e-003	0.1181	0.0637	1.2000e-004	1.0000e-005	4.7700e-003	4.7800e-003	0.0000	4.3900e-003	4.3900e-003	0.0000	11.1965	11.1965	3.4900e-003	0.0000	11.2837

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3.7 Site Preparation - 2018

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	6.0000e-005	1.9800e-003	3.8000e-004	0.0000	1.0000e-004	1.0000e-005	1.1000e-004	3.0000e-005	1.0000e-005	4.0000e-005	0.0000	0.4695	0.4695	2.0000e-005	0.0000	0.4701
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	1.6000e-004	1.2000e-004	1.2400e-003	0.0000	3.2000e-004	0.0000	3.2000e-004	8.0000e-005	0.0000	9.0000e-005	0.0000	0.2948	0.2948	1.0000e-005	0.0000	0.2950
Total	2.2000e-004	2.1000e-003	1.6200e-003	0.0000	4.2000e-004	1.0000e-005	4.3000e-004	1.1000e-004	1.0000e-005	1.3000e-004	0.0000	0.7643	0.7643	3.0000e-005	0.0000	0.7651

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					1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.5000e-003	0.1181	0.0637	1.2000e-004		4.7700e-003	4.7700e-003		4.3900e-003	4.3900e-003	0.0000	11.1965	11.1965	3.4900e-003	0.0000	11.2837
Total	9.5000e-003	0.1181	0.0637	1.2000e-004	1.0000e-005	4.7700e-003	4.7800e-003	0.0000	4.3900e-003	4.3900e-003	0.0000	11.1965	11.1965	3.4900e-003	0.0000	11.2837

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3.7 Site Preparation - 2018

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	6.0000e-005	1.9800e-003	3.8000e-004	0.0000	1.0000e-004	1.0000e-005	1.1000e-004	3.0000e-005	1.0000e-005	4.0000e-005	0.0000	0.4695	0.4695	2.0000e-005	0.0000	0.4701
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	1.6000e-004	1.2000e-004	1.2400e-003	0.0000	3.2000e-004	0.0000	3.2000e-004	8.0000e-005	0.0000	9.0000e-005	0.0000	0.2948	0.2948	1.0000e-005	0.0000	0.2950
Total	2.2000e-004	2.1000e-003	1.6200e-003	0.0000	4.2000e-004	1.0000e-005	4.3000e-004	1.1000e-004	1.0000e-005	1.3000e-004	0.0000	0.7643	0.7643	3.0000e-005	0.0000	0.7651

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

- Increase Density
- Increase Diversity
- Increase Transit Accessibility
- Improve Pedestrian Network

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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
Category	tons/yr										MT/yr					
Mitigated	0.3721	1.5473	3.6818	9.3000e-003	0.7006	0.0128	0.7134	0.1882	0.0120	0.2002	0.0000	850.6824	850.6824	0.0412	0.0000	851.7117
Unmitigated	0.4136	1.8690	4.6126	0.0127	0.9829	0.0172	1.0001	0.2639	0.0163	0.2802	0.0000	1,160.7182	1,160.7182	0.0512	0.0000	1,161.9985

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Elementary School	1,650.00	64.20	64.20	2,639,123	1,881,299
Parking Lot	0.00	0.00	0.00		
Total	1,650.00	64.20	64.20	2,639,123	1,881,299

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
Elementary School	9.50	7.30	7.30	65.00	30.00	5.00	63	25	12
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Elementary School	0.567674	0.042970	0.194260	0.117237	0.019396	0.005375	0.016640	0.023570	0.002459	0.002683	0.006005	0.000868	0.000864
Parking Lot	0.567674	0.042970	0.194260	0.117237	0.019396	0.005375	0.016640	0.023570	0.002459	0.002683	0.006005	0.000868	0.000864

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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	tons/yr										MT/yr					
Electricity Mitigated							0.0000	0.0000		0.0000	0.0000	34.1050	34.1050	2.3800e-003	4.9000e-004	34.3116
Electricity Unmitigated							0.0000	0.0000		0.0000	0.0000	34.1050	34.1050	2.3800e-003	4.9000e-004	34.3116
NaturalGas Mitigated	2.8900e-003	0.0263	0.0221	1.6000e-004		2.0000e-003	2.0000e-003		2.0000e-003	2.0000e-003	0.0000	28.6018	28.6018	5.5000e-004	5.2000e-004	28.7718
NaturalGas Unmitigated	2.8900e-003	0.0263	0.0221	1.6000e-004		2.0000e-003	2.0000e-003		2.0000e-003	2.0000e-003	0.0000	28.6018	28.6018	5.5000e-004	5.2000e-004	28.7718

Rocketship School - Bay Area AQMD Air District, Annual

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					
Elementary School	535978	2.8900e-003	0.0263	0.0221	1.6000e-004		2.0000e-003	2.0000e-003		2.0000e-003	2.0000e-003	0.0000	28.6018	28.6018	5.5000e-004	5.2000e-004	28.7718
Parking Lot	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
Total		2.8900e-003	0.0263	0.0221	1.6000e-004		2.0000e-003	2.0000e-003		2.0000e-003	2.0000e-003	0.0000	28.6018	28.6018	5.5000e-004	5.2000e-004	28.7718

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					
Elementary School	535978	2.8900e-003	0.0263	0.0221	1.6000e-004		2.0000e-003	2.0000e-003		2.0000e-003	2.0000e-003	0.0000	28.6018	28.6018	5.5000e-004	5.2000e-004	28.7718
Parking Lot	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
Total		2.8900e-003	0.0263	0.0221	1.6000e-004		2.0000e-003	2.0000e-003		2.0000e-003	2.0000e-003	0.0000	28.6018	28.6018	5.5000e-004	5.2000e-004	28.7718

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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			
Elementary School	163982	30.8592	2.1600e-003	4.5000e-004	31.0461
Parking Lot	17248	3.2458	2.3000e-004	5.0000e-005	3.2655
Total		34.1050	2.3900e-003	5.0000e-004	34.3116

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Elementary School	163982	30.8592	2.1600e-003	4.5000e-004	31.0461
Parking Lot	17248	3.2458	2.3000e-004	5.0000e-005	3.2655
Total		34.1050	2.3900e-003	5.0000e-004	34.3116

6.0 Area Detail

6.1 Mitigation Measures Area

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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
Category	tons/yr										MT/yr					
Mitigated	0.1367	6.0000e-005	6.0500e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0116	0.0116	3.0000e-005	0.0000	0.0124
Unmitigated	0.1367	6.0000e-005	6.0500e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0116	0.0116	3.0000e-005	0.0000	0.0124

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	0.0162					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1199					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.8000e-004	6.0000e-005	6.0500e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0116	0.0116	3.0000e-005	0.0000	0.0124
Total	0.1367	6.0000e-005	6.0500e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0116	0.0116	3.0000e-005	0.0000	0.0124

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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	0.0162					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1199					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.8000e-004	6.0000e-005	6.0500e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0116	0.0116	3.0000e-005	0.0000	0.0124
Total	0.1367	6.0000e-005	6.0500e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0116	0.0116	3.0000e-005	0.0000	0.0124

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

Rocketship School - Bay Area AQMD Air District, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	3.4453	0.0476	1.1600e-003	4.9818
Unmitigated	4.4061	0.0477	1.1800e-003	5.9484

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Elementary School	1.45454 / 3.74026	4.4061	0.0477	1.1800e-003	5.9484
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		4.4061	0.0477	1.1800e-003	5.9484

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7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Elementary School	1.45454 / 2.28156	3.4453	0.0476	1.1600e-003	4.9818
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		3.4453	0.0476	1.1600e-003	4.9818

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	22.2275	1.3136	0.0000	55.0677
Unmitigated	22.2275	1.3136	0.0000	55.0677

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8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Elementary School	109.5	22.2275	1.3136	0.0000	55.0677
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		22.2275	1.3136	0.0000	55.0677

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Elementary School	109.5	22.2275	1.3136	0.0000	55.0677
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		22.2275	1.3136	0.0000	55.0677

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

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
----------------	--------	----------------	-----------------	---------------	-----------

User Defined Equipment

Equipment Type	Number
----------------	--------

11.0 Vegetation

Rocketship School - Bay Area AQMD Air District, Summer

Rocketship School
Bay Area AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Elementary School	600.00	Student	1.70	30,367.00	0
Parking Lot	49.00	Space	0.44	19,600.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	64
Climate Zone	4			Operational Year	2018
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	414.88	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Rocketship School - Bay Area AQMD Air District, Summer

Project Characteristics - CO2 Intensity adjusted based on PG&E progress towards RPS

Land Use - *

Construction Phase - Information provided by applicant

Grading - Applicant provided information

Demolition -

Vehicle Trips - Trip Rates based on Traffic Report for project

Energy Use - Adjusted for compliance with 2016 Title 24

Water Mitigation -

Mobile Land Use Mitigation -

Energy Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	154.00
tblConstructionPhase	NumDays	220.00	154.00
tblConstructionPhase	NumDays	20.00	44.00
tblConstructionPhase	NumDays	6.00	5.00
tblConstructionPhase	NumDays	10.00	2.00
tblConstructionPhase	NumDays	3.00	10.00
tblConstructionPhase	PhaseEndDate	10/31/2017	9/11/2018
tblConstructionPhase	PhaseEndDate	10/31/2017	8/28/2018
tblConstructionPhase	PhaseEndDate	10/31/2017	1/1/2018
tblConstructionPhase	PhaseEndDate	10/31/2017	1/22/2018
tblConstructionPhase	PhaseEndDate	10/31/2017	1/24/2018
tblConstructionPhase	PhaseEndDate	10/31/2017	1/15/2018
tblConstructionPhase	PhaseStartDate	11/1/2017	2/8/2018
tblConstructionPhase	PhaseStartDate	11/1/2017	1/25/2018
tblConstructionPhase	PhaseStartDate	11/1/2017	1/16/2018

Rocketship School - Bay Area AQMD Air District, Summer

tblConstructionPhase	PhaseStartDate	11/1/2017	1/23/2018
tblConstructionPhase	PhaseStartDate	11/1/2017	1/2/2018
tblEnergyUse	T24E	1.63	1.50
tblEnergyUse	T24NG	17.60	16.72
tblGrading	AcresOfGrading	2.50	1.18
tblGrading	AcresOfGrading	15.00	0.00
tblGrading	MaterialExported	0.00	1,600.00
tblGrading	MaterialExported	0.00	95.00
tblLandUse	BuildingSpaceSquareFeet	50,162.02	30,367.00
tblLandUse	LandUseSquareFeet	50,162.02	30,367.00
tblLandUse	LotAcreage	1.15	1.70
tblProjectCharacteristics	CO2IntensityFactor	641.35	414.88
tblVehicleTrips	ST_TR	0.00	0.11
tblVehicleTrips	SU_TR	0.00	0.11
tblVehicleTrips	WD_TR	1.29	2.75

2.0 Emissions Summary

Rocketship School - Bay Area AQMD Air District, Summer

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	0.7522	6.3000e-004	0.0672	0.0000		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004		0.1420	0.1420	3.9000e-004		0.1518
Energy	0.0158	0.1440	0.1209	8.6000e-004		0.0109	0.0109		0.0109	0.0109		172.7567	172.7567	3.3100e-003	3.1700e-003	173.7833
Mobile	3.5602	13.6434	35.9289	0.1019	7.7343	0.1302	7.8644	2.0703	0.1229	2.1932		10,269.3216	10,269.3216	0.4300		10,280.0713
Total	4.3282	13.7880	36.1171	0.1027	7.7343	0.1414	7.8756	2.0703	0.1341	2.2044		10,442.2203	10,442.2203	0.4337	3.1700e-003	10,454.0064

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	0.7522	6.3000e-004	0.0672	0.0000		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004		0.1420	0.1420	3.9000e-004		0.1518
Energy	0.0158	0.1440	0.1209	8.6000e-004		0.0109	0.0109		0.0109	0.0109		172.7567	172.7567	3.3100e-003	3.1700e-003	173.7833
Mobile	3.2389	11.3497	27.9981	0.0746	5.5134	0.0962	5.6096	1.4758	0.0908	1.5666		7,521.7832	7,521.7832	0.3415		7,530.3211
Total	4.0070	11.4943	28.1862	0.0755	5.5134	0.1074	5.6208	1.4758	0.1020	1.5778		7,694.6819	7,694.6819	0.3452	3.1700e-003	7,704.2561

Rocketship School - Bay Area AQMD Air District, Summer

	ROG	NOx	CO	SO2	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	7.42	16.64	21.96	26.54	28.71	24.02	28.63	28.71	23.93	28.42	0.00	26.31	26.31	20.40	0.00	26.30

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Architectural Coating	Architectural Coating	2/8/2018	9/11/2018	5	154	
2	Building Construction	Building Construction	1/25/2018	8/28/2018	5	154	
3	Demolition	Demolition	11/1/2017	1/1/2018	5	44	
4	Grading	Grading	1/16/2018	1/22/2018	5	5	
5	Paving	Paving	1/23/2018	1/24/2018	5	2	
6	Site Preparation	Site Preparation	1/2/2018	1/15/2018	5	10	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 1.18

Acres of Paving: 0.44

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 45,551; Non-Residential Outdoor: 15,184; Striped Parking Area: 1,176 (Architectural Coating – sqft)

OffRoad Equipment

Rocketship School - Bay Area AQMD Air District, Summer

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	1	8.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Site Preparation	Graders	1	8.00	187	0.41
Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Paving	Paving Equipment	1	8.00	132	0.36
Site Preparation	Scrapers	1	8.00	367	0.48
Building Construction	Welders	3	8.00	46	0.45

Trips and VMT

Rocketship School - Bay Area AQMD Air District, Summer

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	4.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	21.00	8.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	5	13.00	0.00	114.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	200.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	12.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Architectural Coating - 2018

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	2.1096					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.1171
Total	2.4082	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.1171

Rocketship School - Bay Area AQMD Air District, Summer

3.2 Architectural Coating - 2018

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	0.0169	0.0109	0.1340	3.5000e-004	0.0329	2.2000e-004	0.0331	8.7200e-003	2.0000e-004	8.9200e-003		34.9426	34.9426	1.0200e-003		34.9681
Total	0.0169	0.0109	0.1340	3.5000e-004	0.0329	2.2000e-004	0.0331	8.7200e-003	2.0000e-004	8.9200e-003		34.9426	34.9426	1.0200e-003		34.9681

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	2.1096					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267		282.1171
Total	2.4082	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267		282.1171

Rocketship School - Bay Area AQMD Air District, Summer

3.2 Architectural Coating - 2018

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	0.0169	0.0109	0.1340	3.5000e-004	0.0329	2.2000e-004	0.0331	8.7200e-003	2.0000e-004	8.9200e-003		34.9426	34.9426	1.0200e-003		34.9681
Total	0.0169	0.0109	0.1340	3.5000e-004	0.0329	2.2000e-004	0.0331	8.7200e-003	2.0000e-004	8.9200e-003		34.9426	34.9426	1.0200e-003		34.9681

3.3 Building Construction - 2018

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	2.9127	20.7077	15.7183	0.0250		1.2575	1.2575		1.2051	1.2051		2,329.7759	2,329.7759	0.5019		2,342.3232
Total	2.9127	20.7077	15.7183	0.0250		1.2575	1.2575		1.2051	1.2051		2,329.7759	2,329.7759	0.5019		2,342.3232

Rocketship School - Bay Area AQMD Air District, Summer

3.3 Building Construction - 2018

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	0.0413	1.0563	0.2676	2.2400e-003	0.0542	8.1700e-003	0.0623	0.0156	7.8200e-003	0.0234		236.3982	236.3982	0.0130		236.7229
Worker	0.0885	0.0571	0.7036	1.8400e-003	0.1725	1.1600e-003	0.1737	0.0458	1.0700e-003	0.0468		183.4484	183.4484	5.3600e-003		183.5824
Total	0.1298	1.1135	0.9711	4.0800e-003	0.2267	9.3300e-003	0.2360	0.0614	8.8900e-003	0.0702		419.8466	419.8466	0.0184		420.3052

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	2.9127	20.7077	15.7183	0.0250		1.2575	1.2575		1.2051	1.2051	0.0000	2,329.7759	2,329.7759	0.5019		2,342.3232
Total	2.9127	20.7077	15.7183	0.0250		1.2575	1.2575		1.2051	1.2051	0.0000	2,329.7759	2,329.7759	0.5019		2,342.3232

Rocketship School - Bay Area AQMD Air District, Summer

3.3 Building Construction - 2018

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	0.0413	1.0563	0.2676	2.2400e-003	0.0542	8.1700e-003	0.0623	0.0156	7.8200e-003	0.0234		236.3982	236.3982	0.0130		236.7229
Worker	0.0885	0.0571	0.7036	1.8400e-003	0.1725	1.1600e-003	0.1737	0.0458	1.0700e-003	0.0468		183.4484	183.4484	5.3600e-003		183.5824
Total	0.1298	1.1135	0.9711	4.0800e-003	0.2267	9.3300e-003	0.2360	0.0614	8.8900e-003	0.0702		419.8466	419.8466	0.0184		420.3052

3.4 Demolition - 2017

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					0.5593	0.0000	0.5593	0.0847	0.0000	0.0847			0.0000			0.0000
Off-Road	2.7625	26.7594	15.5573	0.0241		1.6477	1.6477		1.5404	1.5404		2,421.4229	2,421.4229	0.6125		2,436.7347
Total	2.7625	26.7594	15.5573	0.0241	0.5593	1.6477	2.2069	0.0847	1.5404	1.6251		2,421.4229	2,421.4229	0.6125		2,436.7347

Rocketship School - Bay Area AQMD Air District, Summer

3.4 Demolition - 2017

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	0.0288	0.9054	0.1734	2.1300e-003	0.0461	5.1700e-003	0.0512	0.0126	4.9400e-003	0.0175		226.7841	226.7841	0.0120		227.0828
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	0.0615	0.0407	0.4958	1.1700e-003	0.1068	7.4000e-004	0.1075	0.0283	6.9000e-004	0.0290		116.8124	116.8124	3.7900e-003		116.9070
Total	0.0903	0.9461	0.6692	3.3000e-003	0.1529	5.9100e-003	0.1588	0.0409	5.6300e-003	0.0466		343.5965	343.5965	0.0157		343.9899

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					0.5593	0.0000	0.5593	0.0847	0.0000	0.0847			0.0000			0.0000
Off-Road	2.7625	26.7594	15.5573	0.0241		1.6477	1.6477		1.5404	1.5404	0.0000	2,421.4229	2,421.4229	0.6125		2,436.7347
Total	2.7625	26.7594	15.5573	0.0241	0.5593	1.6477	2.2069	0.0847	1.5404	1.6251	0.0000	2,421.4229	2,421.4229	0.6125		2,436.7347

Rocketship School - Bay Area AQMD Air District, Summer

3.4 Demolition - 2017

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	0.0288	0.9054	0.1734	2.1300e-003	0.0461	5.1700e-003	0.0512	0.0126	4.9400e-003	0.0175		226.7841	226.7841	0.0120		227.0828
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	0.0615	0.0407	0.4958	1.1700e-003	0.1068	7.4000e-004	0.1075	0.0283	6.9000e-004	0.0290		116.8124	116.8124	3.7900e-003		116.9070
Total	0.0903	0.9461	0.6692	3.3000e-003	0.1529	5.9100e-003	0.1588	0.0409	5.6300e-003	0.0466		343.5965	343.5965	0.0157		343.9899

3.4 Demolition - 2018

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					0.5593	0.0000	0.5593	0.0847	0.0000	0.0847			0.0000			0.0000
Off-Road	2.4838	24.3641	15.1107	0.0241		1.4365	1.4365		1.3429	1.3429		2,391.1659	2,391.1659	0.6058		2,406.3105
Total	2.4838	24.3641	15.1107	0.0241	0.5593	1.4365	1.9957	0.0847	1.3429	1.4276		2,391.1659	2,391.1659	0.6058		2,406.3105

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3.4 Demolition - 2018

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	0.0245	0.8364	0.1572	2.1100e-003	1.5182	3.3600e-003	1.5216	0.3740	3.2200e-003	0.3772		225.0196	225.0196	0.0116		225.3086
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	0.0548	0.0354	0.4355	1.1400e-003	0.1068	7.2000e-004	0.1075	0.0283	6.6000e-004	0.0290		113.5633	113.5633	3.3200e-003		113.6462
Total	0.0793	0.8717	0.5927	3.2500e-003	1.6250	4.0800e-003	1.6291	0.4023	3.8800e-003	0.4062		338.5829	338.5829	0.0149		338.9548

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					0.5593	0.0000	0.5593	0.0847	0.0000	0.0847			0.0000			0.0000
Off-Road	2.4838	24.3641	15.1107	0.0241		1.4365	1.4365		1.3429	1.3429	0.0000	2,391.1659	2,391.1659	0.6058		2,406.3105
Total	2.4838	24.3641	15.1107	0.0241	0.5593	1.4365	1.9957	0.0847	1.3429	1.4276	0.0000	2,391.1659	2,391.1659	0.6058		2,406.3105

Rocketship School - Bay Area AQMD Air District, Summer

3.4 Demolition - 2018

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	0.0245	0.8364	0.1572	2.1100e-003	1.5182	3.3600e-003	1.5216	0.3740	3.2200e-003	0.3772		225.0196	225.0196	0.0116		225.3086
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	0.0548	0.0354	0.4355	1.1400e-003	0.1068	7.2000e-004	0.1075	0.0283	6.6000e-004	0.0290		113.5633	113.5633	3.3200e-003		113.6462
Total	0.0793	0.8717	0.5927	3.2500e-003	1.6250	4.0800e-003	1.6291	0.4023	3.8800e-003	0.4062		338.5829	338.5829	0.0149		338.9548

3.5 Grading - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.3086	0.0000	6.3086	3.3427	0.0000	3.3427			0.0000			0.0000
Off-Road	2.1515	24.2895	10.3804	0.0206		1.1683	1.1683		1.0748	1.0748		2,077.4666	2,077.4666	0.6467		2,093.6352
Total	2.1515	24.2895	10.3804	0.0206	6.3086	1.1683	7.4769	3.3427	1.0748	4.4176		2,077.4666	2,077.4666	0.6467		2,093.6352

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3.5 Grading - 2018

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	0.3789	12.9123	2.4272	0.0326	0.6988	0.0519	0.7507	0.1915	0.0497	0.2412		3,473.9869	3,473.9869	0.1784		3,478.4477
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	0.0421	0.0272	0.3350	8.8000e-004	0.0822	5.5000e-004	0.0827	0.0218	5.1000e-004	0.0223		87.3564	87.3564	2.5500e-003		87.4202
Total	0.4210	12.9395	2.7622	0.0334	0.7809	0.0525	0.8334	0.2133	0.0502	0.2635		3,561.3433	3,561.3433	0.1810		3,565.8679

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.3086	0.0000	6.3086	3.3427	0.0000	3.3427			0.0000			0.0000
Off-Road	2.1515	24.2895	10.3804	0.0206		1.1683	1.1683		1.0748	1.0748	0.0000	2,077.4666	2,077.4666	0.6467		2,093.6352
Total	2.1515	24.2895	10.3804	0.0206	6.3086	1.1683	7.4769	3.3427	1.0748	4.4176	0.0000	2,077.4666	2,077.4666	0.6467		2,093.6352

Rocketship School - Bay Area AQMD Air District, Summer

3.5 Grading - 2018

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	0.3789	12.9123	2.4272	0.0326	0.6988	0.0519	0.7507	0.1915	0.0497	0.2412		3,473.9869	3,473.9869	0.1784		3,478.4477
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	0.0421	0.0272	0.3350	8.8000e-004	0.0822	5.5000e-004	0.0827	0.0218	5.1000e-004	0.0223		87.3564	87.3564	2.5500e-003		87.4202
Total	0.4210	12.9395	2.7622	0.0334	0.7809	0.0525	0.8334	0.2133	0.0502	0.2635		3,561.3433	3,561.3433	0.1810		3,565.8679

3.6 Paving - 2018

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	1.4046	14.2518	11.9787	0.0178		0.8505	0.8505		0.7836	0.7836		1,774.2430	1,774.2430	0.5419		1,787.7896
Paving	0.5764					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.9810	14.2518	11.9787	0.0178		0.8505	0.8505		0.7836	0.7836		1,774.2430	1,774.2430	0.5419		1,787.7896

Rocketship School - Bay Area AQMD Air District, Summer

3.6 Paving - 2018

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	0.0632	0.0408	0.5025	1.3200e-003	0.1232	8.3000e-004	0.1241	0.0327	7.7000e-004	0.0335		131.0346	131.0346	3.8300e-003		131.1303
Total	0.0632	0.0408	0.5025	1.3200e-003	0.1232	8.3000e-004	0.1241	0.0327	7.7000e-004	0.0335		131.0346	131.0346	3.8300e-003		131.1303

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	1.4046	14.2518	11.9787	0.0178		0.8505	0.8505		0.7836	0.7836	0.0000	1,774.2430	1,774.2430	0.5419		1,787.7896
Paving	0.5764					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.9810	14.2518	11.9787	0.0178		0.8505	0.8505		0.7836	0.7836	0.0000	1,774.2430	1,774.2430	0.5419		1,787.7896

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3.6 Paving - 2018

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	0.0632	0.0408	0.5025	1.3200e-003	0.1232	8.3000e-004	0.1241	0.0327	7.7000e-004	0.0335		131.0346	131.0346	3.8300e-003		131.1303
Total	0.0632	0.0408	0.5025	1.3200e-003	0.1232	8.3000e-004	0.1241	0.0327	7.7000e-004	0.0335		131.0346	131.0346	3.8300e-003		131.1303

3.7 Site Preparation - 2018

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					1.0700e-003	0.0000	1.0700e-003	1.6000e-004	0.0000	1.6000e-004			0.0000			0.0000
Off-Road	1.8995	23.6201	12.7461	0.0245		0.9540	0.9540		0.8777	0.8777		2,468.4131	2,468.4131	0.7685		2,487.6244
Total	1.8995	23.6201	12.7461	0.0245	1.0700e-003	0.9540	0.9551	1.6000e-004	0.8777	0.8778		2,468.4131	2,468.4131	0.7685		2,487.6244

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3.7 Site Preparation - 2018

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	0.0114	0.3874	0.0728	9.8000e-004	0.0210	1.5600e-003	0.0225	5.7400e-003	1.4900e-003	7.2300e-003		104.2196	104.2196	5.3500e-003		104.3534
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	0.0337	0.0218	0.2680	7.0000e-004	0.0657	4.4000e-004	0.0662	0.0174	4.1000e-004	0.0178		69.8851	69.8851	2.0400e-003		69.9361
Total	0.0451	0.4091	0.3408	1.6800e-003	0.0867	2.0000e-003	0.0887	0.0232	1.9000e-003	0.0251		174.1047	174.1047	7.3900e-003		174.2896

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					1.0700e-003	0.0000	1.0700e-003	1.6000e-004	0.0000	1.6000e-004			0.0000			0.0000
Off-Road	1.8995	23.6201	12.7461	0.0245		0.9540	0.9540		0.8777	0.8777	0.0000	2,468.4131	2,468.4131	0.7685		2,487.6244
Total	1.8995	23.6201	12.7461	0.0245	1.0700e-003	0.9540	0.9551	1.6000e-004	0.8777	0.8778	0.0000	2,468.4131	2,468.4131	0.7685		2,487.6244

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3.7 Site Preparation - 2018

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	0.0114	0.3874	0.0728	9.8000e-004	0.0210	1.5600e-003	0.0225	5.7400e-003	1.4900e-003	7.2300e-003		104.2196	104.2196	5.3500e-003		104.3534
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	0.0337	0.0218	0.2680	7.0000e-004	0.0657	4.4000e-004	0.0662	0.0174	4.1000e-004	0.0178		69.8851	69.8851	2.0400e-003		69.9361
Total	0.0451	0.4091	0.3408	1.6800e-003	0.0867	2.0000e-003	0.0887	0.0232	1.9000e-003	0.0251		174.1047	174.1047	7.3900e-003		174.2896

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

- Increase Density
- Increase Diversity
- Increase Transit Accessibility
- Improve Pedestrian Network

Rocketship School - Bay Area AQMD Air District, Summer

	ROG	NOx	CO	SO2	Fugitive 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	3.2389	11.3497	27.9981	0.0746	5.5134	0.0962	5.6096	1.4758	0.0908	1.5666		7,521.783 2	7,521.783 2	0.3415		7,530.321 1
Unmitigated	3.5602	13.6434	35.9289	0.1019	7.7343	0.1302	7.8644	2.0703	0.1229	2.1932		10,269.32 16	10,269.32 16	0.4300		10,280.07 13

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Elementary School	1,650.00	64.20	64.20	2,639,123	1,881,299
Parking Lot	0.00	0.00	0.00		
Total	1,650.00	64.20	64.20	2,639,123	1,881,299

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
Elementary School	9.50	7.30	7.30	65.00	30.00	5.00	63	25	12
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Elementary School	0.567674	0.042970	0.194260	0.117237	0.019396	0.005375	0.016640	0.023570	0.002459	0.002683	0.006005	0.000868	0.000864
Parking Lot	0.567674	0.042970	0.194260	0.117237	0.019396	0.005375	0.016640	0.023570	0.002459	0.002683	0.006005	0.000868	0.000864

Rocketship School - Bay Area AQMD Air District, Summer

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	0.0158	0.1440	0.1209	8.6000e-004		0.0109	0.0109		0.0109	0.0109		172.7567	172.7567	3.3100e-003	3.1700e-003	173.7833
NaturalGas Unmitigated	0.0158	0.1440	0.1209	8.6000e-004		0.0109	0.0109		0.0109	0.0109		172.7567	172.7567	3.3100e-003	3.1700e-003	173.7833

Rocketship School - Bay Area AQMD Air District, Summer

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					
Elementary School	1468.43	0.0158	0.1440	0.1209	8.6000e-004		0.0109	0.0109		0.0109	0.0109		172.7567	172.7567	3.3100e-003	3.1700e-003	173.7833
Parking Lot	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
Total		0.0158	0.1440	0.1209	8.6000e-004		0.0109	0.0109		0.0109	0.0109		172.7567	172.7567	3.3100e-003	3.1700e-003	173.7833

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					
Elementary School	1.46843	0.0158	0.1440	0.1209	8.6000e-004		0.0109	0.0109		0.0109	0.0109		172.7567	172.7567	3.3100e-003	3.1700e-003	173.7833
Parking Lot	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
Total		0.0158	0.1440	0.1209	8.6000e-004		0.0109	0.0109		0.0109	0.0109		172.7567	172.7567	3.3100e-003	3.1700e-003	173.7833

6.0 Area Detail

6.1 Mitigation Measures Area

Rocketship School - Bay Area AQMD Air District, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.7522	6.3000e-004	0.0672	0.0000		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004		0.1420	0.1420	3.9000e-004		0.1518
Unmitigated	0.7522	6.3000e-004	0.0672	0.0000		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004		0.1420	0.1420	3.9000e-004		0.1518

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	0.0890					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.6568					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.4200e-003	6.3000e-004	0.0672	0.0000		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004		0.1420	0.1420	3.9000e-004		0.1518
Total	0.7522	6.3000e-004	0.0672	0.0000		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004		0.1420	0.1420	3.9000e-004		0.1518

Rocketship School - Bay Area AQMD Air District, Summer

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	0.0890					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.6568					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.4200e-003	6.3000e-004	0.0672	0.0000		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004		0.1420	0.1420	3.9000e-004		0.1518
Total	0.7522	6.3000e-004	0.0672	0.0000		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004		0.1420	0.1420	3.9000e-004		0.1518

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

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

Rocketship School - Bay Area AQMD Air District, Summer

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

Rocketship School - Bay Area AQMD Air District, Winter

Rocketship School
Bay Area AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Elementary School	600.00	Student	1.70	30,367.00	0
Parking Lot	49.00	Space	0.44	19,600.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	64
Climate Zone	4			Operational Year	2018
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	414.88	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Rocketship School - Bay Area AQMD Air District, Winter

Project Characteristics - CO2 Intensity adjusted based on PG&E progress towards RPS

Land Use - *

Construction Phase - Information provided by applicant

Grading - Applicant provided information

Demolition -

Vehicle Trips - Trip Rates based on Traffic Report for project

Energy Use - Adjusted for compliance with 2016 Title 24

Water Mitigation -

Mobile Land Use Mitigation -

Energy Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	154.00
tblConstructionPhase	NumDays	220.00	154.00
tblConstructionPhase	NumDays	20.00	44.00
tblConstructionPhase	NumDays	6.00	5.00
tblConstructionPhase	NumDays	10.00	2.00
tblConstructionPhase	NumDays	3.00	10.00
tblConstructionPhase	PhaseEndDate	10/31/2017	9/11/2018
tblConstructionPhase	PhaseEndDate	10/31/2017	8/28/2018
tblConstructionPhase	PhaseEndDate	10/31/2017	1/1/2018
tblConstructionPhase	PhaseEndDate	10/31/2017	1/22/2018
tblConstructionPhase	PhaseEndDate	10/31/2017	1/24/2018
tblConstructionPhase	PhaseEndDate	10/31/2017	1/15/2018
tblConstructionPhase	PhaseStartDate	11/1/2017	2/8/2018
tblConstructionPhase	PhaseStartDate	11/1/2017	1/25/2018
tblConstructionPhase	PhaseStartDate	11/1/2017	1/16/2018

Rocketship School - Bay Area AQMD Air District, Winter

tblConstructionPhase	PhaseStartDate	11/1/2017	1/23/2018
tblConstructionPhase	PhaseStartDate	11/1/2017	1/2/2018
tblEnergyUse	T24E	1.63	1.50
tblEnergyUse	T24NG	17.60	16.72
tblGrading	AcresOfGrading	2.50	1.18
tblGrading	AcresOfGrading	15.00	0.00
tblGrading	MaterialExported	0.00	1,600.00
tblGrading	MaterialExported	0.00	95.00
tblLandUse	BuildingSpaceSquareFeet	50,162.02	30,367.00
tblLandUse	LandUseSquareFeet	50,162.02	30,367.00
tblLandUse	LotAcreage	1.15	1.70
tblProjectCharacteristics	CO2IntensityFactor	641.35	414.88
tblVehicleTrips	ST_TR	0.00	0.11
tblVehicleTrips	SU_TR	0.00	0.11
tblVehicleTrips	WD_TR	1.29	2.75

2.0 Emissions Summary

Rocketship School - Bay Area AQMD Air District, Winter

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	0.7522	6.3000e-004	0.0672	0.0000		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004		0.1420	0.1420	3.9000e-004		0.1518
Energy	0.0158	0.1440	0.1209	8.6000e-004		0.0109	0.0109		0.0109	0.0109		172.7567	172.7567	3.3100e-003	3.1700e-003	173.7833
Mobile	3.1372	14.4736	36.8487	0.0953	7.7343	0.1314	7.8656	2.0703	0.1240	2.1944		9,603.332 1	9,603.332 1	0.4400		9,614.333 1
Total	3.9053	14.6182	37.0368	0.0962	7.7343	0.1426	7.8768	2.0703	0.1352	2.2055		9,776.230 8	9,776.230 8	0.4437	3.1700e-003	9,788.268 2

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	0.7522	6.3000e-004	0.0672	0.0000		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004		0.1420	0.1420	3.9000e-004		0.1518
Energy	0.0158	0.1440	0.1209	8.6000e-004		0.0109	0.0109		0.0109	0.0109		172.7567	172.7567	3.3100e-003	3.1700e-003	173.7833
Mobile	2.8196	11.9392	29.7435	0.0698	5.5134	0.0974	5.6108	1.4758	0.0920	1.5678		7,030.794 2	7,030.794 2	0.3565		7,039.705 4
Total	3.5877	12.0838	29.9316	0.0706	5.5134	0.1086	5.6220	1.4758	0.1031	1.5790		7,203.692 9	7,203.692 9	0.3602	3.1700e-003	7,213.640 5

Rocketship School - Bay Area AQMD Air District, 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
Percent Reduction	8.13	17.34	19.18	26.54	28.71	23.81	28.63	28.71	23.72	28.41	0.00	26.31	26.31	18.84	0.00	26.30

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Architectural Coating	Architectural Coating	2/8/2018	9/11/2018	5	154	
2	Building Construction	Building Construction	1/25/2018	8/28/2018	5	154	
3	Demolition	Demolition	11/1/2017	1/1/2018	5	44	
4	Grading	Grading	1/16/2018	1/22/2018	5	5	
5	Paving	Paving	1/23/2018	1/24/2018	5	2	
6	Site Preparation	Site Preparation	1/2/2018	1/15/2018	5	10	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 1.18

Acres of Paving: 0.44

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 45,551; Non-Residential Outdoor: 15,184; Striped Parking Area: 1,176 (Architectural Coating – sqft)

OffRoad Equipment

Rocketship School - Bay Area AQMD Air District, Winter

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	1	8.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Site Preparation	Graders	1	8.00	187	0.41
Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Paving	Paving Equipment	1	8.00	132	0.36
Site Preparation	Scrapers	1	8.00	367	0.48
Building Construction	Welders	3	8.00	46	0.45

Trips and VMT

Rocketship School - Bay Area AQMD Air District, Winter

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	4.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	21.00	8.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	5	13.00	0.00	114.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	200.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	12.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Architectural Coating - 2018

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	2.1096					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.1171
Total	2.4082	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.1171

Rocketship School - Bay Area AQMD Air District, Winter

3.2 Architectural Coating - 2018

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	0.0178	0.0135	0.1274	3.2000e-004	0.0329	2.2000e-004	0.0331	8.7200e-003	2.0000e-004	8.9200e-003		32.1915	32.1915	9.7000e-004		32.2156
Total	0.0178	0.0135	0.1274	3.2000e-004	0.0329	2.2000e-004	0.0331	8.7200e-003	2.0000e-004	8.9200e-003		32.1915	32.1915	9.7000e-004		32.2156

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	2.1096					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267		282.1171
Total	2.4082	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267		282.1171

Rocketship School - Bay Area AQMD Air District, Winter

3.2 Architectural Coating - 2018

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	0.0178	0.0135	0.1274	3.2000e-004	0.0329	2.2000e-004	0.0331	8.7200e-003	2.0000e-004	8.9200e-003		32.1915	32.1915	9.7000e-004		32.2156
Total	0.0178	0.0135	0.1274	3.2000e-004	0.0329	2.2000e-004	0.0331	8.7200e-003	2.0000e-004	8.9200e-003		32.1915	32.1915	9.7000e-004		32.2156

3.3 Building Construction - 2018

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	2.9127	20.7077	15.7183	0.0250		1.2575	1.2575		1.2051	1.2051		2,329.7759	2,329.7759	0.5019		2,342.3232
Total	2.9127	20.7077	15.7183	0.0250		1.2575	1.2575		1.2051	1.2051		2,329.7759	2,329.7759	0.5019		2,342.3232

Rocketship School - Bay Area AQMD Air District, Winter

3.3 Building Construction - 2018

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	0.0433	1.0720	0.3049	2.1800e-003	0.0542	8.3000e-003	0.0625	0.0156	7.9400e-003	0.0235		230.5934	230.5934	0.0141			230.9455
Worker	0.0936	0.0706	0.6687	1.7000e-003	0.1725	1.1600e-003	0.1737	0.0458	1.0700e-003	0.0468		169.0052	169.0052	5.0700e-003			169.1319
Total	0.1369	1.1426	0.9735	3.8800e-003	0.2267	9.4600e-003	0.2361	0.0614	9.0100e-003	0.0704		399.5986	399.5986	0.0192			400.0774

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	2.9127	20.7077	15.7183	0.0250		1.2575	1.2575		1.2051	1.2051	0.0000	2,329.7759	2,329.7759	0.5019			2,342.3232
Total	2.9127	20.7077	15.7183	0.0250		1.2575	1.2575		1.2051	1.2051	0.0000	2,329.7759	2,329.7759	0.5019			2,342.3232

Rocketship School - Bay Area AQMD Air District, Winter

3.3 Building Construction - 2018

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	0.0433	1.0720	0.3049	2.1800e-003	0.0542	8.3000e-003	0.0625	0.0156	7.9400e-003	0.0235		230.5934	230.5934	0.0141		230.9455
Worker	0.0936	0.0706	0.6687	1.7000e-003	0.1725	1.1600e-003	0.1737	0.0458	1.0700e-003	0.0468		169.0052	169.0052	5.0700e-003		169.1319
Total	0.1369	1.1426	0.9735	3.8800e-003	0.2267	9.4600e-003	0.2361	0.0614	9.0100e-003	0.0704		399.5986	399.5986	0.0192		400.0774

3.4 Demolition - 2017

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					0.5593	0.0000	0.5593	0.0847	0.0000	0.0847			0.0000			0.0000
Off-Road	2.7625	26.7594	15.5573	0.0241		1.6477	1.6477		1.5404	1.5404		2,421.4229	2,421.4229	0.6125		2,436.7347
Total	2.7625	26.7594	15.5573	0.0241	0.5593	1.6477	2.2069	0.0847	1.5404	1.6251		2,421.4229	2,421.4229	0.6125		2,436.7347

Rocketship School - Bay Area AQMD Air District, Winter

3.4 Demolition - 2017

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	0.0297	0.9303	0.1888	2.1000e-003	0.0461	5.2500e-003	0.0513	0.0126	5.0200e-003	0.0176		223.2697	223.2697	0.0127		223.5859
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	0.0653	0.0503	0.4750	1.0800e-003	0.1068	7.4000e-004	0.1075	0.0283	6.9000e-004	0.0290		107.6311	107.6311	3.6000e-003		107.7212
Total	0.0949	0.9806	0.6638	3.1800e-003	0.1529	5.9900e-003	0.1588	0.0409	5.7100e-003	0.0466		330.9008	330.9008	0.0163		331.3070

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					0.5593	0.0000	0.5593	0.0847	0.0000	0.0847			0.0000			0.0000
Off-Road	2.7625	26.7594	15.5573	0.0241		1.6477	1.6477		1.5404	1.5404	0.0000	2,421.4229	2,421.4229	0.6125		2,436.7347
Total	2.7625	26.7594	15.5573	0.0241	0.5593	1.6477	2.2069	0.0847	1.5404	1.6251	0.0000	2,421.4229	2,421.4229	0.6125		2,436.7347

Rocketship School - Bay Area AQMD Air District, Winter

3.4 Demolition - 2017

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	0.0297	0.9303	0.1888	2.1000e-003	0.0461	5.2500e-003	0.0513	0.0126	5.0200e-003	0.0176		223.2697	223.2697	0.0127		223.5859
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	0.0653	0.0503	0.4750	1.0800e-003	0.1068	7.4000e-004	0.1075	0.0283	6.9000e-004	0.0290		107.6311	107.6311	3.6000e-003		107.7212
Total	0.0949	0.9806	0.6638	3.1800e-003	0.1529	5.9900e-003	0.1588	0.0409	5.7100e-003	0.0466		330.9008	330.9008	0.0163		331.3070

3.4 Demolition - 2018

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					0.5593	0.0000	0.5593	0.0847	0.0000	0.0847			0.0000			0.0000
Off-Road	2.4838	24.3641	15.1107	0.0241		1.4365	1.4365		1.3429	1.3429		2,391.1659	2,391.1659	0.6058		2,406.3105
Total	2.4838	24.3641	15.1107	0.0241	0.5593	1.4365	1.9957	0.0847	1.3429	1.4276		2,391.1659	2,391.1659	0.6058		2,406.3105

Rocketship School - Bay Area AQMD Air District, Winter

3.4 Demolition - 2018

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	0.0253	0.8580	0.1710	2.0800e-003	1.5182	3.4300e-003	1.5217	0.3740	3.2800e-003	0.3772		221.3823	221.3823	0.0122		221.6874
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	0.0579	0.0437	0.4139	1.0500e-003	0.1068	7.2000e-004	0.1075	0.0283	6.6000e-004	0.0290		104.6223	104.6223	3.1400e-003		104.7007
Total	0.0832	0.9017	0.5849	3.1300e-003	1.6250	4.1500e-003	1.6292	0.4023	3.9400e-003	0.4062		326.0045	326.0045	0.0154		326.3881

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					0.5593	0.0000	0.5593	0.0847	0.0000	0.0847			0.0000			0.0000
Off-Road	2.4838	24.3641	15.1107	0.0241		1.4365	1.4365		1.3429	1.3429	0.0000	2,391.1659	2,391.1659	0.6058		2,406.3105
Total	2.4838	24.3641	15.1107	0.0241	0.5593	1.4365	1.9957	0.0847	1.3429	1.4276	0.0000	2,391.1659	2,391.1659	0.6058		2,406.3105

Rocketship School - Bay Area AQMD Air District, Winter

3.4 Demolition - 2018

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	0.0253	0.8580	0.1710	2.0800e-003	1.5182	3.4300e-003	1.5217	0.3740	3.2800e-003	0.3772		221.3823	221.3823	0.0122		221.6874
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	0.0579	0.0437	0.4139	1.0500e-003	0.1068	7.2000e-004	0.1075	0.0283	6.6000e-004	0.0290		104.6223	104.6223	3.1400e-003		104.7007
Total	0.0832	0.9017	0.5849	3.1300e-003	1.6250	4.1500e-003	1.6292	0.4023	3.9400e-003	0.4062		326.0045	326.0045	0.0154		326.3881

3.5 Grading - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.3086	0.0000	6.3086	3.3427	0.0000	3.3427			0.0000			0.0000
Off-Road	2.1515	24.2895	10.3804	0.0206		1.1683	1.1683		1.0748	1.0748		2,077.4666	2,077.4666	0.6467		2,093.6352
Total	2.1515	24.2895	10.3804	0.0206	6.3086	1.1683	7.4769	3.3427	1.0748	4.4176		2,077.4666	2,077.4666	0.6467		2,093.6352

Rocketship School - Bay Area AQMD Air District, Winter

3.5 Grading - 2018

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	0.3902	13.2466	2.6394	0.0320	0.6988	0.0530	0.7518	0.1915	0.0507	0.2422		3,417.831 2	3,417.831 2	0.1884		3,422.542 2
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	0.0446	0.0336	0.3184	8.1000e-004	0.0822	5.5000e-004	0.0827	0.0218	5.1000e-004	0.0223		80.4787	80.4787	2.4100e-003		80.5390
Total	0.4348	13.2802	2.9578	0.0329	0.7809	0.0535	0.8345	0.2133	0.0512	0.2645		3,498.309 9	3,498.309 9	0.1909		3,503.081 2

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.3086	0.0000	6.3086	3.3427	0.0000	3.3427			0.0000			0.0000
Off-Road	2.1515	24.2895	10.3804	0.0206		1.1683	1.1683		1.0748	1.0748	0.0000	2,077.466 6	2,077.466 6	0.6467		2,093.635 2
Total	2.1515	24.2895	10.3804	0.0206	6.3086	1.1683	7.4769	3.3427	1.0748	4.4176	0.0000	2,077.466 6	2,077.466 6	0.6467		2,093.635 2

Rocketship School - Bay Area AQMD Air District, Winter

3.5 Grading - 2018

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	0.3902	13.2466	2.6394	0.0320	0.6988	0.0530	0.7518	0.1915	0.0507	0.2422		3,417.8312	3,417.8312	0.1884		3,422.5422
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	0.0446	0.0336	0.3184	8.1000e-004	0.0822	5.5000e-004	0.0827	0.0218	5.1000e-004	0.0223		80.4787	80.4787	2.4100e-003		80.5390
Total	0.4348	13.2802	2.9578	0.0329	0.7809	0.0535	0.8345	0.2133	0.0512	0.2645		3,498.3099	3,498.3099	0.1909		3,503.0812

3.6 Paving - 2018

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	1.4046	14.2518	11.9787	0.0178		0.8505	0.8505		0.7836	0.7836		1,774.2430	1,774.2430	0.5419		1,787.7896
Paving	0.5764					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.9810	14.2518	11.9787	0.0178		0.8505	0.8505		0.7836	0.7836		1,774.2430	1,774.2430	0.5419		1,787.7896

Rocketship School - Bay Area AQMD Air District, Winter

3.6 Paving - 2018

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	0.0669	0.0504	0.4776	1.2100e-003	0.1232	8.3000e-004	0.1241	0.0327	7.7000e-004	0.0335		120.7180	120.7180	3.6200e-003		120.8085
Total	0.0669	0.0504	0.4776	1.2100e-003	0.1232	8.3000e-004	0.1241	0.0327	7.7000e-004	0.0335		120.7180	120.7180	3.6200e-003		120.8085

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	1.4046	14.2518	11.9787	0.0178		0.8505	0.8505		0.7836	0.7836	0.0000	1,774.2430	1,774.2430	0.5419		1,787.7896
Paving	0.5764					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.9810	14.2518	11.9787	0.0178		0.8505	0.8505		0.7836	0.7836	0.0000	1,774.2430	1,774.2430	0.5419		1,787.7896

Rocketship School - Bay Area AQMD Air District, Winter

3.6 Paving - 2018

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	0.0669	0.0504	0.4776	1.2100e-003	0.1232	8.3000e-004	0.1241	0.0327	7.7000e-004	0.0335		120.7180	120.7180	3.6200e-003		120.8085
Total	0.0669	0.0504	0.4776	1.2100e-003	0.1232	8.3000e-004	0.1241	0.0327	7.7000e-004	0.0335		120.7180	120.7180	3.6200e-003		120.8085

3.7 Site Preparation - 2018

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					1.0700e-003	0.0000	1.0700e-003	1.6000e-004	0.0000	1.6000e-004			0.0000			0.0000
Off-Road	1.8995	23.6201	12.7461	0.0245		0.9540	0.9540		0.8777	0.8777		2,468.4131	2,468.4131	0.7685		2,487.6244
Total	1.8995	23.6201	12.7461	0.0245	1.0700e-003	0.9540	0.9551	1.6000e-004	0.8777	0.8778		2,468.4131	2,468.4131	0.7685		2,487.6244

Rocketship School - Bay Area AQMD Air District, Winter

3.7 Site Preparation - 2018

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	0.0117	0.3974	0.0792	9.6000e-004	0.0210	1.5900e-003	0.0226	5.7400e-003	1.5200e-003	7.2700e-003		102.5349	102.5349	5.6500e-003		102.6763
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	0.0357	0.0269	0.2547	6.5000e-004	0.0657	4.4000e-004	0.0662	0.0174	4.1000e-004	0.0178		64.3829	64.3829	1.9300e-003		64.4312
Total	0.0474	0.4243	0.3339	1.6100e-003	0.0867	2.0300e-003	0.0887	0.0232	1.9300e-003	0.0251		166.9179	166.9179	7.5800e-003		167.1075

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					1.0700e-003	0.0000	1.0700e-003	1.6000e-004	0.0000	1.6000e-004			0.0000			0.0000
Off-Road	1.8995	23.6201	12.7461	0.0245		0.9540	0.9540		0.8777	0.8777	0.0000	2,468.4131	2,468.4131	0.7685		2,487.6244
Total	1.8995	23.6201	12.7461	0.0245	1.0700e-003	0.9540	0.9551	1.6000e-004	0.8777	0.8778	0.0000	2,468.4131	2,468.4131	0.7685		2,487.6244

Rocketship School - Bay Area AQMD Air District, Winter

3.7 Site Preparation - 2018

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	0.0117	0.3974	0.0792	9.6000e-004	0.0210	1.5900e-003	0.0226	5.7400e-003	1.5200e-003	7.2700e-003		102.5349	102.5349	5.6500e-003		102.6763
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	0.0357	0.0269	0.2547	6.5000e-004	0.0657	4.4000e-004	0.0662	0.0174	4.1000e-004	0.0178		64.3829	64.3829	1.9300e-003		64.4312
Total	0.0474	0.4243	0.3339	1.6100e-003	0.0867	2.0300e-003	0.0887	0.0232	1.9300e-003	0.0251		166.9179	166.9179	7.5800e-003		167.1075

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

- Increase Density
- Increase Diversity
- Increase Transit Accessibility
- Improve Pedestrian Network

Rocketship School - Bay Area AQMD Air District, 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	2.8196	11.9392	29.7435	0.0698	5.5134	0.0974	5.6108	1.4758	0.0920	1.5678		7,030.794 2	7,030.794 2	0.3565		7,039.705 4
Unmitigated	3.1372	14.4736	36.8487	0.0953	7.7343	0.1314	7.8656	2.0703	0.1240	2.1944		9,603.332 1	9,603.332 1	0.4400		9,614.333 1

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Elementary School	1,650.00	64.20	64.20	2,639,123	1,881,299
Parking Lot	0.00	0.00	0.00		
Total	1,650.00	64.20	64.20	2,639,123	1,881,299

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
Elementary School	9.50	7.30	7.30	65.00	30.00	5.00	63	25	12
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Elementary School	0.567674	0.042970	0.194260	0.117237	0.019396	0.005375	0.016640	0.023570	0.002459	0.002683	0.006005	0.000868	0.000864
Parking Lot	0.567674	0.042970	0.194260	0.117237	0.019396	0.005375	0.016640	0.023570	0.002459	0.002683	0.006005	0.000868	0.000864

Rocketship School - Bay Area AQMD Air District, Winter

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	0.0158	0.1440	0.1209	8.6000e-004		0.0109	0.0109		0.0109	0.0109		172.7567	172.7567	3.3100e-003	3.1700e-003	173.7833
NaturalGas Unmitigated	0.0158	0.1440	0.1209	8.6000e-004		0.0109	0.0109		0.0109	0.0109		172.7567	172.7567	3.3100e-003	3.1700e-003	173.7833

Rocketship School - Bay Area AQMD Air District, Winter

5.2 Energy by Land Use - Natural Gas

Unmitigated

	Natural Gas 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					
Elementary School	1468.43	0.0158	0.1440	0.1209	8.6000e-004		0.0109	0.0109		0.0109	0.0109		172.7567	172.7567	3.3100e-003	3.1700e-003	173.7833
Parking Lot	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
Total		0.0158	0.1440	0.1209	8.6000e-004		0.0109	0.0109		0.0109	0.0109		172.7567	172.7567	3.3100e-003	3.1700e-003	173.7833

Mitigated

	Natural Gas 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					
Elementary School	1.46843	0.0158	0.1440	0.1209	8.6000e-004		0.0109	0.0109		0.0109	0.0109		172.7567	172.7567	3.3100e-003	3.1700e-003	173.7833
Parking Lot	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
Total		0.0158	0.1440	0.1209	8.6000e-004		0.0109	0.0109		0.0109	0.0109		172.7567	172.7567	3.3100e-003	3.1700e-003	173.7833

6.0 Area Detail

6.1 Mitigation Measures Area

Rocketship School - Bay Area AQMD Air District, 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	0.7522	6.3000e-004	0.0672	0.0000		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004		0.1420	0.1420	3.9000e-004		0.1518
Unmitigated	0.7522	6.3000e-004	0.0672	0.0000		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004		0.1420	0.1420	3.9000e-004		0.1518

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	0.0890					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.6568					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.4200e-003	6.3000e-004	0.0672	0.0000		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004		0.1420	0.1420	3.9000e-004		0.1518
Total	0.7522	6.3000e-004	0.0672	0.0000		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004		0.1420	0.1420	3.9000e-004		0.1518

Rocketship School - Bay Area AQMD Air District, 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	0.0890					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.6568					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.4200e-003	6.3000e-004	0.0672	0.0000		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004		0.1420	0.1420	3.9000e-004		0.1518
Total	0.7522	6.3000e-004	0.0672	0.0000		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004		0.1420	0.1420	3.9000e-004		0.1518

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

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

Rocketship School - Bay Area AQMD Air District, Winter

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

Rocketship School
Bay Area AQMD Air District, Mitigation Report

Construction Mitigation Summary

Phase	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio-CO2	Total CO2	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
Cement and Mortar Mixers	Diesel	No Change	0	1	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	2	No Change	0.00
Graders	Diesel	No Change	0	2	No Change	0.00
Pavers	Diesel	No Change	0	1	No Change	0.00
Rollers	Diesel	No Change	0	2	No Change	0.00
Rubber Tired Dozers	Diesel	No Change	0	2	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	No Change	0	8	No Change	0.00
Generator Sets	Diesel	No Change	0	1	No Change	0.00
Paving Equipment	Diesel	No Change	0	1	No Change	0.00
Scrapers	Diesel	No Change	0	1	No Change	0.00
Welders	Diesel	No Change	0	3	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	2.29900E-002	1.54440E-001	1.42770E-001	2.30000E-004	1.15900E-002	1.15900E-002	0.00000E+000	1.96601E+001	1.96601E+001	1.87000E-003	0.00000E+000	1.97068E+001
Cement and Mortar Mixers	6.00000E-005	3.70000E-004	3.10000E-004	0.00000E+000	1.00000E-005	1.00000E-005	0.00000E+000	4.58300E-002	4.58300E-002	0.00000E+000	0.00000E+000	4.59500E-002
Concrete/Industrial Saws	1.27500E-002	9.35700E-002	8.24700E-002	1.40000E-004	6.73000E-003	6.73000E-003	0.00000E+000	1.18284E+001	1.18284E+001	1.04000E-003	0.00000E+000	1.18544E+001
Cranes	4.39500E-002	5.25200E-001	1.94180E-001	4.40000E-004	2.27300E-002	2.09100E-002	0.00000E+000	4.05566E+001	4.05566E+001	1.26300E-002	0.00000E+000	4.08723E+001
Forklifts	2.40000E-002	2.12160E-001	1.63210E-001	2.10000E-004	1.69300E-002	1.55800E-002	0.00000E+000	1.87995E+001	1.87995E+001	5.85000E-003	0.00000E+000	1.89458E+001
Generator Sets	3.89200E-002	3.16730E-001	2.88530E-001	5.10000E-004	2.01800E-002	2.01800E-002	0.00000E+000	4.35210E+001	4.35210E+001	3.14000E-003	0.00000E+000	4.35995E+001
Graders	3.90000E-003	5.34600E-002	1.43600E-002	5.00000E-005	1.74000E-003	1.60000E-003	0.00000E+000	4.55816E+000	4.55816E+000	1.42000E-003	0.00000E+000	4.59364E+000
Pavers	3.30000E-004	3.61000E-003	2.93000E-003	0.00000E+000	1.80000E-004	1.60000E-004	0.00000E+000	4.29220E-001	4.29220E-001	1.30000E-004	0.00000E+000	4.32560E-001
Paving Equipment	2.40000E-004	2.66000E-003	2.54000E-003	0.00000E+000	1.30000E-004	1.20000E-004	0.00000E+000	3.71950E-001	3.71950E-001	1.20000E-004	0.00000E+000	3.74850E-001
Rollers	5.20000E-004	4.99000E-003	3.87000E-003	1.00000E-005	3.40000E-004	3.20000E-004	0.00000E+000	4.78820E-001	4.78820E-001	1.50000E-004	0.00000E+000	4.82550E-001
Rubber Tired Dozers	2.99700E-002	3.25060E-001	1.12600E-001	2.10000E-004	1.59000E-002	1.46300E-002	0.00000E+000	1.93872E+001	1.93872E+001	5.95000E-003	0.00000E+000	1.95360E+001
Scrapers	5.73000E-003	7.09600E-002	4.39300E-002	8.00000E-005	2.80000E-003	2.57000E-003	0.00000E+000	6.91637E+000	6.91637E+000	2.15000E-003	0.00000E+000	6.97020E+000
Tractors/Loaders/Backhoes	3.87900E-002	3.77780E-001	3.15640E-001	4.10000E-004	2.76200E-002	2.54100E-002	0.00000E+000	3.82012E+001	3.82012E+001	1.18000E-002	0.00000E+000	3.84962E+001
Welders	1.02050E-001	3.88530E-001	4.29430E-001	5.90000E-004	2.62300E-002	2.62300E-002	0.00000E+000	4.34790E+001	4.34790E+001	8.34000E-003	0.00000E+000	4.36875E+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	2.29900E-002	1.54440E-001	1.42770E-001	2.30000E-004	1.15900E-002	1.15900E-002	0.00000E+000	1.96601E+001	1.96601E+001	1.87000E-003	0.00000E+000	1.97068E+001
Cement and Mortar Mixers	6.00000E-005	3.70000E-004	3.10000E-004	0.00000E+000	1.00000E-005	1.00000E-005	0.00000E+000	4.58300E-002	4.58300E-002	0.00000E+000	0.00000E+000	4.59500E-002
Concrete/Industrial Saws	1.27500E-002	9.35700E-002	8.24700E-002	1.40000E-004	6.73000E-003	6.73000E-003	0.00000E+000	1.18284E+001	1.18284E+001	1.04000E-003	0.00000E+000	1.18544E+001
Cranes	4.39500E-002	5.25200E-001	1.94180E-001	4.40000E-004	2.27300E-002	2.09100E-002	0.00000E+000	4.05566E+001	4.05566E+001	1.26300E-002	0.00000E+000	4.08722E+001
Forklifts	2.40000E-002	2.12160E-001	1.63210E-001	2.10000E-004	1.69300E-002	1.55800E-002	0.00000E+000	1.87995E+001	1.87995E+001	5.85000E-003	0.00000E+000	1.89458E+001
Generator Sets	3.89200E-002	3.16730E-001	2.88530E-001	5.10000E-004	2.01800E-002	2.01800E-002	0.00000E+000	4.35209E+001	4.35209E+001	3.14000E-003	0.00000E+000	4.35994E+001
Graders	3.90000E-003	5.34600E-002	1.43600E-002	5.00000E-005	1.74000E-003	1.60000E-003	0.00000E+000	4.55816E+000	4.55816E+000	1.42000E-003	0.00000E+000	4.59363E+000
Pavers	3.30000E-004	3.61000E-003	2.93000E-003	0.00000E+000	1.80000E-004	1.60000E-004	0.00000E+000	4.29220E-001	4.29220E-001	1.30000E-004	0.00000E+000	4.32560E-001
Paving Equipment	2.40000E-004	2.66000E-003	2.54000E-003	0.00000E+000	1.30000E-004	1.20000E-004	0.00000E+000	3.71950E-001	3.71950E-001	1.20000E-004	0.00000E+000	3.74840E-001
Rollers	5.20000E-004	4.99000E-003	3.87000E-003	1.00000E-005	3.40000E-004	3.20000E-004	0.00000E+000	4.78820E-001	4.78820E-001	1.50000E-004	0.00000E+000	4.82550E-001
Rubber Tired Dozers	2.99700E-002	3.25060E-001	1.12600E-001	2.10000E-004	1.59000E-002	1.46300E-002	0.00000E+000	1.93872E+001	1.93872E+001	5.95000E-003	0.00000E+000	1.95360E+001
Scrapers	5.73000E-003	7.09600E-002	4.39300E-002	8.00000E-005	2.80000E-003	2.57000E-003	0.00000E+000	6.91636E+000	6.91636E+000	2.15000E-003	0.00000E+000	6.97019E+000
Tractors/Loaders/Backhoes	3.87900E-002	3.77780E-001	3.15640E-001	4.10000E-004	2.76200E-002	2.54100E-002	0.00000E+000	3.82012E+001	3.82012E+001	1.18000E-002	0.00000E+000	3.84962E+001
Welders	1.02040E-001	3.88530E-001	4.29430E-001	5.90000E-004	2.62300E-002	2.62300E-002	0.00000E+000	4.34789E+001	4.34789E+001	8.34000E-003	0.00000E+000	4.36874E+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	1.01729E-006	1.01729E-006	0.00000E+000	0.00000E+000	1.01488E-006
Cement and Mortar Mixers	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
Concrete/Industrial Saws	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.69084E-006	1.69084E-006	0.00000E+000	0.00000E+000	1.68714E-006
Cranes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.23284E-006	1.23284E-006	0.00000E+000	0.00000E+000	1.22332E-006
Forklifts	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.06386E-006	1.06386E-006	0.00000E+000	0.00000E+000	1.05564E-006
Generator Sets	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.14887E-006	1.14887E-006	0.00000E+000	0.00000E+000	1.14680E-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	2.17692E-006
Pavers	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
Paving Equipment	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	2.66773E-005
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	0.00000E+000
Rubber Tired Dozers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.03161E-006	1.03161E-006	0.00000E+000	0.00000E+000	1.53563E-006
Scrapers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.44585E-006	1.44585E-006	0.00000E+000	0.00000E+000	1.43468E-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	1.04709E-006	1.04709E-006	0.00000E+000	0.00000E+000	1.29883E-006
Welders	9.79912E-005	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.37998E-006	1.37998E-006	0.00000E+000	0.00000E+000	1.14449E-006

Fugitive Dust Mitigation

Yes/No Mitigation Measure Mitigation Input Mitigation Input Mitigation Input

No	Soil Stabilizer for unpaved Roads	PM10 Reduction		PM2.5 Reduction	
No	Replace Ground Cover of Area Disturbed	PM10 Reduction		PM2.5 Reduction	
No	Water Exposed Area	PM10 Reduction		PM2.5 Reduction	Frequency (per day)

No	Unpaved Road Mitigation	Moisture Content %		Vehicle Speed (mph)			
No	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	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	Roads	0.02	0.00	0.02	0.00	0.00	0.00
Demolition	Fugitive Dust	0.01	0.00	0.01	0.00	0.00	0.00
Demolition	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Grading	Fugitive Dust	0.02	0.01	0.02	0.01	0.00	0.00
Grading	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Paving	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Paving	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	Roads	0.00	0.00	0.00	0.00	0.00	0.00

Operational Percent Reduction Summary

Category	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	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
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	10.03	17.21	20.18	26.71	25.94	26.00	0.00	26.71	26.71	19.61	0.00	26.70
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	24.36	21.81	0.15	1.69	16.25
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: Urban

Mitigation	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value
Yes	Land Use	Increase Density	0.00	0.00	15.00	
Yes	Land Use	Increase Diversity	0.09	0.30		
No	Land Use	Improve Walkability Design	0.00	0.00		
No	Land Use	Improve Destination Accessibility	0.00	0.00		
Yes	Land Use	Increase Transit Accessibility	0.22	0.09		
No	Land Use	Integrate Below Market Rate Housing	0.00	0.00		
	Land Use	Land Use SubTotal	0.27			

Yes	Neighborhood Enhancements	Improve Pedestrian Network	2.00	Project Site and Connecting Off-Site	
No	Neighborhood Enhancements	Provide Traffic Calming Measures	0.00		
No	Neighborhood Enhancements	Implement NEV Network	0.00		
	Neighborhood Enhancements	Neighborhood Enhancements Subtotal	0.02		
Yes	Parking Policy Pricing	Limit Parking Supply	0.00	0.00	
No	Parking Policy Pricing	Unbundle Parking Costs	0.00	0.00	
No	Parking Policy Pricing	On-street Market Pricing	0.00	0.00	
	Parking Policy Pricing	Parking Policy Pricing Subtotal	0.00		
No	Transit Improvements	Provide BRT System	0.00	0.00	
No	Transit Improvements	Expand Transit Network	0.00	0.00	
No	Transit Improvements	Increase Transit Frequency	0.00		0.00
	Transit Improvements	Transit Improvements Subtotal	0.00		
		Land Use and Site Enhancement Subtotal	0.29		
No	Commute	Implement Trip Reduction Program			
No	Commute	Transit Subsidy			
No	Commute	Implement Employee Parking "Cash Out"	7.70		
No	Commute	Workplace Parking Charge		0.00	
No	Commute	Encourage Telecommuting and Alternative Work Schedules	0.00		
No	Commute	Market Commute Trip Reduction Option	0.00		
No	Commute	Employee Vanpool/Shuttle	0.00		2.00
No	Commute	Provide Ride Sharing Program	15.00		
	Commute	Commute Subtotal	0.00		

No	School Trip	Implement School Bus Program	0.00		
		Total VMT Reduction	0.29		

Area Mitigation

Measure Implemented	Mitigation Measure	Input Value
No	Only Natural Gas Hearth	
No	No Hearth	
No	Use Low VOC Cleaning Supplies	
No	Use Low VOC Paint (Residential Interior)	100.00
No	Use Low VOC Paint (Residential Exterior)	150.00
No	Use Low VOC Paint (Non-residential Interior)	100.00
No	Use Low VOC Paint (Non-residential Exterior)	150.00
No	Use Low VOC Paint (Parking)	150.00
No	% Electric Lawnmower	
No	% Electric Leafblower	
No	% Electric Chainsaw	

Energy Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Exceed Title 24		
No	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	39.00
No	Use Reclaimed Water	0.00	0.00
No	Use Grey Water	0.00	
No	Install low-flow bathroom faucet	32.00	
No	Install low-flow Kitchen faucet	18.00	
No	Install low-flow Toilet	20.00	
No	Install low-flow Shower	20.00	
No	Turf Reduction	0.00	
No	Use Water Efficient Irrigation Systems	6.10	
No	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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Rocketship School - Bay Area AQMD Air District, Summary Report

Rocketship School
Bay Area AQMD, Summary Report

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Elementary School	600.00	Student	1.70	30,367.00	0
Parking Lot	49.00	Space	0.44	19,600.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	64
Climate Zone	4			Operational Year	2018
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	414.88	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments

Only CalEEMod defaults were used.

Rocketship School - Bay Area AQMD Air District, Summary Report

Project Characteristics - CO2 Intensity adjusted based on PG&E progress towards RPS

Land Use - *

Construction Phase - Information provided by applicant

Grading - Applicant provided information

Demolition -

Vehicle Trips - Trip Rates based on Traffic Report for project

Energy Use - Adjusted for compliance with 2016 Title 24

Water Mitigation -

Mobile Land Use Mitigation -

Energy Mitigation -

2.0 Peak Daily Emissions

Peak Daily Construction Emissions

Peak Daily Construction Emissions

