

Appendix A

Air Quality/Greenhouse Gas Modeling Results

300 Studebaker Industrial Project - South Coast Air Basin, Summer

300 Studebaker Industrial Project

South Coast Air Basin, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	21.00	1000sqft	0.00	21,000.00	0
General Light Industry	118.50	1000sqft	4.00	118,200.00	0
Other Asphalt Surfaces	2.00	1000sqft	0.04	2,000.00	0
Parking Lot	168.00	Space	2.70	117,612.00	0
City Park	1.81	Acre	1.81	78,843.60	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	8			Operational Year	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

300 Studebaker Industrial Project - South Coast Air Basin, Summer

Project Characteristics -

Land Use - Based on project details and construction questionnaire; City park = western parcels; Other asphalt = sewer line

Construction Phase - Based on construction questionnaire

Off-road Equipment - CARB's OFFROAD2017 Diesel Emission Factor for Other Construction Equipment (<https://ww3.arb.ca.gov/msei/ordiesel.htm>)

)

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - Added scraper per construction questionnaire

Trips and VMT - CalEEMod assumes 262 trips using 16 CY trucks

Demolition - Per construction questionnaire

Grading - Per grading project plans and updated information: 0 cy export, 2095 cy import

Architectural Coating - Compliance with SCAQMD Rule 1113

Vehicle Trips - Per traffic study Table D; Extended weekday trip rate for industry to Sat. and Sun.; Zero out city park trips since western parcels would not generate trips

Area Coating - Per SCAQMD Rule 1113

Construction Off-road Equipment Mitigation - Compliance with SCAQMD Rule 403

Area Mitigation -

Fleet Mix - Fleet mix for Industry use has been updated to reflect passenger vehicle and truck trip generation from project TIA

Off-road Equipment -

Off-road Equipment -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	69,600.00	69,750.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	208,800.00	209,250.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Parking	100.00	50.00

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tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblAreaCoating	Area_EF_Parking	100	50
tblAreaCoating	Area_Nonresidential_Exterior	69600	69750
tblAreaCoating	Area_Nonresidential_Interior	208800	209250
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstructionPhase	NumDays	10.00	22.00
tblConstructionPhase	NumDays	20.00	43.00
tblConstructionPhase	NumDays	230.00	154.00
tblConstructionPhase	NumDays	20.00	66.00
tblConstructionPhase	NumDays	20.00	44.00
tblFleetMix	HHD	0.03	0.24
tblFleetMix	LDA	0.55	0.36
tblFleetMix	LDT1	0.04	0.03
tblFleetMix	LDT2	0.20	0.13
tblFleetMix	LHD1	0.02	0.05
tblFleetMix	LHD2	5.8640e-003	0.02
tblFleetMix	MCY	4.7660e-003	0.00
tblFleetMix	MDV	0.12	0.08
tblFleetMix	MH	9.2400e-004	0.00
tblFleetMix	MHD	0.02	0.09
tblFleetMix	OBUS	2.0590e-003	0.00
tblFleetMix	SBUS	7.0600e-004	0.00
tblFleetMix	UBUS	1.8660e-003	0.00
tblGrading	AcresOfGrading	21.50	10.00
tblGrading	MaterialImported	0.00	2,095.00
tblLandUse	LandUseSquareFeet	118,500.00	118,200.00

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tblLandUse	LandUseSquareFeet	67,200.00	117,612.00
tblLandUse	LotAcreage	0.48	0.00
tblLandUse	LotAcreage	2.72	4.00
tblLandUse	LotAcreage	0.05	0.04
tblLandUse	LotAcreage	1.51	2.70
tblOffRoadEquipment	HorsePower	172.00	140.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblVehicleTrips	CC_TL	10.10	0.00
tblVehicleTrips	CC_TTP	48.00	0.00
tblVehicleTrips	CNW_TL	7.90	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CW_TL	18.50	0.00
tblVehicleTrips	CW_TTP	33.00	0.00
tblVehicleTrips	DV_TP	28.00	0.00
tblVehicleTrips	PB_TP	6.00	0.00
tblVehicleTrips	PR_TP	66.00	0.00
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	1.32	1.74
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	0.68	1.74
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	6.97	1.74
tblVehicleTrips	WD_TR	11.03	9.74

2.0 Emissions Summary

300 Studebaker Industrial Project - South Coast Air Basin, 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	2.9873	2.9000e-004	0.0319	0.0000		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004		0.0681	0.0681	1.8000e-004		0.0727
Energy	0.0787	0.7151	0.6007	4.2900e-003		0.0544	0.0544		0.0544	0.0544		858.1209	858.1209	0.0165	0.0157	863.2203
Mobile	0.9576	14.1186	12.4099	0.0699	3.9221	0.0599	3.9820	1.0607	0.0567	1.1173		7,293.4489	7,293.4489	0.3633		7,302.5304
Total	4.0235	14.8340	13.0425	0.0742	3.9221	0.1144	4.0365	1.0607	0.1111	1.1718		8,151.6379	8,151.6379	0.3799	0.0157	8,165.8233

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	2.9873	2.9000e-004	0.0319	0.0000		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004		0.0681	0.0681	1.8000e-004		0.0727
Energy	0.0787	0.7151	0.6007	4.2900e-003		0.0544	0.0544		0.0544	0.0544		858.1209	858.1209	0.0165	0.0157	863.2203
Mobile	0.9576	14.1186	12.4099	0.0699	3.9221	0.0599	3.9820	1.0607	0.0567	1.1173		7,293.4489	7,293.4489	0.3633		7,302.5304
Total	4.0235	14.8340	13.0425	0.0742	3.9221	0.1144	4.0365	1.0607	0.1111	1.1718		8,151.6379	8,151.6379	0.3799	0.0157	8,165.8233

300 Studebaker Industrial Project - South Coast Air Basin, 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	2/1/2020	2/28/2020	5	20	
2	Site Preparation	Site Preparation	3/2/2020	3/31/2020	5	22	
3	Grading	Grading	4/1/2020	5/29/2020	5	43	
4	Building Construction	Building Construction	6/1/2020	12/31/2020	5	154	
5	Paving	Paving	10/1/2020	12/31/2020	5	66	
6	Architectural Coating	Architectural Coating	11/2/2020	12/31/2020	5	44	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 10

Acres of Paving: 2.74

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 209,250; Non-Residential Outdoor: 69,750; Striped Parking Area: 7,177 (Architectural Coating – sqft)

OffRoad Equipment

300 Studebaker Industrial Project - South Coast Air Basin, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Other Construction Equipment	1	9.00	140	0.42
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

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
Demolition	6	15.00	0.00	2.00	19.80	7.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	19.80	7.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	262.00	19.80	7.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	10	140.00	55.00	0.00	19.80	7.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	19.80	7.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	28.00	0.00	0.00	19.80	7.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0197	0.0000	0.0197	2.9800e-003	0.0000	2.9800e-003			0.0000			0.0000
Off-Road	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419		3,747.7049	3,747.7049	1.0580		3,774.1536
Total	3.3121	33.2010	21.7532	0.0388	0.0197	1.6587	1.6784	2.9800e-003	1.5419	1.5448		3,747.7049	3,747.7049	1.0580		3,774.1536

300 Studebaker Industrial Project - South Coast Air Basin, Summer

3.2 Demolition - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	8.0000e-004	0.0279	5.7900e-003	8.0000e-005	1.7500e-003	9.0000e-005	1.8400e-003	4.8000e-004	9.0000e-005	5.6000e-004		8.4240	8.4240	6.0000e-004		8.4389
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	0.0847	0.0598	0.8031	2.3100e-003	0.2258	1.6900e-003	0.2275	0.0599	1.5600e-003	0.0614		229.9045	229.9045	6.5500e-003		230.0682
Total	0.0855	0.0876	0.8089	2.3900e-003	0.2275	1.7800e-003	0.2293	0.0604	1.6500e-003	0.0620		238.3285	238.3285	7.1500e-003		238.5071

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					8.8600e-003	0.0000	8.8600e-003	1.3400e-003	0.0000	1.3400e-003			0.0000			0.0000
Off-Road	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419	0.0000	3,747.7049	3,747.7049	1.0580		3,774.1536
Total	3.3121	33.2010	21.7532	0.0388	8.8600e-003	1.6587	1.6676	1.3400e-003	1.5419	1.5432	0.0000	3,747.7049	3,747.7049	1.0580		3,774.1536

300 Studebaker Industrial Project - South Coast Air Basin, Summer

3.2 Demolition - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	8.0000e-004	0.0279	5.7900e-003	8.0000e-005	1.7500e-003	9.0000e-005	1.8400e-003	4.8000e-004	9.0000e-005	5.6000e-004		8.4240	8.4240	6.0000e-004		8.4389
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	0.0847	0.0598	0.8031	2.3100e-003	0.2258	1.6900e-003	0.2275	0.0599	1.5600e-003	0.0614		229.9045	229.9045	6.5500e-003		230.0682
Total	0.0855	0.0876	0.8089	2.3900e-003	0.2275	1.7800e-003	0.2293	0.0604	1.6500e-003	0.0620		238.3285	238.3285	7.1500e-003		238.5071

3.3 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216		3,685.1016	3,685.1016	1.1918		3,714.8975
Total	4.0765	42.4173	21.5136	0.0380	18.0663	2.1974	20.2637	9.9307	2.0216	11.9523		3,685.1016	3,685.1016	1.1918		3,714.8975

300 Studebaker Industrial Project - South Coast Air Basin, Summer

3.3 Site Preparation - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.1017	0.0717	0.9637	2.7700e-003	0.2709	2.0300e-003	0.2730	0.0719	1.8700e-003	0.0737		275.8854	275.8854	7.8600e-003		276.0818
Total	0.1017	0.0717	0.9637	2.7700e-003	0.2709	2.0300e-003	0.2730	0.0719	1.8700e-003	0.0737		275.8854	275.8854	7.8600e-003		276.0818

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					8.1298	0.0000	8.1298	4.4688	0.0000	4.4688			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975
Total	4.0765	42.4173	21.5136	0.0380	8.1298	2.1974	10.3272	4.4688	2.0216	6.4904	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975

300 Studebaker Industrial Project - South Coast Air Basin, Summer

3.3 Site Preparation - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.1017	0.0717	0.9637	2.7700e-003	0.2709	2.0300e-003	0.2730	0.0719	1.8700e-003	0.0737		275.8854	275.8854	7.8600e-003		276.0818
Total	0.1017	0.0717	0.9637	2.7700e-003	0.2709	2.0300e-003	0.2730	0.0719	1.8700e-003	0.0737		275.8854	275.8854	7.8600e-003		276.0818

3.4 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.2742	0.0000	6.2742	3.3377	0.0000	3.3377			0.0000			0.0000
Off-Road	2.4288	26.3859	16.0530	0.0297		1.2734	1.2734		1.1716	1.1716		2,872.4851	2,872.4851	0.9290		2,895.7106
Total	2.4288	26.3859	16.0530	0.0297	6.2742	1.2734	7.5477	3.3377	1.1716	4.5092		2,872.4851	2,872.4851	0.9290		2,895.7106

300 Studebaker Industrial Project - South Coast Air Basin, Summer

3.4 Grading - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0485	1.6976	0.3530	4.7300e-003	0.1064	5.4900e-003	0.1119	0.0292	5.2600e-003	0.0344		513.2762	513.2762	0.0363		514.1839
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	0.0847	0.0598	0.8031	2.3100e-003	0.2258	1.6900e-003	0.2275	0.0599	1.5600e-003	0.0614		229.9045	229.9045	6.5500e-003		230.0682
Total	0.1332	1.7574	1.1561	7.0400e-003	0.3322	7.1800e-003	0.3394	0.0890	6.8200e-003	0.0959		743.1807	743.1807	0.0429		744.2521

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					2.8234	0.0000	2.8234	1.5020	0.0000	1.5020			0.0000			0.0000
Off-Road	2.4288	26.3859	16.0530	0.0297		1.2734	1.2734		1.1716	1.1716	0.0000	2,872.4851	2,872.4851	0.9290		2,895.7106
Total	2.4288	26.3859	16.0530	0.0297	2.8234	1.2734	4.0968	1.5020	1.1716	2.6735	0.0000	2,872.4851	2,872.4851	0.9290		2,895.7106

300 Studebaker Industrial Project - South Coast Air Basin, Summer

3.4 Grading - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0485	1.6976	0.3530	4.7300e-003	0.1064	5.4900e-003	0.1119	0.0292	5.2600e-003	0.0344		513.2762	513.2762	0.0363		514.1839
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	0.0847	0.0598	0.8031	2.3100e-003	0.2258	1.6900e-003	0.2275	0.0599	1.5600e-003	0.0614		229.9045	229.9045	6.5500e-003		230.0682
Total	0.1332	1.7574	1.1561	7.0400e-003	0.3322	7.1800e-003	0.3394	0.0890	6.8200e-003	0.0959		743.1807	743.1807	0.0429		744.2521

3.5 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.5722	23.9835	20.6231	0.0326		1.3702	1.3702		1.2832	1.2832		3,101.3866	3,101.3866	0.8002		3,121.3915
Total	2.5722	23.9835	20.6231	0.0326		1.3702	1.3702		1.2832	1.2832		3,101.3866	3,101.3866	0.8002		3,121.3915

300 Studebaker Industrial Project - South Coast Air Basin, Summer

3.5 Building Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.1981	6.1504	1.5068	0.0156	0.4027	0.0326	0.4353	0.1159	0.0312	0.1471		1,670.0627	1,670.0627	0.1023		1,672.6191
Worker	0.7909	0.5580	7.4958	0.0215	2.1073	0.0158	2.1231	0.5588	0.0145	0.5733		2,145.7751	2,145.7751	0.0611		2,147.3031
Total	0.9890	6.7084	9.0025	0.0372	2.5100	0.0484	2.5584	0.6747	0.0457	0.7204		3,815.8377	3,815.8377	0.1634		3,819.9223

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	2.5722	23.9835	20.6231	0.0326		1.3702	1.3702		1.2832	1.2832	0.0000	3,101.3866	3,101.3866	0.8002		3,121.3915
Total	2.5722	23.9835	20.6231	0.0326		1.3702	1.3702		1.2832	1.2832	0.0000	3,101.3866	3,101.3866	0.8002		3,121.3915

300 Studebaker Industrial Project - South Coast Air Basin, Summer

3.5 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.1981	6.1504	1.5068	0.0156	0.4027	0.0326	0.4353	0.1159	0.0312	0.1471		1,670.0627	1,670.0627	0.1023		1,672.6191
Worker	0.7909	0.5580	7.4958	0.0215	2.1073	0.0158	2.1231	0.5588	0.0145	0.5733		2,145.7751	2,145.7751	0.0611		2,147.3031
Total	0.9890	6.7084	9.0025	0.0372	2.5100	0.0484	2.5584	0.6747	0.0457	0.7204		3,815.8377	3,815.8377	0.1634		3,819.9223

3.6 Paving - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3566	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926		2,207.7334	2,207.7334	0.7140		2,225.5841
Paving	0.1088					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.4653	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926		2,207.7334	2,207.7334	0.7140		2,225.5841

300 Studebaker Industrial Project - South Coast Air Basin, Summer

3.6 Paving - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0847	0.0598	0.8031	2.3100e-003	0.2258	1.6900e-003	0.2275	0.0599	1.5600e-003	0.0614		229.9045	229.9045	6.5500e-003		230.0682
Total	0.0847	0.0598	0.8031	2.3100e-003	0.2258	1.6900e-003	0.2275	0.0599	1.5600e-003	0.0614		229.9045	229.9045	6.5500e-003		230.0682

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	1.3566	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926	0.0000	2,207.7334	2,207.7334	0.7140		2,225.5841
Paving	0.1088					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.4653	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926	0.0000	2,207.7334	2,207.7334	0.7140		2,225.5841

300 Studebaker Industrial Project - South Coast Air Basin, Summer

3.6 Paving - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0847	0.0598	0.8031	2.3100e-003	0.2258	1.6900e-003	0.2275	0.0599	1.5600e-003	0.0614		229.9045	229.9045	6.5500e-003		230.0682
Total	0.0847	0.0598	0.8031	2.3100e-003	0.2258	1.6900e-003	0.2275	0.0599	1.5600e-003	0.0614		229.9045	229.9045	6.5500e-003		230.0682

3.7 Architectural Coating - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	15.0731					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928
Total	15.3153	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928

300 Studebaker Industrial Project - South Coast Air Basin, Summer

3.7 Architectural Coating - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.1582	0.1116	1.4992	4.3100e-003	0.4215	3.1500e-003	0.4246	0.1118	2.9000e-003	0.1147		429.1550	429.1550	0.0122		429.4606
Total	0.1582	0.1116	1.4992	4.3100e-003	0.4215	3.1500e-003	0.4246	0.1118	2.9000e-003	0.1147		429.1550	429.1550	0.0122		429.4606

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	15.0731					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109	0.0000	281.4481	281.4481	0.0218		281.9928
Total	15.3153	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109	0.0000	281.4481	281.4481	0.0218		281.9928

300 Studebaker Industrial Project - South Coast Air Basin, Summer

3.7 Architectural Coating - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.1582	0.1116	1.4992	4.3100e-003	0.4215	3.1500e-003	0.4246	0.1118	2.9000e-003	0.1147		429.1550	429.1550	0.0122		429.4606
Total	0.1582	0.1116	1.4992	4.3100e-003	0.4215	3.1500e-003	0.4246	0.1118	2.9000e-003	0.1147		429.1550	429.1550	0.0122		429.4606

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

300 Studebaker Industrial Project - South Coast Air Basin, 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	0.9576	14.1186	12.4099	0.0699	3.9221	0.0599	3.9820	1.0607	0.0567	1.1173		7,293.4489	7,293.4489	0.3633		7,302.5304
Unmitigated	0.9576	14.1186	12.4099	0.0699	3.9221	0.0599	3.9820	1.0607	0.0567	1.1173		7,293.4489	7,293.4489	0.3633		7,302.5304

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
General Light Industry	206.19	206.19	206.19	1,033,934	1,033,934
General Office Building	204.54	51.66	22.05	580,689	580,689
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	410.73	257.85	228.24	1,614,623	1,614,623

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
City Park	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
General Light Industry	18.50	10.10	7.90	59.00	28.00	13.00	92	5	3
General Office Building	18.50	10.10	7.90	33.00	48.00	19.00	77	19	4
Other Asphalt Surfaces	18.50	10.10	7.90	0.00	0.00	0.00	0	0	0
Parking Lot	18.50	10.10	7.90	0.00	0.00	0.00	0	0	0

300 Studebaker Industrial Project - South Coast Air Basin, Summer

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.551391	0.043400	0.201050	0.120272	0.016162	0.005864	0.021029	0.030512	0.002059	0.001866	0.004766	0.000706	0.000924
General Light Industry	0.360547	0.028379	0.131464	0.078644	0.049627	0.018006	0.091788	0.241546	0.000000	0.000000	0.000000	0.000000	0.000000
General Office Building	0.551391	0.043400	0.201050	0.120272	0.016162	0.005864	0.021029	0.030512	0.002059	0.001866	0.004766	0.000706	0.000924
Other Asphalt Surfaces	0.551391	0.043400	0.201050	0.120272	0.016162	0.005864	0.021029	0.030512	0.002059	0.001866	0.004766	0.000706	0.000924
Parking Lot	0.551391	0.043400	0.201050	0.120272	0.016162	0.005864	0.021029	0.030512	0.002059	0.001866	0.004766	0.000706	0.000924

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	0.0787	0.7151	0.6007	4.2900e-003		0.0544	0.0544		0.0544	0.0544		858.1209	858.1209	0.0165	0.0157	863.2203
NaturalGas Unmitigated	0.0787	0.7151	0.6007	4.2900e-003		0.0544	0.0544		0.0544	0.0544		858.1209	858.1209	0.0165	0.0157	863.2203

300 Studebaker Industrial Project - South Coast Air Basin, 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					
City Park	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
General Light Industry	6768.16	0.0730	0.6636	0.5574	3.9800e-003		0.0504	0.0504		0.0504	0.0504		796.2546	796.2546	0.0153	0.0146	800.9864
General Office Building	525.863	5.6700e-003	0.0516	0.0433	3.1000e-004		3.9200e-003	3.9200e-003		3.9200e-003	3.9200e-003		61.8662	61.8662	1.1900e-003	1.1300e-003	62.2339
Other Asphalt Surfaces	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
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		0.0787	0.7151	0.6007	4.2900e-003		0.0544	0.0544		0.0544	0.0544		858.1209	858.1209	0.0165	0.0157	863.2203

300 Studebaker Industrial Project - South Coast Air Basin, Summer

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	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
General Light Industry	6.76816	0.0730	0.6636	0.5574	3.9800e-003		0.0504	0.0504		0.0504	0.0504		796.2546	796.2546	0.0153	0.0146	800.9864
General Office Building	0.525863	5.6700e-003	0.0516	0.0433	3.1000e-004		3.9200e-003	3.9200e-003		3.9200e-003	3.9200e-003		61.8662	61.8662	1.1900e-003	1.1300e-003	62.2339
Other Asphalt Surfaces	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
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		0.0787	0.7151	0.6007	4.2900e-003		0.0544	0.0544		0.0544	0.0544		858.1209	858.1209	0.0165	0.0157	863.2203

6.0 Area Detail

6.1 Mitigation Measures Area

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior

300 Studebaker Industrial Project - South Coast Air Basin, 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	2.9873	2.9000e-004	0.0319	0.0000		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004		0.0681	0.0681	1.8000e-004		0.0727
Unmitigated	2.9873	2.9000e-004	0.0319	0.0000		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004		0.0681	0.0681	1.8000e-004		0.0727

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	0.1817					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.8026					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.9800e-003	2.9000e-004	0.0319	0.0000		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004		0.0681	0.0681	1.8000e-004		0.0727
Total	2.9873	2.9000e-004	0.0319	0.0000		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004		0.0681	0.0681	1.8000e-004		0.0727

300 Studebaker Industrial Project - South Coast Air Basin, 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	0.1817					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.8026					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.9800e-003	2.9000e-004	0.0319	0.0000		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004		0.0681	0.0681	1.8000e-004		0.0727
Total	2.9873	2.9000e-004	0.0319	0.0000		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004		0.0681	0.0681	1.8000e-004		0.0727

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

300 Studebaker Industrial Project - South Coast Air Basin, Summer

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

300 Studebaker Industrial Project - South Coast Air Basin, Winter

300 Studebaker Industrial Project
South Coast Air Basin, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	21.00	1000sqft	0.00	21,000.00	0
General Light Industry	118.50	1000sqft	4.00	118,200.00	0
Other Asphalt Surfaces	2.00	1000sqft	0.04	2,000.00	0
Parking Lot	168.00	Space	2.70	117,612.00	0
City Park	1.81	Acre	1.81	78,843.60	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	8			Operational Year	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

300 Studebaker Industrial Project - South Coast Air Basin, Winter

Project Characteristics -

Land Use - Based on project details and construction questionnaire; City park = western parcels; Other asphalt = sewer line

Construction Phase - Based on construction questionnaire

Off-road Equipment - CARB's OFFROAD2017 Diesel Emission Factor for Other Construction Equipment (<https://ww3.arb.ca.gov/msei/ordiesel.htm>)

)

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - Added scraper per construction questionnaire

Trips and VMT - CalEEMod assumes 262 trips using 16 CY trucks

Demolition - Per construction questionnaire

Grading - Per grading project plans and updated information: 0 cy export, 2095 cy import

Architectural Coating - Compliance with SCAQMD Rule 1113

Vehicle Trips - Per traffic study Table D; Extended weekday trip rate for industry to Sat. and Sun.; Zero out city park trips since western parcels would not generate trips

Area Coating - Per SCAQMD Rule 1113

Construction Off-road Equipment Mitigation - Compliance with SCAQMD Rule 403

Area Mitigation -

Fleet Mix - Fleet mix for Industry use has been updated to reflect passenger vehicle and truck trip generation from project TIA

Off-road Equipment -

Off-road Equipment -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	69,600.00	69,750.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	208,800.00	209,250.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Parking	100.00	50.00

300 Studebaker Industrial Project - South Coast Air Basin, Winter

tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblAreaCoating	Area_EF_Parking	100	50
tblAreaCoating	Area_Nonresidential_Exterior	69600	69750
tblAreaCoating	Area_Nonresidential_Interior	208800	209250
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstructionPhase	NumDays	10.00	22.00
tblConstructionPhase	NumDays	20.00	43.00
tblConstructionPhase	NumDays	230.00	154.00
tblConstructionPhase	NumDays	20.00	66.00
tblConstructionPhase	NumDays	20.00	44.00
tblFleetMix	HHD	0.03	0.24
tblFleetMix	LDA	0.55	0.36
tblFleetMix	LDT1	0.04	0.03
tblFleetMix	LDT2	0.20	0.13
tblFleetMix	LHD1	0.02	0.05
tblFleetMix	LHD2	5.8640e-003	0.02
tblFleetMix	MCY	4.7660e-003	0.00
tblFleetMix	MDV	0.12	0.08
tblFleetMix	MH	9.2400e-004	0.00
tblFleetMix	MHD	0.02	0.09
tblFleetMix	OBUS	2.0590e-003	0.00
tblFleetMix	SBUS	7.0600e-004	0.00
tblFleetMix	UBUS	1.8660e-003	0.00
tblGrading	AcresOfGrading	21.50	10.00
tblGrading	MaterialImported	0.00	2,095.00
tblLandUse	LandUseSquareFeet	118,500.00	118,200.00

300 Studebaker Industrial Project - South Coast Air Basin, Winter

tblLandUse	LandUseSquareFeet	67,200.00	117,612.00
tblLandUse	LotAcreage	0.48	0.00
tblLandUse	LotAcreage	2.72	4.00
tblLandUse	LotAcreage	0.05	0.04
tblLandUse	LotAcreage	1.51	2.70
tblOffRoadEquipment	HorsePower	172.00	140.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblVehicleTrips	CC_TL	10.10	0.00
tblVehicleTrips	CC_TTP	48.00	0.00
tblVehicleTrips	CNW_TL	7.90	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CW_TL	18.50	0.00
tblVehicleTrips	CW_TTP	33.00	0.00
tblVehicleTrips	DV_TP	28.00	0.00
tblVehicleTrips	PB_TP	6.00	0.00
tblVehicleTrips	PR_TP	66.00	0.00
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	1.32	1.74
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	0.68	1.74
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	6.97	1.74
tblVehicleTrips	WD_TR	11.03	9.74

2.0 Emissions Summary

300 Studebaker Industrial Project - South Coast Air Basin, 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	2.9873	2.9000e-004	0.0319	0.0000		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004		0.0681	0.0681	1.8000e-004		0.0727
Energy	0.0787	0.7151	0.6007	4.2900e-003		0.0544	0.0544		0.0544	0.0544		858.1209	858.1209	0.0165	0.0157	863.2203
Mobile	0.9418	14.2990	11.8989	0.0674	3.9221	0.0606	3.9827	1.0607	0.0573	1.1180		7,035.3921	7,035.3921	0.3718		7,044.6867
Total	4.0077	15.0144	12.5315	0.0717	3.9221	0.1151	4.0371	1.0607	0.1118	1.1724		7,893.5811	7,893.5811	0.3884	0.0157	7,907.9796

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	2.9873	2.9000e-004	0.0319	0.0000		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004		0.0681	0.0681	1.8000e-004		0.0727
Energy	0.0787	0.7151	0.6007	4.2900e-003		0.0544	0.0544		0.0544	0.0544		858.1209	858.1209	0.0165	0.0157	863.2203
Mobile	0.9418	14.2990	11.8989	0.0674	3.9221	0.0606	3.9827	1.0607	0.0573	1.1180		7,035.3921	7,035.3921	0.3718		7,044.6867
Total	4.0077	15.0144	12.5315	0.0717	3.9221	0.1151	4.0371	1.0607	0.1118	1.1724		7,893.5811	7,893.5811	0.3884	0.0157	7,907.9796

300 Studebaker Industrial Project - South Coast Air Basin, 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	2/1/2020	2/28/2020	5	20	
2	Site Preparation	Site Preparation	3/2/2020	3/31/2020	5	22	
3	Grading	Grading	4/1/2020	5/29/2020	5	43	
4	Building Construction	Building Construction	6/1/2020	12/31/2020	5	154	
5	Paving	Paving	10/1/2020	12/31/2020	5	66	
6	Architectural Coating	Architectural Coating	11/2/2020	12/31/2020	5	44	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 10

Acres of Paving: 2.74

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 209,250; Non-Residential Outdoor: 69,750; Striped Parking Area: 7,177 (Architectural Coating – sqft)

OffRoad Equipment

300 Studebaker Industrial Project - South Coast Air Basin, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Other Construction Equipment	1	9.00	140	0.42
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

300 Studebaker Industrial Project - South Coast Air Basin, 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
Demolition	6	15.00	0.00	2.00	19.80	7.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	19.80	7.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	262.00	19.80	7.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	10	140.00	55.00	0.00	19.80	7.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	19.80	7.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	28.00	0.00	0.00	19.80	7.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0197	0.0000	0.0197	2.9800e-003	0.0000	2.9800e-003			0.0000			0.0000
Off-Road	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419		3,747.7049	3,747.7049	1.0580		3,774.1536
Total	3.3121	33.2010	21.7532	0.0388	0.0197	1.6587	1.6784	2.9800e-003	1.5419	1.5448		3,747.7049	3,747.7049	1.0580		3,774.1536

300 Studebaker Industrial Project - South Coast Air Basin, Winter

3.2 Demolition - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	8.2000e-004	0.0282	6.1900e-003	8.0000e-005	1.7500e-003	9.0000e-005	1.8400e-003	4.8000e-004	9.0000e-005	5.7000e-004		8.2801	8.2801	6.2000e-004		8.2956
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	0.0944	0.0657	0.7226	2.1600e-003	0.2258	1.6900e-003	0.2275	0.0599	1.5600e-003	0.0614		215.5876	215.5876	6.1100e-003		215.7404
Total	0.0952	0.0939	0.7288	2.2400e-003	0.2275	1.7800e-003	0.2293	0.0604	1.6500e-003	0.0620		223.8677	223.8677	6.7300e-003		224.0360

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					8.8600e-003	0.0000	8.8600e-003	1.3400e-003	0.0000	1.3400e-003			0.0000			0.0000
Off-Road	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419	0.0000	3,747.7049	3,747.7049	1.0580		3,774.1536
Total	3.3121	33.2010	21.7532	0.0388	8.8600e-003	1.6587	1.6676	1.3400e-003	1.5419	1.5432	0.0000	3,747.7049	3,747.7049	1.0580		3,774.1536

300 Studebaker Industrial Project - South Coast Air Basin, Winter

3.2 Demolition - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	8.2000e-004	0.0282	6.1900e-003	8.0000e-005	1.7500e-003	9.0000e-005	1.8400e-003	4.8000e-004	9.0000e-005	5.7000e-004		8.2801	8.2801	6.2000e-004		8.2956
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	0.0944	0.0657	0.7226	2.1600e-003	0.2258	1.6900e-003	0.2275	0.0599	1.5600e-003	0.0614		215.5876	215.5876	6.1100e-003		215.7404
Total	0.0952	0.0939	0.7288	2.2400e-003	0.2275	1.7800e-003	0.2293	0.0604	1.6500e-003	0.0620		223.8677	223.8677	6.7300e-003		224.0360

3.3 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216		3,685.1016	3,685.1016	1.1918		3,714.8975
Total	4.0765	42.4173	21.5136	0.0380	18.0663	2.1974	20.2637	9.9307	2.0216	11.9523		3,685.1016	3,685.1016	1.1918		3,714.8975

300 Studebaker Industrial Project - South Coast Air Basin, Winter

3.3 Site Preparation - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.1132	0.0788	0.8671	2.6000e-003	0.2709	2.0300e-003	0.2730	0.0719	1.8700e-003	0.0737		258.7051	258.7051	7.3400e-003		258.8885
Total	0.1132	0.0788	0.8671	2.6000e-003	0.2709	2.0300e-003	0.2730	0.0719	1.8700e-003	0.0737		258.7051	258.7051	7.3400e-003		258.8885

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					8.1298	0.0000	8.1298	4.4688	0.0000	4.4688			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975
Total	4.0765	42.4173	21.5136	0.0380	8.1298	2.1974	10.3272	4.4688	2.0216	6.4904	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975

300 Studebaker Industrial Project - South Coast Air Basin, Winter

3.3 Site Preparation - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.1132	0.0788	0.8671	2.6000e-003	0.2709	2.0300e-003	0.2730	0.0719	1.8700e-003	0.0737		258.7051	258.7051	7.3400e-003		258.8885
Total	0.1132	0.0788	0.8671	2.6000e-003	0.2709	2.0300e-003	0.2730	0.0719	1.8700e-003	0.0737		258.7051	258.7051	7.3400e-003		258.8885

3.4 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.2742	0.0000	6.2742	3.3377	0.0000	3.3377			0.0000			0.0000
Off-Road	2.4288	26.3859	16.0530	0.0297		1.2734	1.2734		1.1716	1.1716		2,872.4851	2,872.4851	0.9290		2,895.7106
Total	2.4288	26.3859	16.0530	0.0297	6.2742	1.2734	7.5477	3.3377	1.1716	4.5092		2,872.4851	2,872.4851	0.9290		2,895.7106

300 Studebaker Industrial Project - South Coast Air Basin, Winter

3.4 Grading - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0498	1.7198	0.3770	4.6500e-003	0.1064	5.5800e-003	0.1120	0.0292	5.3400e-003	0.0345		504.5100	504.5100	0.0377		505.4526
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	0.0944	0.0657	0.7226	2.1600e-003	0.2258	1.6900e-003	0.2275	0.0599	1.5600e-003	0.0614		215.5876	215.5876	6.1100e-003		215.7404
Total	0.1441	1.7855	1.0996	6.8100e-003	0.3322	7.2700e-003	0.3395	0.0890	6.9000e-003	0.0959		720.0976	720.0976	0.0438		721.1930

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					2.8234	0.0000	2.8234	1.5020	0.0000	1.5020			0.0000			0.0000
Off-Road	2.4288	26.3859	16.0530	0.0297		1.2734	1.2734		1.1716	1.1716	0.0000	2,872.4851	2,872.4851	0.9290		2,895.7106
Total	2.4288	26.3859	16.0530	0.0297	2.8234	1.2734	4.0968	1.5020	1.1716	2.6735	0.0000	2,872.4851	2,872.4851	0.9290		2,895.7106

300 Studebaker Industrial Project - South Coast Air Basin, Winter

3.4 Grading - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0498	1.7198	0.3770	4.6500e-003	0.1064	5.5800e-003	0.1120	0.0292	5.3400e-003	0.0345		504.5100	504.5100	0.0377		505.4526
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	0.0944	0.0657	0.7226	2.1600e-003	0.2258	1.6900e-003	0.2275	0.0599	1.5600e-003	0.0614		215.5876	215.5876	6.1100e-003		215.7404
Total	0.1441	1.7855	1.0996	6.8100e-003	0.3322	7.2700e-003	0.3395	0.0890	6.9000e-003	0.0959		720.0976	720.0976	0.0438		721.1930

3.5 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.5722	23.9835	20.6231	0.0326		1.3702	1.3702		1.2832	1.2832		3,101.3866	3,101.3866	0.8002		3,121.3915
Total	2.5722	23.9835	20.6231	0.0326		1.3702	1.3702		1.2832	1.2832		3,101.3866	3,101.3866	0.8002		3,121.3915

300 Studebaker Industrial Project - South Coast Air Basin, Winter

3.5 Building Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.2066	6.1628	1.6582	0.0153	0.4027	0.0330	0.4358	0.1159	0.0316	0.1475		1,629.2861	1,629.2861	0.1089		1,632.0074
Worker	0.8807	0.6130	6.7443	0.0202	2.1073	0.0158	2.1231	0.5588	0.0145	0.5733		2,012.1505	2,012.1505	0.0571		2,013.5769
Total	1.0872	6.7758	8.4025	0.0354	2.5100	0.0488	2.5588	0.6747	0.0461	0.7209		3,641.4366	3,641.4366	0.1659		3,645.5843

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	2.5722	23.9835	20.6231	0.0326		1.3702	1.3702		1.2832	1.2832	0.0000	3,101.3866	3,101.3866	0.8002		3,121.3915
Total	2.5722	23.9835	20.6231	0.0326		1.3702	1.3702		1.2832	1.2832	0.0000	3,101.3866	3,101.3866	0.8002		3,121.3915

300 Studebaker Industrial Project - South Coast Air Basin, Winter

3.5 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.2066	6.1628	1.6582	0.0153	0.4027	0.0330	0.4358	0.1159	0.0316	0.1475		1,629.286 1	1,629.286 1	0.1089		1,632.007 4
Worker	0.8807	0.6130	6.7443	0.0202	2.1073	0.0158	2.1231	0.5588	0.0145	0.5733		2,012.150 5	2,012.150 5	0.0571		2,013.576 9
Total	1.0872	6.7758	8.4025	0.0354	2.5100	0.0488	2.5588	0.6747	0.0461	0.7209		3,641.436 6	3,641.436 6	0.1659		3,645.584 3

3.6 Paving - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3566	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926		2,207.733 4	2,207.733 4	0.7140		2,225.584 1
Paving	0.1088					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.4653	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926		2,207.733 4	2,207.733 4	0.7140		2,225.584 1

300 Studebaker Industrial Project - South Coast Air Basin, Winter

3.6 Paving - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0944	0.0657	0.7226	2.1600e-003	0.2258	1.6900e-003	0.2275	0.0599	1.5600e-003	0.0614		215.5876	215.5876	6.1100e-003		215.7404
Total	0.0944	0.0657	0.7226	2.1600e-003	0.2258	1.6900e-003	0.2275	0.0599	1.5600e-003	0.0614		215.5876	215.5876	6.1100e-003		215.7404

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	1.3566	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926	0.0000	2,207.7334	2,207.7334	0.7140		2,225.5841
Paving	0.1088					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.4653	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926	0.0000	2,207.7334	2,207.7334	0.7140		2,225.5841

300 Studebaker Industrial Project - South Coast Air Basin, Winter

3.6 Paving - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0944	0.0657	0.7226	2.1600e-003	0.2258	1.6900e-003	0.2275	0.0599	1.5600e-003	0.0614		215.5876	215.5876	6.1100e-003		215.7404
Total	0.0944	0.0657	0.7226	2.1600e-003	0.2258	1.6900e-003	0.2275	0.0599	1.5600e-003	0.0614		215.5876	215.5876	6.1100e-003		215.7404

3.7 Architectural Coating - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	15.0731					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928
Total	15.3153	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928

300 Studebaker Industrial Project - South Coast Air Basin, Winter

3.7 Architectural Coating - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.1761	0.1226	1.3489	4.0400e-003	0.4215	3.1500e-003	0.4246	0.1118	2.9000e-003	0.1147		402.4301	402.4301	0.0114		402.7154
Total	0.1761	0.1226	1.3489	4.0400e-003	0.4215	3.1500e-003	0.4246	0.1118	2.9000e-003	0.1147		402.4301	402.4301	0.0114		402.7154

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	15.0731					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109	0.0000	281.4481	281.4481	0.0218		281.9928
Total	15.3153	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109	0.0000	281.4481	281.4481	0.0218		281.9928

300 Studebaker Industrial Project - South Coast Air Basin, Winter

3.7 Architectural Coating - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.1761	0.1226	1.3489	4.0400e-003	0.4215	3.1500e-003	0.4246	0.1118	2.9000e-003	0.1147		402.4301	402.4301	0.0114		402.7154
Total	0.1761	0.1226	1.3489	4.0400e-003	0.4215	3.1500e-003	0.4246	0.1118	2.9000e-003	0.1147		402.4301	402.4301	0.0114		402.7154

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

300 Studebaker Industrial Project - South Coast Air Basin, 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	0.9418	14.2990	11.8989	0.0674	3.9221	0.0606	3.9827	1.0607	0.0573	1.1180		7,035.392 1	7,035.392 1	0.3718		7,044.686 7
Unmitigated	0.9418	14.2990	11.8989	0.0674	3.9221	0.0606	3.9827	1.0607	0.0573	1.1180		7,035.392 1	7,035.392 1	0.3718		7,044.686 7

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
General Light Industry	206.19	206.19	206.19	1,033,934	1,033,934
General Office Building	204.54	51.66	22.05	580,689	580,689
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	410.73	257.85	228.24	1,614,623	1,614,623

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
City Park	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
General Light Industry	18.50	10.10	7.90	59.00	28.00	13.00	92	5	3
General Office Building	18.50	10.10	7.90	33.00	48.00	19.00	77	19	4
Other Asphalt Surfaces	18.50	10.10	7.90	0.00	0.00	0.00	0	0	0
Parking Lot	18.50	10.10	7.90	0.00	0.00	0.00	0	0	0

300 Studebaker Industrial Project - South Coast Air Basin, Winter

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.551391	0.043400	0.201050	0.120272	0.016162	0.005864	0.021029	0.030512	0.002059	0.001866	0.004766	0.000706	0.000924
General Light Industry	0.360547	0.028379	0.131464	0.078644	0.049627	0.018006	0.091788	0.241546	0.000000	0.000000	0.000000	0.000000	0.000000
General Office Building	0.551391	0.043400	0.201050	0.120272	0.016162	0.005864	0.021029	0.030512	0.002059	0.001866	0.004766	0.000706	0.000924
Other Asphalt Surfaces	0.551391	0.043400	0.201050	0.120272	0.016162	0.005864	0.021029	0.030512	0.002059	0.001866	0.004766	0.000706	0.000924
Parking Lot	0.551391	0.043400	0.201050	0.120272	0.016162	0.005864	0.021029	0.030512	0.002059	0.001866	0.004766	0.000706	0.000924

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	0.0787	0.7151	0.6007	4.2900e-003		0.0544	0.0544		0.0544	0.0544		858.1209	858.1209	0.0165	0.0157	863.2203
NaturalGas Unmitigated	0.0787	0.7151	0.6007	4.2900e-003		0.0544	0.0544		0.0544	0.0544		858.1209	858.1209	0.0165	0.0157	863.2203

300 Studebaker Industrial Project - South Coast Air Basin, Winter

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	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
General Light Industry	6768.16	0.0730	0.6636	0.5574	3.9800e-003		0.0504	0.0504		0.0504	0.0504		796.2546	796.2546	0.0153	0.0146	800.9864
General Office Building	525.863	5.6700e-003	0.0516	0.0433	3.1000e-004		3.9200e-003	3.9200e-003		3.9200e-003	3.9200e-003		61.8662	61.8662	1.1900e-003	1.1300e-003	62.2339
Other Asphalt Surfaces	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
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		0.0787	0.7151	0.6007	4.2900e-003		0.0544	0.0544		0.0544	0.0544		858.1209	858.1209	0.0165	0.0157	863.2203

300 Studebaker Industrial Project - South Coast Air Basin, Winter

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	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
General Light Industry	6.76816	0.0730	0.6636	0.5574	3.9800e-003		0.0504	0.0504		0.0504	0.0504		796.2546	796.2546	0.0153	0.0146	800.9864
General Office Building	0.525863	5.6700e-003	0.0516	0.0433	3.1000e-004		3.9200e-003	3.9200e-003		3.9200e-003	3.9200e-003		61.8662	61.8662	1.1900e-003	1.1300e-003	62.2339
Other Asphalt Surfaces	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
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		0.0787	0.7151	0.6007	4.2900e-003		0.0544	0.0544		0.0544	0.0544		858.1209	858.1209	0.0165	0.0157	863.2203

6.0 Area Detail

6.1 Mitigation Measures Area

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior

300 Studebaker Industrial Project - South Coast Air Basin, 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	2.9873	2.9000e-004	0.0319	0.0000		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004		0.0681	0.0681	1.8000e-004		0.0727
Unmitigated	2.9873	2.9000e-004	0.0319	0.0000		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004		0.0681	0.0681	1.8000e-004		0.0727

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	0.1817					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.8026					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.9800e-003	2.9000e-004	0.0319	0.0000		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004		0.0681	0.0681	1.8000e-004		0.0727
Total	2.9873	2.9000e-004	0.0319	0.0000		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004		0.0681	0.0681	1.8000e-004		0.0727

300 Studebaker Industrial Project - South Coast Air Basin, 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	0.1817					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.8026					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.9800e-003	2.9000e-004	0.0319	0.0000		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004		0.0681	0.0681	1.8000e-004		0.0727
Total	2.9873	2.9000e-004	0.0319	0.0000		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004		0.0681	0.0681	1.8000e-004		0.0727

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

300 Studebaker Industrial Project - South Coast Air Basin, Winter

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

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

Equipment Type	Number
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11.0 Vegetation

300 Studebaker Industrial Project - South Coast Air Basin, Annual

300 Studebaker Industrial Project

South Coast Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	21.00	1000sqft	0.00	21,000.00	0
General Light Industry	118.50	1000sqft	4.00	118,200.00	0
Other Asphalt Surfaces	2.00	1000sqft	0.04	2,000.00	0
Parking Lot	168.00	Space	2.70	117,612.00	0
City Park	1.81	Acre	1.81	78,843.60	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	8			Operational Year	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

300 Studebaker Industrial Project - South Coast Air Basin, Annual

Project Characteristics -

Land Use - Based on project details and construction questionnaire; City park = western parcels; Other asphalt = sewer line

Construction Phase - Based on construction questionnaire

Off-road Equipment - CARB's OFFROAD2017 Diesel Emission Factor for Other Construction Equipment (<https://ww3.arb.ca.gov/msei/ordiesel.htm>)

)

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - Added scraper per construction questionnaire

Trips and VMT - CalEEMod assumes 262 trips using 16 CY trucks

Demolition - Per construction questionnaire

Grading - Per grading project plans and updated information: 0 cy export, 2095 cy import

Architectural Coating - Compliance with SCAQMD Rule 1113

Vehicle Trips - Per traffic study Table D; Extended weekday trip rate for industry to Sat. and Sun.; Zero out city park trips since western parcels would not generate trips

Area Coating - Per SCAQMD Rule 1113

Construction Off-road Equipment Mitigation - Compliance with SCAQMD Rule 403

Area Mitigation -

Fleet Mix - Fleet mix for Industry use has been updated to reflect passenger vehicle and truck trip generation from project TIA

Off-road Equipment -

Off-road Equipment -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	69,600.00	69,750.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	208,800.00	209,250.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Parking	100.00	50.00

300 Studebaker Industrial Project - South Coast Air Basin, Annual

tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblAreaCoating	Area_EF_Parking	100	50
tblAreaCoating	Area_Nonresidential_Exterior	69600	69750
tblAreaCoating	Area_Nonresidential_Interior	208800	209250
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstructionPhase	NumDays	10.00	22.00
tblConstructionPhase	NumDays	20.00	43.00
tblConstructionPhase	NumDays	230.00	154.00
tblConstructionPhase	NumDays	20.00	66.00
tblConstructionPhase	NumDays	20.00	44.00
tblFleetMix	HHD	0.03	0.24
tblFleetMix	LDA	0.55	0.36
tblFleetMix	LDT1	0.04	0.03
tblFleetMix	LDT2	0.20	0.13
tblFleetMix	LHD1	0.02	0.05
tblFleetMix	LHD2	5.8640e-003	0.02
tblFleetMix	MCY	4.7660e-003	0.00
tblFleetMix	MDV	0.12	0.08
tblFleetMix	MH	9.2400e-004	0.00
tblFleetMix	MHD	0.02	0.09
tblFleetMix	OBUS	2.0590e-003	0.00
tblFleetMix	SBUS	7.0600e-004	0.00
tblFleetMix	UBUS	1.8660e-003	0.00
tblGrading	AcresOfGrading	21.50	10.00
tblGrading	MaterialImported	0.00	2,095.00
tblLandUse	LandUseSquareFeet	118,500.00	118,200.00

300 Studebaker Industrial Project - South Coast Air Basin, Annual

tblLandUse	LandUseSquareFeet	67,200.00	117,612.00
tblLandUse	LotAcreage	0.48	0.00
tblLandUse	LotAcreage	2.72	4.00
tblLandUse	LotAcreage	0.05	0.04
tblLandUse	LotAcreage	1.51	2.70
tblOffRoadEquipment	HorsePower	172.00	140.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblVehicleTrips	CC_TL	10.10	0.00
tblVehicleTrips	CC_TTP	48.00	0.00
tblVehicleTrips	CNW_TL	7.90	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CW_TL	18.50	0.00
tblVehicleTrips	CW_TTP	33.00	0.00
tblVehicleTrips	DV_TP	28.00	0.00
tblVehicleTrips	PB_TP	6.00	0.00
tblVehicleTrips	PR_TP	66.00	0.00
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	1.32	1.74
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	0.68	1.74
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	6.97	1.74
tblVehicleTrips	WD_TR	11.03	9.74

2.0 Emissions Summary

300 Studebaker Industrial Project - South Coast Air Basin, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	2-3-2020	5-2-2020	1.1919	1.1919
2	5-3-2020	8-2-2020	1.0668	1.0668
3	8-3-2020	9-30-2020	0.7218	0.7218
		Highest	1.1919	1.1919

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	0.5450	4.0000e-005	3.9900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.7300e-003	7.7300e-003	2.0000e-005	0.0000	8.2400e-003
Energy	0.0144	0.1305	0.1096	7.8000e-004		9.9200e-003	9.9200e-003		9.9200e-003	9.9200e-003	0.0000	567.0310	567.0310	0.0203	6.2300e-003	569.3956
Mobile	0.1522	2.5630	1.9530	0.0116	0.6338	0.0103	0.6441	0.1719	9.7300e-003	0.1816	0.0000	1,099.8447	1,099.8447	0.0567	0.0000	1,101.2615
Waste						0.0000	0.0000		0.0000	0.0000	33.8244	0.0000	33.8244	1.9990	0.0000	83.7985
Water						0.0000	0.0000		0.0000	0.0000	9.8779	144.9061	154.7839	1.0205	0.0252	187.8050
Total	0.7116	2.6936	2.0667	0.0124	0.6338	0.0202	0.6540	0.1719	0.0197	0.1915	43.7023	1,811.7895	1,855.4918	3.0965	0.0314	1,942.2687

300 Studebaker Industrial Project - South Coast Air Basin, Annual

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	0.5450	4.0000e-005	3.9900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.7300e-003	7.7300e-003	2.0000e-005	0.0000	8.2400e-003
Energy	0.0144	0.1305	0.1096	7.8000e-004		9.9200e-003	9.9200e-003		9.9200e-003	9.9200e-003	0.0000	567.0310	567.0310	0.0203	6.2300e-003	569.3956
Mobile	0.1522	2.5630	1.9530	0.0116	0.6338	0.0103	0.6441	0.1719	9.7300e-003	0.1816	0.0000	1,099.8447	1,099.8447	0.0567	0.0000	1,101.2615
Waste						0.0000	0.0000		0.0000	0.0000	33.8244	0.0000	33.8244	1.9990	0.0000	83.7985
Water						0.0000	0.0000		0.0000	0.0000	9.8779	144.9061	154.7839	1.0205	0.0252	187.8050
Total	0.7116	2.6936	2.0667	0.0124	0.6338	0.0202	0.6540	0.1719	0.0197	0.1915	43.7023	1,811.7895	1,855.4918	3.0965	0.0314	1,942.2687

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

300 Studebaker Industrial Project - South Coast Air Basin, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	2/1/2020	2/28/2020	5	20	
2	Site Preparation	Site Preparation	3/2/2020	3/31/2020	5	22	
3	Grading	Grading	4/1/2020	5/29/2020	5	43	
4	Building Construction	Building Construction	6/1/2020	12/31/2020	5	154	
5	Paving	Paving	10/1/2020	12/31/2020	5	66	
6	Architectural Coating	Architectural Coating	11/2/2020	12/31/2020	5	44	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 10

Acres of Paving: 2.74

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 209,250; Non-Residential Outdoor: 69,750; Striped Parking Area: 7,177 (Architectural Coating – sqft)

OffRoad Equipment

300 Studebaker Industrial Project - South Coast Air Basin, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Other Construction Equipment	1	9.00	140	0.42
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

300 Studebaker Industrial Project - South Coast Air Basin, Annual

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	2.00	19.80	7.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	19.80	7.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	262.00	19.80	7.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	10	140.00	55.00	0.00	19.80	7.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	19.80	7.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	28.00	0.00	0.00	19.80	7.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.0000e-004	0.0000	2.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0331	0.3320	0.2175	3.9000e-004		0.0166	0.0166		0.0154	0.0154	0.0000	33.9986	33.9986	9.6000e-003	0.0000	34.2386
Total	0.0331	0.3320	0.2175	3.9000e-004	2.0000e-004	0.0166	0.0168	3.0000e-005	0.0154	0.0155	0.0000	33.9986	33.9986	9.6000e-003	0.0000	34.2386

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3.2 Demolition - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	2.9000e-004	6.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	1.0000e-005	0.0000	0.0759	0.0759	1.0000e-005	0.0000	0.0760
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.5000e-004	6.8000e-004	7.4300e-003	2.0000e-005	2.2200e-003	2.0000e-005	2.2300e-003	5.9000e-004	2.0000e-005	6.0000e-004	0.0000	1.9868	1.9868	6.0000e-005	0.0000	1.9882
Total	8.6000e-004	9.7000e-004	7.4900e-003	2.0000e-005	2.2400e-003	2.0000e-005	2.2500e-003	5.9000e-004	2.0000e-005	6.1000e-004	0.0000	2.0626	2.0626	7.0000e-005	0.0000	2.0642

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					9.0000e-005	0.0000	9.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0331	0.3320	0.2175	3.9000e-004		0.0166	0.0166		0.0154	0.0154	0.0000	33.9986	33.9986	9.6000e-003	0.0000	34.2385
Total	0.0331	0.3320	0.2175	3.9000e-004	9.0000e-005	0.0166	0.0167	1.0000e-005	0.0154	0.0154	0.0000	33.9986	33.9986	9.6000e-003	0.0000	34.2385

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3.2 Demolition - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	2.9000e-004	6.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	1.0000e-005	0.0000	0.0759	0.0759	1.0000e-005	0.0000	0.0760
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.5000e-004	6.8000e-004	7.4300e-003	2.0000e-005	2.2200e-003	2.0000e-005	2.2300e-003	5.9000e-004	2.0000e-005	6.0000e-004	0.0000	1.9868	1.9868	6.0000e-005	0.0000	1.9882
Total	8.6000e-004	9.7000e-004	7.4900e-003	2.0000e-005	2.2400e-003	2.0000e-005	2.2500e-003	5.9000e-004	2.0000e-005	6.1000e-004	0.0000	2.0626	2.0626	7.0000e-005	0.0000	2.0642

3.3 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1987	0.0000	0.1987	0.1092	0.0000	0.1092	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0448	0.4666	0.2367	4.2000e-004		0.0242	0.0242		0.0222	0.0222	0.0000	36.7738	36.7738	0.0119	0.0000	37.0711
Total	0.0448	0.4666	0.2367	4.2000e-004	0.1987	0.0242	0.2229	0.1092	0.0222	0.1315	0.0000	36.7738	36.7738	0.0119	0.0000	37.0711

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3.3 Site Preparation - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1200e-003	8.9000e-004	9.8100e-003	3.0000e-005	2.9300e-003	2.0000e-005	2.9500e-003	7.8000e-004	2.0000e-005	8.0000e-004	0.0000	2.6225	2.6225	7.0000e-005	0.0000	2.6244
Total	1.1200e-003	8.9000e-004	9.8100e-003	3.0000e-005	2.9300e-003	2.0000e-005	2.9500e-003	7.8000e-004	2.0000e-005	8.0000e-004	0.0000	2.6225	2.6225	7.0000e-005	0.0000	2.6244

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					0.0894	0.0000	0.0894	0.0492	0.0000	0.0492	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0448	0.4666	0.2367	4.2000e-004		0.0242	0.0242		0.0222	0.0222	0.0000	36.7737	36.7737	0.0119	0.0000	37.0710
Total	0.0448	0.4666	0.2367	4.2000e-004	0.0894	0.0242	0.1136	0.0492	0.0222	0.0714	0.0000	36.7737	36.7737	0.0119	0.0000	37.0710

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3.3 Site Preparation - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1200e-003	8.9000e-004	9.8100e-003	3.0000e-005	2.9300e-003	2.0000e-005	2.9500e-003	7.8000e-004	2.0000e-005	8.0000e-004	0.0000	2.6225	2.6225	7.0000e-005	0.0000	2.6244
Total	1.1200e-003	8.9000e-004	9.8100e-003	3.0000e-005	2.9300e-003	2.0000e-005	2.9500e-003	7.8000e-004	2.0000e-005	8.0000e-004	0.0000	2.6225	2.6225	7.0000e-005	0.0000	2.6244

3.4 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1349	0.0000	0.1349	0.0718	0.0000	0.0718	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0522	0.5673	0.3451	6.4000e-004		0.0274	0.0274		0.0252	0.0252	0.0000	56.0263	56.0263	0.0181	0.0000	56.4793
Total	0.0522	0.5673	0.3451	6.4000e-004	0.1349	0.0274	0.1623	0.0718	0.0252	0.0970	0.0000	56.0263	56.0263	0.0181	0.0000	56.4793

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3.4 Grading - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0500e-003	0.0377	7.8200e-003	1.0000e-004	2.2500e-003	1.2000e-004	2.3700e-003	6.2000e-004	1.1000e-004	7.3000e-004	0.0000	9.9394	9.9394	7.2000e-004	0.0000	9.9574
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	1.8200e-003	1.4500e-003	0.0160	5.0000e-005	4.7600e-003	4.0000e-005	4.8000e-003	1.2700e-003	3.0000e-005	1.3000e-003	0.0000	4.2715	4.2715	1.2000e-004	0.0000	4.2745
Total	2.8700e-003	0.0391	0.0238	1.5000e-004	7.0100e-003	1.6000e-004	7.1700e-003	1.8900e-003	1.4000e-004	2.0300e-003	0.0000	14.2109	14.2109	8.4000e-004	0.0000	14.2319

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					0.0607	0.0000	0.0607	0.0323	0.0000	0.0323	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0522	0.5673	0.3451	6.4000e-004		0.0274	0.0274		0.0252	0.0252	0.0000	56.0262	56.0262	0.0181	0.0000	56.4792
Total	0.0522	0.5673	0.3451	6.4000e-004	0.0607	0.0274	0.0881	0.0323	0.0252	0.0575	0.0000	56.0262	56.0262	0.0181	0.0000	56.4792

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3.4 Grading - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0500e-003	0.0377	7.8200e-003	1.0000e-004	2.2500e-003	1.2000e-004	2.3700e-003	6.2000e-004	1.1000e-004	7.3000e-004	0.0000	9.9394	9.9394	7.2000e-004	0.0000	9.9574
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	1.8200e-003	1.4500e-003	0.0160	5.0000e-005	4.7600e-003	4.0000e-005	4.8000e-003	1.2700e-003	3.0000e-005	1.3000e-003	0.0000	4.2715	4.2715	1.2000e-004	0.0000	4.2745
Total	2.8700e-003	0.0391	0.0238	1.5000e-004	7.0100e-003	1.6000e-004	7.1700e-003	1.8900e-003	1.4000e-004	2.0300e-003	0.0000	14.2109	14.2109	8.4000e-004	0.0000	14.2319

3.5 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1981	1.8467	1.5880	2.5100e-003		0.1055	0.1055		0.0988	0.0988	0.0000	216.6419	216.6419	0.0559	0.0000	218.0393
Total	0.1981	1.8467	1.5880	2.5100e-003		0.1055	0.1055		0.0988	0.0988	0.0000	216.6419	216.6419	0.0559	0.0000	218.0393

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3.5 Building Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0155	0.4833	0.1220	1.1900e-003	0.0305	2.5200e-003	0.0331	8.8100e-003	2.4100e-003	0.0112	0.0000	115.4630	115.4630	7.3500e-003	0.0000	115.6467
Worker	0.0610	0.0486	0.5339	1.5800e-003	0.1593	1.2100e-003	0.1605	0.0423	1.1200e-003	0.0434	0.0000	142.7809	142.7809	4.0500e-003	0.0000	142.8822
Total	0.0765	0.5319	0.6559	2.7700e-003	0.1898	3.7300e-003	0.1936	0.0511	3.5300e-003	0.0546	0.0000	258.2439	258.2439	0.0114	0.0000	258.5289

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	0.1981	1.8467	1.5880	2.5100e-003		0.1055	0.1055		0.0988	0.0988	0.0000	216.6416	216.6416	0.0559	0.0000	218.0390
Total	0.1981	1.8467	1.5880	2.5100e-003		0.1055	0.1055		0.0988	0.0988	0.0000	216.6416	216.6416	0.0559	0.0000	218.0390

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3.5 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0155	0.4833	0.1220	1.1900e-003	0.0305	2.5200e-003	0.0331	8.8100e-003	2.4100e-003	0.0112	0.0000	115.4630	115.4630	7.3500e-003	0.0000	115.6467
Worker	0.0610	0.0486	0.5339	1.5800e-003	0.1593	1.2100e-003	0.1605	0.0423	1.1200e-003	0.0434	0.0000	142.7809	142.7809	4.0500e-003	0.0000	142.8822
Total	0.0765	0.5319	0.6559	2.7700e-003	0.1898	3.7300e-003	0.1936	0.0511	3.5300e-003	0.0546	0.0000	258.2439	258.2439	0.0114	0.0000	258.5289

3.6 Paving - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0448	0.4642	0.4835	7.5000e-004		0.0248	0.0248		0.0229	0.0229	0.0000	66.0931	66.0931	0.0214	0.0000	66.6275
Paving	3.5900e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0484	0.4642	0.4835	7.5000e-004		0.0248	0.0248		0.0229	0.0229	0.0000	66.0931	66.0931	0.0214	0.0000	66.6275

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3.6 Paving - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.8000e-003	2.2300e-003	0.0245	7.0000e-005	7.3100e-003	6.0000e-005	7.3700e-003	1.9400e-003	5.0000e-005	1.9900e-003	0.0000	6.5563	6.5563	1.9000e-004	0.0000	6.5609
Total	2.8000e-003	2.2300e-003	0.0245	7.0000e-005	7.3100e-003	6.0000e-005	7.3700e-003	1.9400e-003	5.0000e-005	1.9900e-003	0.0000	6.5563	6.5563	1.9000e-004	0.0000	6.5609

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	0.0448	0.4642	0.4835	7.5000e-004		0.0248	0.0248		0.0229	0.0229	0.0000	66.0931	66.0931	0.0214	0.0000	66.6275
Paving	3.5900e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0484	0.4642	0.4835	7.5000e-004		0.0248	0.0248		0.0229	0.0229	0.0000	66.0931	66.0931	0.0214	0.0000	66.6275

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3.6 Paving - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.8000e-003	2.2300e-003	0.0245	7.0000e-005	7.3100e-003	6.0000e-005	7.3700e-003	1.9400e-003	5.0000e-005	1.9900e-003	0.0000	6.5563	6.5563	1.9000e-004	0.0000	6.5609
Total	2.8000e-003	2.2300e-003	0.0245	7.0000e-005	7.3100e-003	6.0000e-005	7.3700e-003	1.9400e-003	5.0000e-005	1.9900e-003	0.0000	6.5563	6.5563	1.9000e-004	0.0000	6.5609

3.7 Architectural Coating - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3316					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.3300e-003	0.0370	0.0403	7.0000e-005		2.4400e-003	2.4400e-003		2.4400e-003	2.4400e-003	0.0000	5.6172	5.6172	4.3000e-004	0.0000	5.6280
Total	0.3369	0.0370	0.0403	7.0000e-005		2.4400e-003	2.4400e-003		2.4400e-003	2.4400e-003	0.0000	5.6172	5.6172	4.3000e-004	0.0000	5.6280

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3.7 Architectural Coating - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.4800e-003	2.7800e-003	0.0305	9.0000e-005	9.1000e-003	7.0000e-005	9.1700e-003	2.4200e-003	6.0000e-005	2.4800e-003	0.0000	8.1589	8.1589	2.3000e-004	0.0000	8.1647
Total	3.4800e-003	2.7800e-003	0.0305	9.0000e-005	9.1000e-003	7.0000e-005	9.1700e-003	2.4200e-003	6.0000e-005	2.4800e-003	0.0000	8.1589	8.1589	2.3000e-004	0.0000	8.1647

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	0.3316					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.3300e-003	0.0370	0.0403	7.0000e-005		2.4400e-003	2.4400e-003		2.4400e-003	2.4400e-003	0.0000	5.6172	5.6172	4.3000e-004	0.0000	5.6280
Total	0.3369	0.0370	0.0403	7.0000e-005		2.4400e-003	2.4400e-003		2.4400e-003	2.4400e-003	0.0000	5.6172	5.6172	4.3000e-004	0.0000	5.6280

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3.7 Architectural Coating - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.4800e-003	2.7800e-003	0.0305	9.0000e-005	9.1000e-003	7.0000e-005	9.1700e-003	2.4200e-003	6.0000e-005	2.4800e-003	0.0000	8.1589	8.1589	2.3000e-004	0.0000	8.1647
Total	3.4800e-003	2.7800e-003	0.0305	9.0000e-005	9.1000e-003	7.0000e-005	9.1700e-003	2.4200e-003	6.0000e-005	2.4800e-003	0.0000	8.1589	8.1589	2.3000e-004	0.0000	8.1647

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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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	0.1522	2.5630	1.9530	0.0116	0.6338	0.0103	0.6441	0.1719	9.7300e-003	0.1816	0.0000	1,099.8447	1,099.8447	0.0567	0.0000	1,101.2615
Unmitigated	0.1522	2.5630	1.9530	0.0116	0.6338	0.0103	0.6441	0.1719	9.7300e-003	0.1816	0.0000	1,099.8447	1,099.8447	0.0567	0.0000	1,101.2615

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
General Light Industry	206.19	206.19	206.19	1,033,934	1,033,934
General Office Building	204.54	51.66	22.05	580,689	580,689
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	410.73	257.85	228.24	1,614,623	1,614,623

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
City Park	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
General Light Industry	18.50	10.10	7.90	59.00	28.00	13.00	92	5	3
General Office Building	18.50	10.10	7.90	33.00	48.00	19.00	77	19	4
Other Asphalt Surfaces	18.50	10.10	7.90	0.00	0.00	0.00	0	0	0
Parking Lot	18.50	10.10	7.90	0.00	0.00	0.00	0	0	0

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4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.551391	0.043400	0.201050	0.120272	0.016162	0.005864	0.021029	0.030512	0.002059	0.001866	0.004766	0.000706	0.000924
General Light Industry	0.360547	0.028379	0.131464	0.078644	0.049627	0.018006	0.091788	0.241546	0.000000	0.000000	0.000000	0.000000	0.000000
General Office Building	0.551391	0.043400	0.201050	0.120272	0.016162	0.005864	0.021029	0.030512	0.002059	0.001866	0.004766	0.000706	0.000924
Other Asphalt Surfaces	0.551391	0.043400	0.201050	0.120272	0.016162	0.005864	0.021029	0.030512	0.002059	0.001866	0.004766	0.000706	0.000924
Parking Lot	0.551391	0.043400	0.201050	0.120272	0.016162	0.005864	0.021029	0.030512	0.002059	0.001866	0.004766	0.000706	0.000924

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	424.9595	424.9595	0.0175	3.6300e-003	426.4798
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	424.9595	424.9595	0.0175	3.6300e-003	426.4798
NaturalGas Mitigated	0.0144	0.1305	0.1096	7.8000e-004		9.9200e-003	9.9200e-003		9.9200e-003	9.9200e-003	0.0000	142.0715	142.0715	2.7200e-003	2.6000e-003	142.9158
NaturalGas Unmitigated	0.0144	0.1305	0.1096	7.8000e-004		9.9200e-003	9.9200e-003		9.9200e-003	9.9200e-003	0.0000	142.0715	142.0715	2.7200e-003	2.6000e-003	142.9158

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5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
City Park	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
General Light Industry	2.47038e+006	0.0133	0.1211	0.1017	7.3000e-004		9.2000e-003	9.2000e-003		9.2000e-003	9.2000e-003	0.0000	131.8289	131.8289	2.5300e-003	2.4200e-003	132.6123
General Office Building	191940	1.0300e-003	9.4100e-003	7.9000e-003	6.0000e-005		7.2000e-004	7.2000e-004		7.2000e-004	7.2000e-004	0.0000	10.2427	10.2427	2.0000e-004	1.9000e-004	10.3035
Other Asphalt Surfaces	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
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		0.0144	0.1305	0.1096	7.9000e-004		9.9200e-003	9.9200e-003		9.9200e-003	9.9200e-003	0.0000	142.0715	142.0715	2.7300e-003	2.6100e-003	142.9158

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5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
City Park	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
General Light Industry	2.47038e+006	0.0133	0.1211	0.1017	7.3000e-004		9.2000e-003	9.2000e-003		9.2000e-003	9.2000e-003	0.0000	131.8289	131.8289	2.5300e-003	2.4200e-003	132.6123
General Office Building	191940	1.0300e-003	9.4100e-003	7.9000e-003	6.0000e-005		7.2000e-004	7.2000e-004		7.2000e-004	7.2000e-004	0.0000	10.2427	10.2427	2.0000e-004	1.9000e-004	10.3035
Other Asphalt Surfaces	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
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		0.0144	0.1305	0.1096	7.9000e-004		9.9200e-003	9.9200e-003		9.9200e-003	9.9200e-003	0.0000	142.0715	142.0715	2.7300e-003	2.6100e-003	142.9158

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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			
City Park	0	0.0000	0.0000	0.0000	0.0000
General Light Industry	998790	318.2359	0.0131	2.7200e-003	319.3744
General Office Building	293790	93.6078	3.8600e-003	8.0000e-004	93.9427
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	41164.2	13.1158	5.4000e-004	1.1000e-004	13.1627
Total		424.9595	0.0175	3.6300e-003	426.4798

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

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
General Light Industry	998790	318.2359	0.0131	2.7200e-003	319.3744
General Office Building	293790	93.6078	3.8600e-003	8.0000e-004	93.9427
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	41164.2	13.1158	5.4000e-004	1.1000e-004	13.1627
Total		424.9595	0.0175	3.6300e-003	426.4798

6.0 Area Detail**6.1 Mitigation Measures Area**

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

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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	0.5450	4.0000e-005	3.9900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.7300e-003	7.7300e-003	2.0000e-005	0.0000	8.2400e-003
Unmitigated	0.5450	4.0000e-005	3.9900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.7300e-003	7.7300e-003	2.0000e-005	0.0000	8.2400e-003

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	0.0332					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.5115					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.7000e-004	4.0000e-005	3.9900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.7300e-003	7.7300e-003	2.0000e-005	0.0000	8.2400e-003
Total	0.5450	4.0000e-005	3.9900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.7300e-003	7.7300e-003	2.0000e-005	0.0000	8.2400e-003

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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	0.0332					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.5115					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.7000e-004	4.0000e-005	3.9900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.7300e-003	7.7300e-003	2.0000e-005	0.0000	8.2400e-003
Total	0.5450	4.0000e-005	3.9900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.7300e-003	7.7300e-003	2.0000e-005	0.0000	8.2400e-003

7.0 Water Detail

7.1 Mitigation Measures Water

300 Studebaker Industrial Project - South Coast Air Basin, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	154.7839	1.0205	0.0252	187.8050
Unmitigated	154.7839	1.0205	0.0252	187.8050

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 2.15658	7.6341	3.2000e-004	7.0000e-005	7.6614
General Light Industry	27.4031 / 0	122.3830	0.8976	0.0221	151.3961
General Office Building	3.73241 / 2.28761	24.7669	0.1226	3.0700e-003	28.7475
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		154.7839	1.0205	0.0252	187.8050

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7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 2.15658	7.6341	3.2000e-004	7.0000e-005	7.6614
General Light Industry	27.4031 / 0	122.3830	0.8976	0.0221	151.3961
General Office Building	3.73241 / 2.28761	24.7669	0.1226	3.0700e-003	28.7475
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		154.7839	1.0205	0.0252	187.8050

8.0 Waste Detail

8.1 Mitigation Measures Waste

300 Studebaker Industrial Project - South Coast Air Basin, Annual

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	33.8244	1.9990	0.0000	83.7985
Unmitigated	33.8244	1.9990	0.0000	83.7985

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.16	0.0325	1.9200e-003	0.0000	0.0805
General Light Industry	146.94	29.8275	1.7628	0.0000	73.8964
General Office Building	19.53	3.9644	0.2343	0.0000	9.8217
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		33.8244	1.9990	0.0000	83.7985

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8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.16	0.0325	1.9200e-003	0.0000	0.0805
General Light Industry	146.94	29.8275	1.7628	0.0000	73.8964
General Office Building	19.53	3.9644	0.2343	0.0000	9.8217
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		33.8244	1.9990	0.0000	83.7985

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
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

Greenhouse Gas Emission Worksheet
N2O Mobile Emissions

300 Studebaker, Long Beach

From CalEEMod v.2016.3.2 Vehicle Fleet Mix Output:

Annual VMT: 1,614,623

Vehicle Type	Percent Type	CH4 Emission Factor (g/mile)*	CH4 Emission (g/mile)**	N2O Emission Factor (g/mile)*	N2O Emission (g/mile)**
Light Auto	36.1%	0.04	0.01444	0.04	0.01444
Light Truck < 3750 lbs	2.8%	0.05	0.0014	0.06	0.00168
Light Truck 3751-5750 lbs	13.1%	0.05	0.00655	0.06	0.00786
Med Truck 5751-8500 lbs	7.9%	0.12	0.00948	0.2	0.0158
Lite-Heavy Truck 8501-10,000 lbs	5.0%	0.12	0.006	0.2	0.01
Lite-Heavy Truck 10,001-14,000 lbs	1.8%	0.09	0.00162	0.125	0.00225
Med-Heavy Truck 14,001-33,000 lbs	9.2%	0.06	0.00552	0.05	0.0046
Heavy-Heavy Truck 33,001-60,000 lbs	24.2%	0.06	0.01452	0.05	0.0121
Other Bus	0.0%	0.06	0	0.05	0
Urban Bus	0.0%	0.06	0	0.05	0
Motorcycle	0.0%	0.09	0	0.01	0
School Bus	0.0%	0.06	0	0.05	0
Motor Home	0.0%	0.09	0	0.125	0
Total	100.1%		0.05953		0.06873

Total Emissions (metric tons) =

Emission Factor by Vehicle Mix (g/mi) x Annual VMT(mi) x 0.000001 metric tons/g

Conversion to Carbon Dioxide Equivalency (CO2e) Units based on Global Warming Potential (GWP)

CH4 21 GWP
 N2O 310 GWP
 1 ton (short, US) = 0.90718474 metric ton

Annual Mobile Emissions:

	Total Emissions	Total CO2e units
N2O Emissions:	0.1110 metric tons N2O	34.40 metric tons CO2e
Project Total:		34.40 metric tons CO2e

References

- * from Table C.4: Methane and Nitrous Oxide Emission Factors for Mobile Sources by Vehicle and Fuel Type (g/mile). in California Climate Action Registry General Reporting Protocol, Reporting Entity-Wide Greenhouse Gas Emissions, Version 3.1, January 2009. Assume Model year 2000-present, gasoline fueled.
- ** Source: California Climate Action Registry General Reporting Protocol, Reporting Entity-Wide Greenhouse Gas Emissions, Version 3.1, January 2009.
- *** CalEEMod v.2016.3.2 results for mobile sources.

Greenhouse Gas Calculations

City of Long Beach, 300 Studebaker Industrial Project

Equipment Type	Horsepower ¹	Kilowatts (KW)	Annual Kilowatt Hours (kWh)	Annual Megawatt Hours (MWh)	SCE Emission Factor (MT CO ₂ /MWh) ²
E-One Pump Grinder	1.00	0.75	6,570.00	6.57	0.32

Equation:

$Annual\ MWh * SCE\ Emission\ Factor = Annual\ GHG\ Emissions$

Annual Operational GHG	
Emissions	Units
2.10	MT CO ₂ /MWh

Footnotes:

SCE: Southern California Edison; MT: metric tons

1. Horsepower for pump grinder based on operational specifications for E-One Model DH502 pump grinder for light industria

2. Source: Southern California Edison, 2012, "2012 Corporate Responsibility & Sustainability."

Note: Assumed pump grinder operates for 24 hours/day, 365 days/year