

APPENDIX A

CalEEMod Output

CalEEMod Output Files – Construction (Annual)

CalEEMod Version: CalEEMod.2016.3.2

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Bonita Vista High School Track and Field Project

San Diego County APCD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	125.56	1000sqft	2.88	125,557.00	0
City Park	1.73	Acre	1.73	75,260.00	0
City Park	2.43	Acre	2.43	106,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2022
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MW hr)	720.49	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Bonita Vista High School Track and Field Project. SDAPCD. Modeling construction emissions only.

Land Use - Project includes 60,012 sf in new paving, 65,545 sf of track, 75,260 sf of practice field, and 106,000 sf of landscaping. New 2,545 sf concessions/restrooms building.

Construction Phase - Construction would occur April 2021 through October 2021.

Off-road Equipment - Updated equipment per applicant.

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Trips and VMT - Updated trips per applicant.

Construction Off-road Equipment Mitigation - Water project site twice daily.

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	12.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstructionPhase	NumDays	230.00	70.00
tblConstructionPhase	NumDays	230.00	5.00
tblConstructionPhase	NumDays	230.00	22.00
tblConstructionPhase	NumDays	230.00	15.00
tblConstructionPhase	NumDays	230.00	23.00
tblConstructionPhase	NumDays	20.00	15.00
tblConstructionPhase	NumDays	20.00	13.00

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tblConstructionPhase	NumDays	20.00	10.00
tblGrading	AcresOfGrading	6.50	10.00
tblLandUse	LandUseSquareFeet	125,560.00	125,557.00
tblLandUse	LandUseSquareFeet	75,358.80	75,260.00
tblLandUse	LandUseSquareFeet	105,850.80	106,000.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Building Construction 2
tblOffRoadEquipment	PhaseName		Building Construction 5
tblOffRoadEquipment	PhaseName		Building Construction 5
tblOffRoadEquipment	UsageHours	7.00	8.00
tblTripsAndVMT	HaulingTripNumber	0.00	3.00
tblTripsAndVMT	HaulingTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	50.00	4.00

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tblTripsAndVMT	VendorTripNumber	50.00	3.00
tblTripsAndVMT	VendorTripNumber	50.00	3.00
tblTripsAndVMT	VendorTripNumber	50.00	3.00
tblTripsAndVMT	VendorTripNumber	50.00	10.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	10.00	15.00
tblTripsAndVMT	WorkerTripNumber	8.00	15.00
tblTripsAndVMT	WorkerTripNumber	5.00	18.00
tblTripsAndVMT	WorkerTripNumber	20.00	15.00
tblTripsAndVMT	WorkerTripNumber	129.00	20.00
tblTripsAndVMT	WorkerTripNumber	129.00	10.00
tblTripsAndVMT	WorkerTripNumber	129.00	10.00
tblTripsAndVMT	WorkerTripNumber	129.00	10.00
tblTripsAndVMT	WorkerTripNumber	129.00	20.00
tblTripsAndVMT	WorkerTripNumber	8.00	15.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.1379	1.2029	1.1314	1.9600e-003	0.0714	0.0626	0.1340	0.0323	0.0585	0.0907	0.0000	171.5817	171.5817	0.0416	0.0000	172.6207
Maximum	0.1379	1.2029	1.1314	1.9600e-003	0.0714	0.0626	0.1340	0.0323	0.0585	0.0907	0.0000	171.5817	171.5817	0.0416	0.0000	172.6207

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.1379	1.2029	1.1314	1.9600e-003	0.0411	0.0626	0.1037	0.0169	0.0585	0.0754	0.0000	171.5816	171.5816	0.0416	0.0000	172.6205
Maximum	0.1379	1.2029	1.1314	1.9600e-003	0.0411	0.0626	0.1037	0.0169	0.0585	0.0754	0.0000	171.5816	171.5816	0.0416	0.0000	172.6205

	ROG	NOx	CO	SO2	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	42.38	0.00	22.57	47.51	0.00	16.90	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	4/19/2021	5/7/2021	5	15	
2	Site Preparation	Site Preparation	5/10/2021	5/21/2021	5	10	
3	Grading	Grading	5/24/2021	6/9/2021	5	13	
4	Building Construction 1	Building Construction	6/7/2021	9/10/2021	5	70	Construction of concessions/restrooms
5	Building Construction 2	Building Construction	6/23/2021	6/29/2021	5	5	Replacement of track
6	Building Construction 3	Building Construction	6/30/2021	7/29/2021	5	22	Replacement of turf fields
7	Building Construction 4	Building Construction	7/30/2021	8/19/2021	5	15	Replacement of track
8	Building Construction 5	Building Construction	9/1/2021	10/1/2021	5	23	Installation of bleachers/lighting/other
9	Paving 1	Paving	9/13/2021	9/24/2021	5	10	
10	Paving 2	Paving	10/4/2021	10/29/2021	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 10

Acres of Paving: 2.88

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	2	8.00	158	0.38
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	2	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 1	Forklifts	3	8.00	89	0.20
Building Construction 1	Generator Sets	1	8.00	84	0.74
Building Construction 1	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction 1	Welders	1	8.00	46	0.45
Building Construction 2	Forklifts	3	8.00	89	0.20
Building Construction 2	Paving Equipment	1	8.00	132	0.36
Building Construction 3	Forklifts	2	8.00	89	0.20
Building Construction 4	Forklifts	2	8.00	89	0.20
Building Construction 5	Aerial Lifts	1	7.00	63	0.31
Building Construction 5	Cranes	1	8.00	231	0.29
Building Construction 5	Excavators	1	8.00	158	0.38
Building Construction 5	Forklifts	2	8.00	89	0.20
Building Construction 5	Welders	1	8.00	46	0.45
Paving 1	Pavers	1	8.00	130	0.42
Paving 1	Paving Equipment	1	8.00	132	0.36
Paving 1	Rollers	1	8.00	80	0.38
Paving 2	Pavers	1	8.00	130	0.42
Paving 2	Paving Equipment	1	8.00	132	0.36
Paving 2	Rollers	1	8.00	80	0.38

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Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	4	15.00	0.00	3.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	15.00	0.00	6.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	20.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1 Building Construction	4	10.00	3.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
2 Building Construction	2	10.00	3.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
3 Building Construction	2	10.00	3.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
4 Building Construction	6	20.00	10.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
5 Paving 1	3	15.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving 2	3	15.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 2021**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	0.0142	0.1374	0.1069	1.9000e-004		6.8600e-003	6.8600e-003		6.4100e-003	6.4100e-003	0.0000	16.4681	16.4681	4.2600e-003	0.0000	16.5745
Total	0.0142	0.1374	0.1069	1.9000e-004		6.8600e-003	6.8600e-003		6.4100e-003	6.4100e-003	0.0000	16.4681	16.4681	4.2600e-003	0.0000	16.5745

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	3.9000e-004	1.0000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1142	0.1142	1.0000e-005	0.0000	0.1145
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	3.9000e-004	2.8000e-004	2.8100e-003	1.0000e-005	9.0000e-004	1.0000e-005	9.1000e-004	2.4000e-004	1.0000e-005	2.5000e-004	0.0000	0.7881	0.7881	2.0000e-005	0.0000	0.7887
Total	4.0000e-004	6.7000e-004	2.9100e-003	1.0000e-005	9.3000e-004	1.0000e-005	9.4000e-004	2.5000e-004	1.0000e-005	2.6000e-004	0.0000	0.9023	0.9023	3.0000e-005	0.0000	0.9032

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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	0.0142	0.1374	0.1069	1.9000e-004		6.8600e-003	6.8600e-003		6.4100e-003	6.4100e-003	0.0000	16.4681	16.4681	4.2600e-003	0.0000	16.5745
Total	0.0142	0.1374	0.1069	1.9000e-004		6.8600e-003	6.8600e-003		6.4100e-003	6.4100e-003	0.0000	16.4681	16.4681	4.2600e-003	0.0000	16.5745

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	3.9000e-004	1.0000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1142	0.1142	1.0000e-005	0.0000	0.1145
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	3.9000e-004	2.8000e-004	2.8100e-003	1.0000e-005	9.0000e-004	1.0000e-005	9.1000e-004	2.4000e-004	1.0000e-005	2.5000e-004	0.0000	0.7881	0.7881	2.0000e-005	0.0000	0.7887
Total	4.0000e-004	6.7000e-004	2.9100e-003	1.0000e-005	9.3000e-004	1.0000e-005	9.4000e-004	2.5000e-004	1.0000e-005	2.6000e-004	0.0000	0.9023	0.9023	3.0000e-005	0.0000	0.9032

3.3 Site Preparation - 2021**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					0.0301	0.0000	0.0301	0.0166	0.0000	0.0166	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.1700e-003	0.0643	0.0315	6.0000e-005		3.2200e-003	3.2200e-003		2.9600e-003	2.9600e-003	0.0000	5.1177	5.1177	1.6600e-003	0.0000	5.1591
Total	6.1700e-003	0.0643	0.0315	6.0000e-005	0.0301	3.2200e-003	0.0333	0.0166	2.9600e-003	0.0195	0.0000	5.1177	5.1177	1.6600e-003	0.0000	5.1591

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	3.1000e-004	2.2000e-004	2.2500e-003	1.0000e-005	7.2000e-004	1.0000e-005	7.3000e-004	1.9000e-004	0.0000	2.0000e-004	0.0000	0.6305	0.6305	2.0000e-005	0.0000	0.6309
Total	3.1000e-004	2.2000e-004	2.2500e-003	1.0000e-005	7.2000e-004	1.0000e-005	7.3000e-004	1.9000e-004	0.0000	2.0000e-004	0.0000	0.6305	0.6305	2.0000e-005	0.0000	0.6309

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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					0.0136	0.0000	0.0136	7.4500e-003	0.0000	7.4500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.1700e-003	0.0643	0.0315	6.0000e-005		3.2200e-003	3.2200e-003		2.9600e-003	2.9600e-003	0.0000	5.1177	5.1177	1.6600e-003	0.0000	5.1590
Total	6.1700e-003	0.0643	0.0315	6.0000e-005	0.0136	3.2200e-003	0.0168	7.4500e-003	2.9600e-003	0.0104	0.0000	5.1177	5.1177	1.6600e-003	0.0000	5.1590

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	3.1000e-004	2.2000e-004	2.2500e-003	1.0000e-005	7.2000e-004	1.0000e-005	7.3000e-004	1.9000e-004	0.0000	2.0000e-004	0.0000	0.6305	0.6305	2.0000e-005	0.0000	0.6309
Total	3.1000e-004	2.2000e-004	2.2500e-003	1.0000e-005	7.2000e-004	1.0000e-005	7.3000e-004	1.9000e-004	0.0000	2.0000e-004	0.0000	0.6305	0.6305	2.0000e-005	0.0000	0.6309

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3.4 Grading - 2021**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					0.0249	0.0000	0.0249	0.0113	0.0000	0.0113	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0193	0.2133	0.1358	2.7000e-004		9.4400e-003	9.4400e-003		8.6800e-003	8.6800e-003	0.0000	23.6682	23.6682	7.6500e-003	0.0000	23.8596
Total	0.0193	0.2133	0.1358	2.7000e-004	0.0249	9.4400e-003	0.0343	0.0113	8.6800e-003	0.0200	0.0000	23.6682	23.6682	7.6500e-003	0.0000	23.8596

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	2.0000e-005	7.8000e-004	1.9000e-004	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	2.0000e-005	0.0000	0.2285	0.2285	2.0000e-005	0.0000	0.2290
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	3.4000e-004	2.4000e-004	2.4400e-003	1.0000e-005	7.8000e-004	1.0000e-005	7.9000e-004	2.1000e-004	1.0000e-005	2.1000e-004	0.0000	0.6830	0.6830	2.0000e-005	0.0000	0.6835
Total	3.6000e-004	1.0200e-003	2.6300e-003	1.0000e-005	8.3000e-004	1.0000e-005	8.4000e-004	2.2000e-004	1.0000e-005	2.3000e-004	0.0000	0.9115	0.9115	4.0000e-005	0.0000	0.9125

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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					0.0112	0.0000	0.0112	5.1000e-003	0.0000	5.1000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0193	0.2133	0.1358	2.7000e-004		9.4400e-003	9.4400e-003		8.6800e-003	8.6800e-003	0.0000	23.6682	23.6682	7.6500e-003	0.0000	23.8596
Total	0.0193	0.2133	0.1358	2.7000e-004	0.0112	9.4400e-003	0.0206	5.1000e-003	8.6800e-003	0.0138	0.0000	23.6682	23.6682	7.6500e-003	0.0000	23.8596

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	2.0000e-005	7.8000e-004	1.9000e-004	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	2.0000e-005	0.0000	0.2285	0.2285	2.0000e-005	0.0000	0.2290
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	3.4000e-004	2.4000e-004	2.4400e-003	1.0000e-005	7.8000e-004	1.0000e-005	7.9000e-004	2.1000e-004	1.0000e-005	2.1000e-004	0.0000	0.6830	0.6830	2.0000e-005	0.0000	0.6835
Total	3.6000e-004	1.0200e-003	2.6300e-003	1.0000e-005	8.3000e-004	1.0000e-005	8.4000e-004	2.2000e-004	1.0000e-005	2.3000e-004	0.0000	0.9115	0.9115	4.0000e-005	0.0000	0.9125

3.5 Building Construction 1 - 2021**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	0.0539	0.4616	0.5194	7.7000e-004		0.0275	0.0275		0.0260	0.0260	0.0000	65.5499	65.5499	0.0145	0.0000	65.9133
Total	0.0539	0.4616	0.5194	7.7000e-004		0.0275	0.0275		0.0260	0.0260	0.0000	65.5499	65.5499	0.0145	0.0000	65.9133

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	4.3000e-004	0.0144	3.8400e-003	4.0000e-005	9.3000e-004	3.0000e-005	9.6000e-004	2.7000e-004	3.0000e-005	3.0000e-004	0.0000	3.6602	3.6602	2.7000e-004	0.0000	3.6670
Worker	2.4300e-003	1.7400e-003	0.0175	5.0000e-005	5.6100e-003	4.0000e-005	5.6500e-003	1.4900e-003	4.0000e-005	1.5300e-003	0.0000	4.9037	4.9037	1.4000e-004	0.0000	4.9072
Total	2.8600e-003	0.0161	0.0213	9.0000e-005	6.5400e-003	7.0000e-005	6.6100e-003	1.7600e-003	7.0000e-005	1.8300e-003	0.0000	8.5638	8.5638	4.1000e-004	0.0000	8.5741

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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					
Off-Road	0.0539	0.4616	0.5194	7.7000e-004		0.0275	0.0275		0.0260	0.0260	0.0000	65.5498	65.5498	0.0145	0.0000	65.9133
Total	0.0539	0.4616	0.5194	7.7000e-004		0.0275	0.0275		0.0260	0.0260	0.0000	65.5498	65.5498	0.0145	0.0000	65.9133

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	4.3000e-004	0.0144	3.8400e-003	4.0000e-005	9.3000e-004	3.0000e-005	9.6000e-004	2.7000e-004	3.0000e-005	3.0000e-004	0.0000	3.6602	3.6602	2.7000e-004	0.0000	3.6670
Worker	2.4300e-003	1.7400e-003	0.0175	5.0000e-005	5.6100e-003	4.0000e-005	5.6500e-003	1.4900e-003	4.0000e-005	1.5300e-003	0.0000	4.9037	4.9037	1.4000e-004	0.0000	4.9072
Total	2.8600e-003	0.0161	0.0213	9.0000e-005	6.5400e-003	7.0000e-005	6.6100e-003	1.7600e-003	7.0000e-005	1.8300e-003	0.0000	8.5638	8.5638	4.1000e-004	0.0000	8.5741

3.6 Building Construction 2 - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.4500e-003	0.0137	0.0151	2.0000e-005		8.7000e-004	8.7000e-004		8.0000e-004	8.0000e-004	0.0000	1.9018	1.9018	6.2000e-004	0.0000	1.9172
Total	1.4500e-003	0.0137	0.0151	2.0000e-005		8.7000e-004	8.7000e-004		8.0000e-004	8.0000e-004	0.0000	1.9018	1.9018	6.2000e-004	0.0000	1.9172

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0000e-005	7.7000e-004	2.1000e-004	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	2.0000e-005	0.0000	0.1961	0.1961	1.0000e-005	0.0000	0.1964
Worker	9.0000e-005	6.0000e-005	6.2000e-004	0.0000	2.0000e-004	0.0000	2.0000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1751	0.1751	1.0000e-005	0.0000	0.1753
Total	1.1000e-004	8.3000e-004	8.3000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	6.0000e-005	0.0000	7.0000e-005	0.0000	0.3712	0.3712	2.0000e-005	0.0000	0.3717

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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.4500e-003	0.0137	0.0151	2.0000e-005		8.7000e-004	8.7000e-004		8.0000e-004	8.0000e-004	0.0000	1.9018	1.9018	6.2000e-004	0.0000	1.9172
Total	1.4500e-003	0.0137	0.0151	2.0000e-005		8.7000e-004	8.7000e-004		8.0000e-004	8.0000e-004	0.0000	1.9018	1.9018	6.2000e-004	0.0000	1.9172

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0000e-005	7.7000e-004	2.1000e-004	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	2.0000e-005	0.0000	0.1961	0.1961	1.0000e-005	0.0000	0.1964
Worker	9.0000e-005	6.0000e-005	6.2000e-004	0.0000	2.0000e-004	0.0000	2.0000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1751	0.1751	1.0000e-005	0.0000	0.1753
Total	1.1000e-004	8.3000e-004	8.3000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	6.0000e-005	0.0000	7.0000e-005	0.0000	0.3712	0.3712	2.0000e-005	0.0000	0.3717

3.7 Building Construction 3 - 2021**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	2.8500e-003	0.0259	0.0257	3.0000e-005		1.8400e-003	1.8400e-003		1.6900e-003	1.6900e-003	0.0000	2.9544	2.9544	9.6000e-004	0.0000	2.9783
Total	2.8500e-003	0.0259	0.0257	3.0000e-005		1.8400e-003	1.8400e-003		1.6900e-003	1.6900e-003	0.0000	2.9544	2.9544	9.6000e-004	0.0000	2.9783

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	1.0000e-004	3.3900e-003	9.0000e-004	1.0000e-005	2.2000e-004	1.0000e-005	2.3000e-004	6.0000e-005	1.0000e-005	7.0000e-005	0.0000	0.8628	0.8628	6.0000e-005	0.0000	0.8644
Worker	3.8000e-004	2.7000e-004	2.7500e-003	1.0000e-005	8.8000e-004	1.0000e-005	8.9000e-004	2.3000e-004	1.0000e-005	2.4000e-004	0.0000	0.7706	0.7706	2.0000e-005	0.0000	0.7711
Total	4.8000e-004	3.6600e-003	3.6500e-003	2.0000e-005	1.1000e-003	2.0000e-005	1.1200e-003	2.9000e-004	2.0000e-005	3.1000e-004	0.0000	1.6333	1.6333	8.0000e-005	0.0000	1.6355

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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	2.8500e-003	0.0259	0.0257	3.0000e-005		1.8400e-003	1.8400e-003		1.6900e-003	1.6900e-003	0.0000	2.9544	2.9544	9.6000e-004	0.0000	2.9783
Total	2.8500e-003	0.0259	0.0257	3.0000e-005		1.8400e-003	1.8400e-003		1.6900e-003	1.6900e-003	0.0000	2.9544	2.9544	9.6000e-004	0.0000	2.9783

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	1.0000e-004	3.3900e-003	9.0000e-004	1.0000e-005	2.2000e-004	1.0000e-005	2.3000e-004	6.0000e-005	1.0000e-005	7.0000e-005	0.0000	0.8628	0.8628	6.0000e-005	0.0000	0.8644
Worker	3.8000e-004	2.7000e-004	2.7500e-003	1.0000e-005	8.8000e-004	1.0000e-005	8.9000e-004	2.3000e-004	1.0000e-005	2.4000e-004	0.0000	0.7706	0.7706	2.0000e-005	0.0000	0.7711
Total	4.8000e-004	3.6600e-003	3.6500e-003	2.0000e-005	1.1000e-003	2.0000e-005	1.1200e-003	2.9000e-004	2.0000e-005	3.1000e-004	0.0000	1.6333	1.6333	8.0000e-005	0.0000	1.6355

3.8 Building Construction 4 - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.9400e-003	0.0177	0.0175	2.0000e-005		1.2600e-003	1.2600e-003		1.1600e-003	1.1600e-003	0.0000	2.0144	2.0144	6.5000e-004	0.0000	2.0307
Total	1.9400e-003	0.0177	0.0175	2.0000e-005		1.2600e-003	1.2600e-003		1.1600e-003	1.1600e-003	0.0000	2.0144	2.0144	6.5000e-004	0.0000	2.0307

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	7.0000e-005	2.3100e-003	6.2000e-004	1.0000e-005	2.5000e-004	0.0000	2.6000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.5882	0.5882	4.0000e-005	0.0000	0.5893
Worker	2.6000e-004	1.9000e-004	1.8700e-003	1.0000e-005	1.1200e-003	0.0000	1.1300e-003	2.9000e-004	0.0000	2.9000e-004	0.0000	0.5254	0.5254	2.0000e-005	0.0000	0.5258
Total	3.3000e-004	2.5000e-003	2.4900e-003	2.0000e-005	1.3700e-003	0.0000	1.3900e-003	3.6000e-004	0.0000	3.6000e-004	0.0000	1.1136	1.1136	6.0000e-005	0.0000	1.1151

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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					
Off-Road	1.9400e-003	0.0177	0.0175	2.0000e-005		1.2600e-003	1.2600e-003		1.1600e-003	1.1600e-003	0.0000	2.0144	2.0144	6.5000e-004	0.0000	2.0307
Total	1.9400e-003	0.0177	0.0175	2.0000e-005		1.2600e-003	1.2600e-003		1.1600e-003	1.1600e-003	0.0000	2.0144	2.0144	6.5000e-004	0.0000	2.0307

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	7.0000e-005	2.3100e-003	6.2000e-004	1.0000e-005	2.5000e-004	0.0000	2.6000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.5882	0.5882	4.0000e-005	0.0000	0.5893
Worker	2.6000e-004	1.9000e-004	1.8700e-003	1.0000e-005	1.1200e-003	0.0000	1.1300e-003	2.9000e-004	0.0000	2.9000e-004	0.0000	0.5254	0.5254	2.0000e-005	0.0000	0.5258
Total	3.3000e-004	2.5000e-003	2.4900e-003	2.0000e-005	1.3700e-003	0.0000	1.3900e-003	3.6000e-004	0.0000	3.6000e-004	0.0000	1.1136	1.1136	6.0000e-005	0.0000	1.1151

3.9 Building Construction 5 - 2021**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	0.0142	0.1311	0.1181	2.1000e-004		6.3600e-003	6.3600e-003		5.9200e-003	5.9200e-003	0.0000	17.7852	17.7852	5.3300e-003	0.0000	17.9185
Total	0.0142	0.1311	0.1181	2.1000e-004		6.3600e-003	6.3600e-003		5.9200e-003	5.9200e-003	0.0000	17.7852	17.7852	5.3300e-003	0.0000	17.9185

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.6000e-004	0.0118	3.1500e-003	3.0000e-005	7.6000e-004	3.0000e-005	7.9000e-004	2.2000e-004	2.0000e-005	2.4000e-004	0.0000	3.0066	3.0066	2.2000e-004	0.0000	3.0121
Worker	8.0000e-004	5.7000e-004	5.7500e-003	2.0000e-005	1.8400e-003	1.0000e-005	1.8600e-003	4.9000e-004	1.0000e-005	5.0000e-004	0.0000	1.6112	1.6112	5.0000e-005	0.0000	1.6124
Total	1.1600e-003	0.0124	8.9000e-003	5.0000e-005	2.6000e-003	4.0000e-005	2.6500e-003	7.1000e-004	3.0000e-005	7.4000e-004	0.0000	4.6178	4.6178	2.7000e-004	0.0000	4.6245

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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					
Off-Road	0.0142	0.1311	0.1181	2.1000e-004		6.3600e-003	6.3600e-003		5.9200e-003	5.9200e-003	0.0000	17.7851	17.7851	5.3300e-003	0.0000	17.9185
Total	0.0142	0.1311	0.1181	2.1000e-004		6.3600e-003	6.3600e-003		5.9200e-003	5.9200e-003	0.0000	17.7851	17.7851	5.3300e-003	0.0000	17.9185

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.6000e-004	0.0118	3.1500e-003	3.0000e-005	7.6000e-004	3.0000e-005	7.9000e-004	2.2000e-004	2.0000e-005	2.4000e-004	0.0000	3.0066	3.0066	2.2000e-004	0.0000	3.0121
Worker	8.0000e-004	5.7000e-004	5.7500e-003	2.0000e-005	1.8400e-003	1.0000e-005	1.8600e-003	4.9000e-004	1.0000e-005	5.0000e-004	0.0000	1.6112	1.6112	5.0000e-005	0.0000	1.6124
Total	1.1600e-003	0.0124	8.9000e-003	5.0000e-005	2.6000e-003	4.0000e-005	2.6500e-003	7.1000e-004	3.0000e-005	7.4000e-004	0.0000	4.6178	4.6178	2.7000e-004	0.0000	4.6245

3.10 Paving 1 - 2021**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	3.1400e-003	0.0323	0.0366	6.0000e-005		1.6900e-003	1.6900e-003		1.5600e-003	1.5600e-003	0.0000	5.0059	5.0059	1.6200e-003	0.0000	5.0464
Paving	3.7700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	6.9100e-003	0.0323	0.0366	6.0000e-005		1.6900e-003	1.6900e-003		1.5600e-003	1.5600e-003	0.0000	5.0059	5.0059	1.6200e-003	0.0000	5.0464

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.0000e-005	1.0300e-003	2.7000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.2614	0.2614	2.0000e-005	0.0000	0.2619
Worker	2.6000e-004	1.9000e-004	1.8700e-003	1.0000e-005	6.0000e-004	0.0000	6.1000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.5254	0.5254	2.0000e-005	0.0000	0.5258
Total	2.9000e-004	1.2200e-003	2.1400e-003	1.0000e-005	6.7000e-004	0.0000	6.8000e-004	1.8000e-004	0.0000	1.8000e-004	0.0000	0.7868	0.7868	4.0000e-005	0.0000	0.7877

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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	3.1400e-003	0.0323	0.0366	6.0000e-005		1.6900e-003	1.6900e-003		1.5600e-003	1.5600e-003	0.0000	5.0059	5.0059	1.6200e-003	0.0000	5.0463
Paving	3.7700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	6.9100e-003	0.0323	0.0366	6.0000e-005		1.6900e-003	1.6900e-003		1.5600e-003	1.5600e-003	0.0000	5.0059	5.0059	1.6200e-003	0.0000	5.0463

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.0000e-005	1.0300e-003	2.7000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.2614	0.2614	2.0000e-005	0.0000	0.2619
Worker	2.6000e-004	1.9000e-004	1.8700e-003	1.0000e-005	6.0000e-004	0.0000	6.1000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.5254	0.5254	2.0000e-005	0.0000	0.5258
Total	2.9000e-004	1.2200e-003	2.1400e-003	1.0000e-005	6.7000e-004	0.0000	6.8000e-004	1.8000e-004	0.0000	1.8000e-004	0.0000	0.7868	0.7868	4.0000e-005	0.0000	0.7877

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3.11 Paving 2 - 2021**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	6.2800e-003	0.0646	0.0733	1.1000e-004		3.3900e-003	3.3900e-003		3.1200e-003	3.1200e-003	0.0000	10.0117	10.0117	3.2400e-003	0.0000	10.0927
Paving	3.7700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0101	0.0646	0.0733	1.1000e-004		3.3900e-003	3.3900e-003		3.1200e-003	3.1200e-003	0.0000	10.0117	10.0117	3.2400e-003	0.0000	10.0927

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	6.0000e-005	2.0600e-003	5.5000e-004	1.0000e-005	1.3000e-004	0.0000	1.4000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.5229	0.5229	4.0000e-005	0.0000	0.5239
Worker	5.2000e-004	3.7000e-004	3.7500e-003	1.0000e-005	1.2000e-003	1.0000e-005	1.2100e-003	3.2000e-004	1.0000e-005	3.3000e-004	0.0000	1.0508	1.0508	3.0000e-005	0.0000	1.0515
Total	5.8000e-004	2.4300e-003	4.3000e-003	2.0000e-005	1.3300e-003	1.0000e-005	1.3500e-003	3.6000e-004	1.0000e-005	3.7000e-004	0.0000	1.5737	1.5737	7.0000e-005	0.0000	1.5754

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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	6.2800e-003	0.0646	0.0733	1.1000e-004		3.3900e-003	3.3900e-003		3.1200e-003	3.1200e-003	0.0000	10.0117	10.0117	3.2400e-003	0.0000	10.0927
Paving	3.7700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0101	0.0646	0.0733	1.1000e-004		3.3900e-003	3.3900e-003		3.1200e-003	3.1200e-003	0.0000	10.0117	10.0117	3.2400e-003	0.0000	10.0927

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	6.0000e-005	2.0600e-003	5.5000e-004	1.0000e-005	1.3000e-004	0.0000	1.4000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.5229	0.5229	4.0000e-005	0.0000	0.5239
Worker	5.2000e-004	3.7000e-004	3.7500e-003	1.0000e-005	1.2000e-003	1.0000e-005	1.2100e-003	3.2000e-004	1.0000e-005	3.3000e-004	0.0000	1.0508	1.0508	3.0000e-005	0.0000	1.0515
Total	5.8000e-004	2.4300e-003	4.3000e-003	2.0000e-005	1.3300e-003	1.0000e-005	1.3500e-003	3.6000e-004	1.0000e-005	3.7000e-004	0.0000	1.5737	1.5737	7.0000e-005	0.0000	1.5754

CalEEMod Output Files – Construction (Summer)

Bonita Vista High School Track and Field Project

San Diego County APCD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	125.56	1000sqft	2.88	125,557.00	0
City Park	1.73	Acre	1.73	75,260.00	0
City Park	2.43	Acre	2.43	106,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2022
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MW hr)	720.49	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Bonita Vista High School Track and Field Project. SDAPCD. Modeling construction emissions only.

Land Use - Project includes 60,012 sf in new paving, 65,545 sf of track, 75,260 sf of practice field, and 106,000 sf of landscaping. New 2,545 sf concessions/restrooms building.

Construction Phase - Construction would occur April 2021 through October 2021.

Off-road Equipment - Updated equipment per applicant.

Off-road Equipment - Updated equipment per applicant.

Off-road Equipment - Updated equipment per applicant.

Off-road Equipment - Updated equipment per applicant.

Bonita Vista High School Track and Field Project - San Diego County APCD Air District, Summer

Off-road Equipment - Updated equipment per applicant.

Off-road Equipment - Updated equipment per applicant.

Off-road Equipment - Updated equipment per applicant.

Off-road Equipment - Updated equipment per applicant.

Off-road Equipment - Updated equipment per applicant.

Off-road Equipment - Updated equipment per applicant.

Trips and VMT - Updated trips per applicant.

Construction Off-road Equipment Mitigation - Water project site twice daily.

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	12.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstructionPhase	NumDays	230.00	70.00
tblConstructionPhase	NumDays	230.00	5.00
tblConstructionPhase	NumDays	230.00	22.00
tblConstructionPhase	NumDays	230.00	15.00
tblConstructionPhase	NumDays	230.00	23.00
tblConstructionPhase	NumDays	20.00	15.00
tblConstructionPhase	NumDays	20.00	13.00
tblConstructionPhase	NumDays	20.00	10.00

Bonita Vista High School Track and Field Project - San Diego County APCD Air District, Summer

tblGrading	AcresOfGrading	6.50	10.00
tblLandUse	LandUseSquareFeet	125,560.00	125,557.00
tblLandUse	LandUseSquareFeet	75,358.80	75,260.00
tblLandUse	LandUseSquareFeet	105,850.80	106,000.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Building Construction 2
tblOffRoadEquipment	PhaseName		Building Construction 5
tblOffRoadEquipment	PhaseName		Building Construction 5
tblOffRoadEquipment	UsageHours	7.00	8.00
tblTripsAndVMT	HaulingTripNumber	0.00	3.00
tblTripsAndVMT	HaulingTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	50.00	4.00
tblTripsAndVMT	VendorTripNumber	50.00	3.00

Bonita Vista High School Track and Field Project - San Diego County APCD Air District, Summer

tblTripsAndVMT	VendorTripNumber	50.00	3.00
tblTripsAndVMT	VendorTripNumber	50.00	3.00
tblTripsAndVMT	VendorTripNumber	50.00	10.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	10.00	15.00
tblTripsAndVMT	WorkerTripNumber	8.00	15.00
tblTripsAndVMT	WorkerTripNumber	5.00	18.00
tblTripsAndVMT	WorkerTripNumber	20.00	15.00
tblTripsAndVMT	WorkerTripNumber	129.00	20.00
tblTripsAndVMT	WorkerTripNumber	129.00	10.00
tblTripsAndVMT	WorkerTripNumber	129.00	10.00
tblTripsAndVMT	WorkerTripNumber	129.00	10.00
tblTripsAndVMT	WorkerTripNumber	129.00	20.00
tblTripsAndVMT	WorkerTripNumber	8.00	15.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	4.6487	46.6079	36.7978	0.0676	6.1700	2.2416	6.8152	3.3495	2.0817	3.9431	0.0000	6,518.8986	6,518.8986	1.7760	0.0000	6,563.2973
Maximum	4.6487	46.6079	36.7978	0.0676	6.1700	2.2416	6.8152	3.3495	2.0817	3.9431	0.0000	6,518.8986	6,518.8986	1.7760	0.0000	6,563.2973

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	4.6487	46.6079	36.7978	0.0676	2.8578	2.2416	4.2863	1.5288	2.0817	2.9524	0.0000	6,518.8986	6,518.8986	1.7760	0.0000	6,563.2973
Maximum	4.6487	46.6079	36.7978	0.0676	2.8578	2.2416	4.2863	1.5288	2.0817	2.9524	0.0000	6,518.8986	6,518.8986	1.7760	0.0000	6,563.2973

	ROG	NOx	CO	SO2	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	53.68	0.00	37.11	54.36	0.00	25.13	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	4/19/2021	5/7/2021	5	15	
2	Site Preparation	Site Preparation	5/10/2021	5/21/2021	5	10	
3	Grading	Grading	5/24/2021	6/9/2021	5	13	
4	Building Construction 1	Building Construction	6/7/2021	9/10/2021	5	70	Construction of concessions/restrooms
5	Building Construction 2	Building Construction	6/23/2021	6/29/2021	5	5	Replacement of track
6	Building Construction 3	Building Construction	6/30/2021	7/29/2021	5	22	Replacement of turf fields
7	Building Construction 4	Building Construction	7/30/2021	8/19/2021	5	15	Replacement of track
8	Building Construction 5	Building Construction	9/1/2021	10/1/2021	5	23	Installation of bleachers/lighting/other
9	Paving 1	Paving	9/13/2021	9/24/2021	5	10	
10	Paving 2	Paving	10/4/2021	10/29/2021	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 10

Acres of Paving: 2.88

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

Bonita Vista High School Track and Field Project - San Diego County APCD Air District, Summer

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	2	8.00	158	0.38
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	2	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 1	Forklifts	3	8.00	89	0.20
Building Construction 1	Generator Sets	1	8.00	84	0.74
Building Construction 1	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction 1	Welders	1	8.00	46	0.45
Building Construction 2	Forklifts	3	8.00	89	0.20
Building Construction 2	Paving Equipment	1	8.00	132	0.36
Building Construction 3	Forklifts	2	8.00	89	0.20
Building Construction 4	Forklifts	2	8.00	89	0.20
Building Construction 5	Aerial Lifts	1	7.00	63	0.31
Building Construction 5	Cranes	1	8.00	231	0.29
Building Construction 5	Excavators	1	8.00	158	0.38
Building Construction 5	Forklifts	2	8.00	89	0.20
Building Construction 5	Welders	1	8.00	46	0.45
Paving 1	Pavers	1	8.00	130	0.42
Paving 1	Paving Equipment	1	8.00	132	0.36
Paving 1	Rollers	1	8.00	80	0.38
Paving 2	Pavers	1	8.00	130	0.42
Paving 2	Paving Equipment	1	8.00	132	0.36
Paving 2	Rollers	1	8.00	80	0.38

Bonita Vista High School Track and Field Project - San Diego County APCD Air District, Summer

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	4	15.00	0.00	3.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	15.00	0.00	6.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	20.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1 Building Construction	4	10.00	3.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
2 Building Construction	2	10.00	3.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
3 Building Construction	2	10.00	3.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
4 Building Construction	6	20.00	10.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
5 Paving 1	3	15.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving 2	3	15.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 2021**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	1.8896	18.3160	14.2554	0.0251		0.9145	0.9145		0.8551	0.8551		2,420.4008	2,420.4008	0.6255		2,436.0393
Total	1.8896	18.3160	14.2554	0.0251		0.9145	0.9145		0.8551	0.8551		2,420.4008	2,420.4008	0.6255		2,436.0393

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	1.4800e-003	0.0513	0.0125	1.5000e-004	3.4900e-003	1.6000e-004	3.6500e-003	9.6000e-004	1.5000e-004	1.1100e-003		16.9136	16.9136	1.4900e-003		16.9510
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	0.0519	0.0337	0.3979	1.2300e-003	0.1232	8.5000e-004	0.1241	0.0327	7.8000e-004	0.0335		122.1661	122.1661	3.4900e-003		122.2533
Total	0.0534	0.0850	0.4104	1.3800e-003	0.1267	1.0100e-003	0.1277	0.0336	9.3000e-004	0.0346		139.0797	139.0797	4.9800e-003		139.2043

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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	lb/day										lb/day					
Off-Road	1.8896	18.3160	14.2554	0.0251		0.9145	0.9145		0.8551	0.8551	0.0000	2,420.4008	2,420.4008	0.6255		2,436.0393
Total	1.8896	18.3160	14.2554	0.0251		0.9145	0.9145		0.8551	0.8551	0.0000	2,420.4008	2,420.4008	0.6255		2,436.0393

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	1.4800e-003	0.0513	0.0125	1.5000e-004	3.4900e-003	1.6000e-004	3.6500e-003	9.6000e-004	1.5000e-004	1.1100e-003		16.9136	16.9136	1.4900e-003		16.9510
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	0.0519	0.0337	0.3979	1.2300e-003	0.1232	8.5000e-004	0.1241	0.0327	7.8000e-004	0.0335		122.1661	122.1661	3.4900e-003		122.2533
Total	0.0534	0.0850	0.4104	1.3800e-003	0.1267	1.0100e-003	0.1277	0.0336	9.3000e-004	0.0346		139.0797	139.0797	4.9800e-003		139.2043

3.3 Site Preparation - 2021**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					6.0221	0.0000	6.0221	3.3102	0.0000	3.3102			0.0000			0.0000
Off-Road	1.2336	12.8671	6.2980	0.0116		0.6442	0.6442		0.5927	0.5927		1,128.2523	1,128.2523	0.3649		1,137.3748
Total	1.2336	12.8671	6.2980	0.0116	6.0221	0.6442	6.6663	3.3102	0.5927	3.9029		1,128.2523	1,128.2523	0.3649		1,137.3748

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	0.0623	0.0405	0.4774	1.4700e-003	0.1479	1.0200e-003	0.1489	0.0392	9.4000e-004	0.0402		146.5994	146.5994	4.1800e-003		146.7040
Total	0.0623	0.0405	0.4774	1.4700e-003	0.1479	1.0200e-003	0.1489	0.0392	9.4000e-004	0.0402		146.5994	146.5994	4.1800e-003		146.7040

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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					2.7099	0.0000	2.7099	1.4896	0.0000	1.4896			0.0000			0.0000
Off-Road	1.2336	12.8671	6.2980	0.0116		0.6442	0.6442		0.5927	0.5927	0.0000	1,128.2523	1,128.2523	0.3649		1,137.3748
Total	1.2336	12.8671	6.2980	0.0116	2.7099	0.6442	3.3542	1.4896	0.5927	2.0823	0.0000	1,128.2523	1,128.2523	0.3649		1,137.3748

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	0.0623	0.0405	0.4774	1.4700e-003	0.1479	1.0200e-003	0.1489	0.0392	9.4000e-004	0.0402		146.5994	146.5994	4.1800e-003		146.7040
Total	0.0623	0.0405	0.4774	1.4700e-003	0.1479	1.0200e-003	0.1489	0.0392	9.4000e-004	0.0402		146.5994	146.5994	4.1800e-003		146.7040

3.4 Grading - 2021**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					3.8268	0.0000	3.8268	1.7432	0.0000	1.7432			0.0000			0.0000
Off-Road	2.9725	32.8147	20.8965	0.0414		1.4521	1.4521		1.3359	1.3359		4,013.8046	4,013.8046	1.2982		4,046.2582
Total	2.9725	32.8147	20.8965	0.0414	3.8268	1.4521	5.2789	1.7432	1.3359	3.0791		4,013.8046	4,013.8046	1.2982		4,046.2582

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	3.4300e-003	0.1183	0.0289	3.6000e-004	8.0600e-003	3.6000e-004	8.4300e-003	2.2100e-003	3.5000e-004	2.5600e-003		39.0314	39.0314	3.4500e-003		39.1176
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	0.0519	0.0337	0.3979	1.2300e-003	0.1232	8.5000e-004	0.1241	0.0327	7.8000e-004	0.0335		122.1661	122.1661	3.4900e-003		122.2533
Total	0.0553	0.1520	0.4268	1.5900e-003	0.1313	1.2100e-003	0.1325	0.0349	1.1300e-003	0.0360		161.1975	161.1975	6.9400e-003		161.3709

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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.7221	0.0000	1.7221	0.7844	0.0000	0.7844			0.0000			0.0000
Off-Road	2.9725	32.8147	20.8965	0.0414		1.4521	1.4521		1.3359	1.3359	0.0000	4,013.8046	4,013.8046	1.2982		4,046.2582
Total	2.9725	32.8147	20.8965	0.0414	1.7221	1.4521	3.1741	0.7844	1.3359	2.1203	0.0000	4,013.8046	4,013.8046	1.2982		4,046.2582

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	3.4300e-003	0.1183	0.0289	3.6000e-004	8.0600e-003	3.6000e-004	8.4300e-003	2.2100e-003	3.5000e-004	2.5600e-003		39.0314	39.0314	3.4500e-003		39.1176
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	0.0519	0.0337	0.3979	1.2300e-003	0.1232	8.5000e-004	0.1241	0.0327	7.8000e-004	0.0335		122.1661	122.1661	3.4900e-003		122.2533
Total	0.0553	0.1520	0.4268	1.5900e-003	0.1313	1.2100e-003	0.1325	0.0349	1.1300e-003	0.0360		161.1975	161.1975	6.9400e-003		161.3709

3.5 Building Construction 1 - 2021**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	1.5396	13.1889	14.8402	0.0219		0.7864	0.7864		0.7428	0.7428		2,064.4675	2,064.4675	0.4579		2,075.9149
Total	1.5396	13.1889	14.8402	0.0219		0.7864	0.7864		0.7428	0.7428		2,064.4675	2,064.4675	0.4579		2,075.9149

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	0.0121	0.4073	0.1038	1.0800e-003	0.0271	8.6000e-004	0.0279	7.8000e-003	8.2000e-004	8.6100e-003		116.5408	116.5408	8.3300e-003		116.7490
Worker	0.0692	0.0449	0.5305	1.6300e-003	0.1643	1.1300e-003	0.1654	0.0436	1.0500e-003	0.0446		162.8882	162.8882	4.6500e-003		163.0044
Total	0.0813	0.4523	0.6343	2.7100e-003	0.1914	1.9900e-003	0.1934	0.0514	1.8700e-003	0.0532		279.4290	279.4290	0.0130		279.7534

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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	1.5396	13.1889	14.8402	0.0219		0.7864	0.7864		0.7428	0.7428	0.0000	2,064.4675	2,064.4675	0.4579		2,075.9149
Total	1.5396	13.1889	14.8402	0.0219		0.7864	0.7864		0.7428	0.7428	0.0000	2,064.4675	2,064.4675	0.4579		2,075.9149

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	0.0121	0.4073	0.1038	1.0800e-003	0.0271	8.6000e-004	0.0279	7.8000e-003	8.2000e-004	8.6100e-003		116.5408	116.5408	8.3300e-003		116.7490
Worker	0.0692	0.0449	0.5305	1.6300e-003	0.1643	1.1300e-003	0.1654	0.0436	1.0500e-003	0.0446		162.8882	162.8882	4.6500e-003		163.0044
Total	0.0813	0.4523	0.6343	2.7100e-003	0.1914	1.9900e-003	0.1934	0.0514	1.8700e-003	0.0532		279.4290	279.4290	0.0130		279.7534

3.6 Building Construction 2 - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5800	5.4777	6.0449	8.6600e-003		0.3469	0.3469		0.3192	0.3192		838.5482	838.5482	0.2712		845.3283
Total	0.5800	5.4777	6.0449	8.6600e-003		0.3469	0.3469		0.3192	0.3192		838.5482	838.5482	0.2712		845.3283

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	9.0700e-003	0.3055	0.0779	8.1000e-004	0.0203	6.4000e-004	0.0210	5.8500e-003	6.1000e-004	6.4600e-003		87.4056	87.4056	6.2500e-003		87.5617
Worker	0.0346	0.0225	0.2652	8.2000e-004	0.0822	5.7000e-004	0.0827	0.0218	5.2000e-004	0.0223		81.4441	81.4441	2.3200e-003		81.5022
Total	0.0437	0.3280	0.3431	1.6300e-003	0.1025	1.2100e-003	0.1037	0.0276	1.1300e-003	0.0288		168.8497	168.8497	8.5700e-003		169.0639

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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	lb/day										lb/day					
Off-Road	0.5800	5.4777	6.0449	8.6600e-003		0.3469	0.3469		0.3192	0.3192	0.0000	838.5482	838.5482	0.2712		845.3283
Total	0.5800	5.4777	6.0449	8.6600e-003		0.3469	0.3469		0.3192	0.3192	0.0000	838.5482	838.5482	0.2712		845.3283

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	9.0700e-003	0.3055	0.0779	8.1000e-004	0.0203	6.4000e-004	0.0210	5.8500e-003	6.1000e-004	6.4600e-003		87.4056	87.4056	6.2500e-003		87.5617
Worker	0.0346	0.0225	0.2652	8.2000e-004	0.0822	5.7000e-004	0.0827	0.0218	5.2000e-004	0.0223		81.4441	81.4441	2.3200e-003		81.5022
Total	0.0437	0.3280	0.3431	1.6300e-003	0.1025	1.2100e-003	0.1037	0.0276	1.1300e-003	0.0288		168.8497	168.8497	8.5700e-003		169.0639

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3.7 Building Construction 3 - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2587	2.3583	2.3357	3.0600e-003		0.1674	0.1674		0.1540	0.1540		296.0617	296.0617	0.0958		298.4555
Total	0.2587	2.3583	2.3357	3.0600e-003		0.1674	0.1674		0.1540	0.1540		296.0617	296.0617	0.0958		298.4555

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	9.0700e-003	0.3055	0.0779	8.1000e-004	0.0203	6.4000e-004	0.0210	5.8500e-003	6.1000e-004	6.4600e-003		87.4056	87.4056	6.2500e-003		87.5617
Worker	0.0346	0.0225	0.2652	8.2000e-004	0.0822	5.7000e-004	0.0827	0.0218	5.2000e-004	0.0223		81.4441	81.4441	2.3200e-003		81.5022
Total	0.0437	0.3280	0.3431	1.6300e-003	0.1025	1.2100e-003	0.1037	0.0276	1.1300e-003	0.0288		168.8497	168.8497	8.5700e-003		169.0639

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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2587	2.3583	2.3357	3.0600e-003		0.1674	0.1674		0.1540	0.1540	0.0000	296.0617	296.0617	0.0958		298.4555
Total	0.2587	2.3583	2.3357	3.0600e-003		0.1674	0.1674		0.1540	0.1540	0.0000	296.0617	296.0617	0.0958		298.4555

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	9.0700e-003	0.3055	0.0779	8.1000e-004	0.0203	6.4000e-004	0.0210	5.8500e-003	6.1000e-004	6.4600e-003		87.4056	87.4056	6.2500e-003		87.5617
Worker	0.0346	0.0225	0.2652	8.2000e-004	0.0822	5.7000e-004	0.0827	0.0218	5.2000e-004	0.0223		81.4441	81.4441	2.3200e-003		81.5022
Total	0.0437	0.3280	0.3431	1.6300e-003	0.1025	1.2100e-003	0.1037	0.0276	1.1300e-003	0.0288		168.8497	168.8497	8.5700e-003		169.0639

3.8 Building Construction 4 - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2587	2.3583	2.3357	3.0600e-003		0.1674	0.1674		0.1540	0.1540		296.0617	296.0617	0.0958		298.4555
Total	0.2587	2.3583	2.3357	3.0600e-003		0.1674	0.1674		0.1540	0.1540		296.0617	296.0617	0.0958		298.4555

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	9.0700e-003	0.3055	0.0779	8.1000e-004	0.0348	6.4000e-004	0.0354	9.4000e-003	6.1000e-004	0.0100		87.4056	87.4056	6.2500e-003		87.5617
Worker	0.0346	0.0225	0.2652	8.2000e-004	0.1535	5.7000e-004	0.1541	0.0393	5.2000e-004	0.0398		81.4441	81.4441	2.3200e-003		81.5022
Total	0.0437	0.3280	0.3431	1.6300e-003	0.1883	1.2100e-003	0.1895	0.0487	1.1300e-003	0.0499		168.8497	168.8497	8.5700e-003		169.0639

Bonita Vista High School Track and Field Project - San Diego County APCD Air District, Summer

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2587	2.3583	2.3357	3.0600e-003		0.1674	0.1674		0.1540	0.1540	0.0000	296.0617	296.0617	0.0958		298.4555
Total	0.2587	2.3583	2.3357	3.0600e-003		0.1674	0.1674		0.1540	0.1540	0.0000	296.0617	296.0617	0.0958		298.4555

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	9.0700e-003	0.3055	0.0779	8.1000e-004	0.0348	6.4000e-004	0.0354	9.4000e-003	6.1000e-004	0.0100		87.4056	87.4056	6.2500e-003		87.5617
Worker	0.0346	0.0225	0.2652	8.2000e-004	0.1535	5.7000e-004	0.1541	0.0393	5.2000e-004	0.0398		81.4441	81.4441	2.3200e-003		81.5022
Total	0.0437	0.3280	0.3431	1.6300e-003	0.1883	1.2100e-003	0.1895	0.0487	1.1300e-003	0.0499		168.8497	168.8497	8.5700e-003		169.0639

3.9 Building Construction 5 - 2021**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	1.2362	11.3954	10.2665	0.0180		0.5529	0.5529		0.5146	0.5146		1,704.7625	1,704.7625	0.5113		1,717.5442
Total	1.2362	11.3954	10.2665	0.0180		0.5529	0.5529		0.5146	0.5146		1,704.7625	1,704.7625	0.5113		1,717.5442

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	0.0302	1.0183	0.2595	2.7100e-003	0.0677	2.1400e-003	0.0698	0.0195	2.0500e-003	0.0215		291.3520	291.3520	0.0208		291.8724
Worker	0.0692	0.0449	0.5305	1.6300e-003	0.1643	1.1300e-003	0.1654	0.0436	1.0500e-003	0.0446		162.8882	162.8882	4.6500e-003		163.0044
Total	0.0994	1.0632	0.7900	4.3400e-003	0.2320	3.2700e-003	0.2353	0.0631	3.1000e-003	0.0662		454.2401	454.2401	0.0255		454.8768

Bonita Vista High School Track and Field Project - San Diego County APCD Air District, Summer

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	1.2362	11.3954	10.2665	0.0180		0.5529	0.5529		0.5146	0.5146	0.0000	1,704.7625	1,704.7625	0.5113		1,717.5442
Total	1.2362	11.3954	10.2665	0.0180		0.5529	0.5529		0.5146	0.5146	0.0000	1,704.7625	1,704.7625	0.5113		1,717.5442

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	0.0302	1.0183	0.2595	2.7100e-003	0.0677	2.1400e-003	0.0698	0.0195	2.0500e-003	0.0215		291.3520	291.3520	0.0208		291.8724
Worker	0.0692	0.0449	0.5305	1.6300e-003	0.1643	1.1300e-003	0.1654	0.0436	1.0500e-003	0.0446		162.8882	162.8882	4.6500e-003		163.0044
Total	0.0994	1.0632	0.7900	4.3400e-003	0.2320	3.2700e-003	0.2353	0.0631	3.1000e-003	0.0662		454.2401	454.2401	0.0255		454.8768

Bonita Vista High School Track and Field Project - San Diego County APCD Air District, Summer

3.10 Paving 1 - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6278	6.4596	7.3266	0.0114		0.3389	0.3389		0.3118	0.3118		1,103.605 4	1,103.605 4	0.3569		1,112.528 6
Paving	0.7546					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.3823	6.4596	7.3266	0.0114		0.3389	0.3389		0.3118	0.3118		1,103.605 4	1,103.605 4	0.3569		1,112.528 6

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	6.0500e-003	0.2037	0.0519	5.4000e-004	0.0135	4.3000e-004	0.0140	3.9000e-003	4.1000e-004	4.3100e-003		58.2704	58.2704	4.1600e-003		58.3745
Worker	0.0519	0.0337	0.3979	1.2300e-003	0.1232	8.5000e-004	0.1241	0.0327	7.8000e-004	0.0335		122.1661	122.1661	3.4900e-003		122.2533
Total	0.0579	0.2374	0.4498	1.7700e-003	0.1368	1.2800e-003	0.1380	0.0366	1.1900e-003	0.0378		180.4365	180.4365	7.6500e-003		180.6278

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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6278	6.4596	7.3266	0.0114		0.3389	0.3389		0.3118	0.3118	0.0000	1,103.605 4	1,103.605 4	0.3569		1,112.528 6
Paving	0.7546					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.3823	6.4596	7.3266	0.0114		0.3389	0.3389		0.3118	0.3118	0.0000	1,103.605 4	1,103.605 4	0.3569		1,112.528 6

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	6.0500e-003	0.2037	0.0519	5.4000e-004	0.0135	4.3000e-004	0.0140	3.9000e-003	4.1000e-004	4.3100e-003		58.2704	58.2704	4.1600e-003		58.3745
Worker	0.0519	0.0337	0.3979	1.2300e-003	0.1232	8.5000e-004	0.1241	0.0327	7.8000e-004	0.0335		122.1661	122.1661	3.4900e-003		122.2533
Total	0.0579	0.2374	0.4498	1.7700e-003	0.1368	1.2800e-003	0.1380	0.0366	1.1900e-003	0.0378		180.4365	180.4365	7.6500e-003		180.6278

3.11 Paving 2 - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6278	6.4596	7.3266	0.0114		0.3389	0.3389		0.3118	0.3118		1,103.605 4	1,103.605 4	0.3569		1,112.528 6
Paving	0.3773					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0051	6.4596	7.3266	0.0114		0.3389	0.3389		0.3118	0.3118		1,103.605 4	1,103.605 4	0.3569		1,112.528 6

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	6.0500e-003	0.2037	0.0519	5.4000e-004	0.0135	4.3000e-004	0.0140	3.9000e-003	4.1000e-004	4.3100e-003		58.2704	58.2704	4.1600e-003		58.3745
Worker	0.0519	0.0337	0.3979	1.2300e-003	0.1232	8.5000e-004	0.1241	0.0327	7.8000e-004	0.0335		122.1661	122.1661	3.4900e-003		122.2533
Total	0.0579	0.2374	0.4498	1.7700e-003	0.1368	1.2800e-003	0.1380	0.0366	1.1900e-003	0.0378		180.4365	180.4365	7.6500e-003		180.6278

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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6278	6.4596	7.3266	0.0114		0.3389	0.3389		0.3118	0.3118	0.0000	1,103.605 4	1,103.605 4	0.3569		1,112.528 6
Paving	0.3773					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0051	6.4596	7.3266	0.0114		0.3389	0.3389		0.3118	0.3118	0.0000	1,103.605 4	1,103.605 4	0.3569		1,112.528 6

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	6.0500e-003	0.2037	0.0519	5.4000e-004	0.0135	4.3000e-004	0.0140	3.9000e-003	4.1000e-004	4.3100e-003		58.2704	58.2704	4.1600e-003		58.3745
Worker	0.0519	0.0337	0.3979	1.2300e-003	0.1232	8.5000e-004	0.1241	0.0327	7.8000e-004	0.0335		122.1661	122.1661	3.4900e-003		122.2533
Total	0.0579	0.2374	0.4498	1.7700e-003	0.1368	1.2800e-003	0.1380	0.0366	1.1900e-003	0.0378		180.4365	180.4365	7.6500e-003		180.6278

CalEEMod Output Files – Construction (Winter)

Bonita Vista High School Track and Field Project
San Diego County APCD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	125.56	1000sqft	2.88	125,557.00	0
City Park	1.73	Acre	1.73	75,260.00	0
City Park	2.43	Acre	2.43	106,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13	Operational Year	2022		
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MW hr)	720.49	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Bonita Vista High School Track and Field Project. SDAPCD. Modeling construction emissions only.

Land Use - Project includes 60,012 sf in new paving, 65,545 sf of track, 75,260 sf of practice field, and 106,000 sf of landscaping. New 2,545 sf concessions/restrooms building.

Construction Phase - Construction would occur April 2021 through October 2021.

Off-road Equipment - Updated equipment per applicant.

Off-road Equipment - Updated equipment per applicant.

Off-road Equipment - Updated equipment per applicant.

Off-road Equipment - Updated equipment per applicant.

Off-road Equipment - Updated equipment per applicant.

Off-road Equipment - Updated equipment per applicant.

Off-road Equipment - Updated equipment per applicant.

Off-road Equipment - Updated equipment per applicant.

Off-road Equipment - Updated equipment per applicant.

Off-road Equipment - Updated equipment per applicant.

Trips and VMT - Updated trips per applicant.

Construction Off-road Equipment Mitigation - Water project site twice daily.

Bonita Vista High School Track and Field Project - San Diego County APCD Air District, Winter

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	12.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstructionPhase	NumDays	230.00	70.00
tblConstructionPhase	NumDays	230.00	5.00
tblConstructionPhase	NumDays	230.00	22.00
tblConstructionPhase	NumDays	230.00	15.00
tblConstructionPhase	NumDays	230.00	23.00
tblConstructionPhase	NumDays	20.00	15.00
tblConstructionPhase	NumDays	20.00	13.00
tblConstructionPhase	NumDays	20.00	10.00
tblGrading	AcresOfGrading	6.50	10.00
tblLandUse	LandUseSquareFeet	125,560.00	125,557.00
tblLandUse	LandUseSquareFeet	75,358.80	75,260.00
tblLandUse	LandUseSquareFeet	105,850.80	106,000.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00

Bonita Vista High School Track and Field Project - San Diego County APCD Air District, Winter

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Building Construction 2
tblOffRoadEquipment	PhaseName		Building Construction 5
tblOffRoadEquipment	PhaseName		Building Construction 5
tblOffRoadEquipment	UsageHours	7.00	8.00
tblTripsAndVMT	HaulingTripNumber	0.00	3.00
tblTripsAndVMT	HaulingTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	50.00	4.00
tblTripsAndVMT	VendorTripNumber	50.00	3.00
tblTripsAndVMT	VendorTripNumber	50.00	3.00
tblTripsAndVMT	VendorTripNumber	50.00	3.00
tblTripsAndVMT	VendorTripNumber	50.00	10.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	10.00	15.00
tblTripsAndVMT	WorkerTripNumber	8.00	15.00
tblTripsAndVMT	WorkerTripNumber	5.00	18.00
tblTripsAndVMT	WorkerTripNumber	20.00	15.00
tblTripsAndVMT	WorkerTripNumber	129.00	20.00

Bonita Vista High School Track and Field Project - San Diego County APCD Air District, Winter

tblTripsAndVMT	WorkerTripNumber	129.00	10.00
tblTripsAndVMT	WorkerTripNumber	129.00	10.00
tblTripsAndVMT	WorkerTripNumber	129.00	10.00
tblTripsAndVMT	WorkerTripNumber	129.00	20.00
tblTripsAndVMT	WorkerTripNumber	8.00	15.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	4.6657	46.6174	36.7557	0.0674	6.1700	2.2416	6.8152	3.3495	2.0817	3.9431	0.0000	6,497.7485	6,497.7485	1.7761	0.0000	6,542.1518
Maximum	4.6657	46.6174	36.7557	0.0674	6.1700	2.2416	6.8152	3.3495	2.0817	3.9431	0.0000	6,497.7485	6,497.7485	1.7761	0.0000	6,542.1518

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	4.6657	46.6174	36.7557	0.0674	2.8578	2.2416	4.2864	1.5288	2.0817	2.9524	0.0000	6,497.7485	6,497.7485	1.7761	0.0000	6,542.1518
Maximum	4.6657	46.6174	36.7557	0.0674	2.8578	2.2416	4.2864	1.5288	2.0817	2.9524	0.0000	6,497.7485	6,497.7485	1.7761	0.0000	6,542.1518

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	4/19/2021	5/7/2021	5	15	
2	Site Preparation	Site Preparation	5/10/2021	5/21/2021	5	10	
3	Grading	Grading	5/24/2021	6/9/2021	5	13	
4	Building Construction 1	Building Construction	6/7/2021	9/10/2021	5	70	Construction of concessions/restrooms
5	Building Construction 2	Building Construction	6/23/2021	6/29/2021	5	5	Replacement of track
6	Building Construction 3	Building Construction	6/30/2021	7/29/2021	5	22	Replacement of turf fields
7	Building Construction 4	Building Construction	7/30/2021	8/19/2021	5	15	Replacement of track
8	Building Construction 5	Building Construction	9/1/2021	10/1/2021	5	23	Installation of bleachers/lighting/other
9	Paving 1	Paving	9/13/2021	9/24/2021	5	10	
10	Paving 2	Paving	10/4/2021	10/29/2021	5	20	

Acres of Grading (Site Preparation Phase): 0**Acres of Grading (Grading Phase): 10****Acres of Paving: 2.88****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0**

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	2	8.00	158	0.38
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	2	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 1	Forklifts	3	8.00	89	0.20
Building Construction 1	Generator Sets	1	8.00	84	0.74
Building Construction 1	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction 1	Welders	1	8.00	46	0.45
Building Construction 2	Forklifts	3	8.00	89	0.20
Building Construction 2	Paving Equipment	1	8.00	132	0.36
Building Construction 3	Forklifts	2	8.00	89	0.20
Building Construction 4	Forklifts	2	8.00	89	0.20
Building Construction 5	Aerial Lifts	1	7.00	63	0.31
Building Construction 5	Cranes	1	8.00	231	0.29
Building Construction 5	Excavators	1	8.00	158	0.38
Building Construction 5	Forklifts	2	8.00	89	0.20
Building Construction 5	Welders	1	8.00	46	0.45
Paving 1	Pavers	1	8.00	130	0.42
Paving 1	Paving Equipment	1	8.00	132	0.36
Paving 1	Rollers	1	8.00	80	0.38
Paving 2	Pavers	1	8.00	130	0.42
Paving 2	Paving Equipment	1	8.00	132	0.36
Paving 2	Rollers	1	8.00	80	0.38

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Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	4	15.00	0.00	3.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	15.00	0.00	6.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	20.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1 Building Construction	4	10.00	3.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
2 Building Construction	2	10.00	3.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
3 Building Construction	2	10.00	3.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
4 Building Construction	6	20.00	10.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
5 Paving 1	3	15.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving 2	3	15.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 2021**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	1.8896	18.3160	14.2554	0.0251		0.9145	0.9145		0.8551	0.8551		2,420.4008	2,420.4008	0.6255		2,436.0393
Total	1.8896	18.3160	14.2554	0.0251		0.9145	0.9145		0.8551	0.8551		2,420.4008	2,420.4008	0.6255		2,436.0393

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	1.5300e-003	0.0517	0.0133	1.5000e-004	3.4900e-003	1.6000e-004	3.6500e-003	9.6000e-004	1.5000e-004	1.1100e-003		16.6214	16.6214	1.5400e-003		16.6600
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	0.0588	0.0378	0.3740	1.1500e-003	0.1232	8.5000e-004	0.1241	0.0327	7.8000e-004	0.0335		114.6821	114.6821	3.2900e-003		114.7645
Total	0.0604	0.0896	0.3873	1.3000e-003	0.1267	1.0100e-003	0.1277	0.0336	9.3000e-004	0.0346		131.3035	131.3035	4.8300e-003		131.4245

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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	1.8896	18.3160	14.2554	0.0251		0.9145	0.9145		0.8551	0.8551	0.0000	2,420.4008	2,420.4008	0.6255		2,436.0393
Total	1.8896	18.3160	14.2554	0.0251		0.9145	0.9145		0.8551	0.8551	0.0000	2,420.4008	2,420.4008	0.6255		2,436.0393

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	1.5300e-003	0.0517	0.0133	1.5000e-004	3.4900e-003	1.6000e-004	3.6500e-003	9.6000e-004	1.5000e-004	1.1100e-003		16.6214	16.6214	1.5400e-003		16.6600
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	0.0588	0.0378	0.3740	1.1500e-003	0.1232	8.5000e-004	0.1241	0.0327	7.8000e-004	0.0335		114.6821	114.6821	3.2900e-003		114.7645
Total	0.0604	0.0896	0.3873	1.3000e-003	0.1267	1.0100e-003	0.1277	0.0336	9.3000e-004	0.0346		131.3035	131.3035	4.8300e-003		131.4245

3.3 Site Preparation - 2021**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					6.0221	0.0000	6.0221	3.3102	0.0000	3.3102			0.0000			0.0000
Off-Road	1.2336	12.8671	6.2980	0.0116		0.6442	0.6442		0.5927	0.5927		1,128.2523	1,128.2523	0.3649		1,137.3748
Total	1.2336	12.8671	6.2980	0.0116	6.0221	0.6442	6.6663	3.3102	0.5927	3.9029		1,128.2523	1,128.2523	0.3649		1,137.3748

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	0.0706	0.0454	0.4488	1.3800e-003	0.1479	1.0200e-003	0.1489	0.0392	9.4000e-004	0.0402		137.6186	137.6186	3.9500e-003		137.7174
Total	0.0706	0.0454	0.4488	1.3800e-003	0.1479	1.0200e-003	0.1489	0.0392	9.4000e-004	0.0402		137.6186	137.6186	3.9500e-003		137.7174

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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					2.7099	0.0000	2.7099	1.4896	0.0000	1.4896			0.0000			0.0000
Off-Road	1.2336	12.8671	6.2980	0.0116		0.6442	0.6442		0.5927	0.5927	0.0000	1,128.2523	1,128.2523	0.3649		1,137.3748
Total	1.2336	12.8671	6.2980	0.0116	2.7099	0.6442	3.3542	1.4896	0.5927	2.0823	0.0000	1,128.2523	1,128.2523	0.3649		1,137.3748

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	0.0706	0.0454	0.4488	1.3800e-003	0.1479	1.0200e-003	0.1489	0.0392	9.4000e-004	0.0402		137.6186	137.6186	3.9500e-003		137.7174
Total	0.0706	0.0454	0.4488	1.3800e-003	0.1479	1.0200e-003	0.1489	0.0392	9.4000e-004	0.0402		137.6186	137.6186	3.9500e-003		137.7174

3.4 Grading - 2021**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					3.8268	0.0000	3.8268	1.7432	0.0000	1.7432			0.0000			0.0000
Off-Road	2.9725	32.8147	20.8965	0.0414		1.4521	1.4521		1.3359	1.3359		4,013.8046	4,013.8046	1.2982		4,046.2582
Total	2.9725	32.8147	20.8965	0.0414	3.8268	1.4521	5.2789	1.7432	1.3359	3.0791		4,013.8046	4,013.8046	1.2982		4,046.2582

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	3.5200e-003	0.1193	0.0308	3.5000e-004	8.0600e-003	3.7000e-004	8.4300e-003	2.2100e-003	3.5000e-004	2.5600e-003		38.3570	38.3570	3.5600e-003		38.4461
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	0.0588	0.0378	0.3740	1.1500e-003	0.1232	8.5000e-004	0.1241	0.0327	7.8000e-004	0.0335		114.6821	114.6821	3.2900e-003		114.7645
Total	0.0624	0.1572	0.4048	1.5000e-003	0.1313	1.2200e-003	0.1325	0.0349	1.1300e-003	0.0360		153.0392	153.0392	6.8500e-003		153.2106

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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.7221	0.0000	1.7221	0.7844	0.0000	0.7844			0.0000			0.0000
Off-Road	2.9725	32.8147	20.8965	0.0414		1.4521	1.4521		1.3359	1.3359	0.0000	4,013.804 6	4,013.804 6	1.2982		4,046.258 2
Total	2.9725	32.8147	20.8965	0.0414	1.7221	1.4521	3.1741	0.7844	1.3359	2.1203	0.0000	4,013.804 6	4,013.804 6	1.2982		4,046.258 2

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.5200e-003	0.1193	0.0308	3.5000e-004	8.0600e-003	3.7000e-004	8.4300e-003	2.2100e-003	3.5000e-004	2.5600e-003		38.3570	38.3570	3.5600e-003		38.4461
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	0.0588	0.0378	0.3740	1.1500e-003	0.1232	8.5000e-004	0.1241	0.0327	7.8000e-004	0.0335		114.6821	114.6821	3.2900e-003		114.7645
Total	0.0624	0.1572	0.4048	1.5000e-003	0.1313	1.2200e-003	0.1325	0.0349	1.1300e-003	0.0360		153.0392	153.0392	6.8500e-003		153.2106

3.5 Building Construction 1 - 2021**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	1.5396	13.1889	14.8402	0.0219		0.7864	0.7864		0.7428	0.7428		2,064.4675	2,064.4675	0.4579		2,075.9149
Total	1.5396	13.1889	14.8402	0.0219		0.7864	0.7864		0.7428	0.7428		2,064.4675	2,064.4675	0.4579		2,075.9149

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	0.0128	0.4062	0.1156	1.0600e-003	0.0271	8.9000e-004	0.0280	7.8000e-003	8.5000e-004	8.6500e-003		113.5277	113.5277	8.8400e-003		113.7488
Worker	0.0785	0.0505	0.4987	1.5300e-003	0.1643	1.1300e-003	0.1654	0.0436	1.0500e-003	0.0446		152.9095	152.9095	4.3900e-003		153.0193
Total	0.0912	0.4567	0.6142	2.5900e-003	0.1914	2.0200e-003	0.1934	0.0514	1.9000e-003	0.0533		266.4372	266.4372	0.0132		266.7682

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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	1.5396	13.1889	14.8402	0.0219		0.7864	0.7864		0.7428	0.7428	0.0000	2,064.4675	2,064.4675	0.4579		2,075.9149
Total	1.5396	13.1889	14.8402	0.0219		0.7864	0.7864		0.7428	0.7428	0.0000	2,064.4675	2,064.4675	0.4579		2,075.9149

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	0.0128	0.4062	0.1156	1.0600e-003	0.0271	8.9000e-004	0.0280	7.8000e-003	8.5000e-004	8.6500e-003		113.5277	113.5277	8.8400e-003		113.7488
Worker	0.0785	0.0505	0.4987	1.5300e-003	0.1643	1.1300e-003	0.1654	0.0436	1.0500e-003	0.0446		152.9095	152.9095	4.3900e-003		153.0193
Total	0.0912	0.4567	0.6142	2.5900e-003	0.1914	2.0200e-003	0.1934	0.0514	1.9000e-003	0.0533		266.4372	266.4372	0.0132		266.7682

3.6 Building Construction 2 - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5800	5.4777	6.0449	8.6600e-003		0.3469	0.3469		0.3192	0.3192		838.5482	838.5482	0.2712		845.3283
Total	0.5800	5.4777	6.0449	8.6600e-003		0.3469	0.3469		0.3192	0.3192		838.5482	838.5482	0.2712		845.3283

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	9.5600e-003	0.3047	0.0867	7.9000e-004	0.0203	6.7000e-004	0.0210	5.8500e-003	6.4000e-004	6.4800e-003		85.1458	85.1458	6.6300e-003		85.3116
Worker	0.0392	0.0252	0.2493	7.7000e-004	0.0822	5.7000e-004	0.0827	0.0218	5.2000e-004	0.0223		76.4548	76.4548	2.2000e-003		76.5097
Total	0.0488	0.3299	0.3360	1.5600e-003	0.1025	1.2400e-003	0.1037	0.0276	1.1600e-003	0.0288		161.6006	161.6006	8.8300e-003		161.8213

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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5800	5.4777	6.0449	8.6600e-003		0.3469	0.3469		0.3192	0.3192	0.0000	838.5482	838.5482	0.2712		845.3283
Total	0.5800	5.4777	6.0449	8.6600e-003		0.3469	0.3469		0.3192	0.3192	0.0000	838.5482	838.5482	0.2712		845.3283

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	9.5600e-003	0.3047	0.0867	7.9000e-004	0.0203	6.7000e-004	0.0210	5.8500e-003	6.4000e-004	6.4800e-003		85.1458	85.1458	6.6300e-003		85.3116
Worker	0.0392	0.0252	0.2493	7.7000e-004	0.0822	5.7000e-004	0.0827	0.0218	5.2000e-004	0.0223		76.4548	76.4548	2.2000e-003		76.5097
Total	0.0488	0.3299	0.3360	1.5600e-003	0.1025	1.2400e-003	0.1037	0.0276	1.1600e-003	0.0288		161.6006	161.6006	8.8300e-003		161.8213

3.7 Building Construction 3 - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2587	2.3583	2.3357	3.0600e-003		0.1674	0.1674		0.1540	0.1540		296.0617	296.0617	0.0958		298.4555
Total	0.2587	2.3583	2.3357	3.0600e-003		0.1674	0.1674		0.1540	0.1540		296.0617	296.0617	0.0958		298.4555

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	9.5600e-003	0.3047	0.0867	7.9000e-004	0.0203	6.7000e-004	0.0210	5.8500e-003	6.4000e-004	6.4800e-003		85.1458	85.1458	6.6300e-003		85.3116
Worker	0.0392	0.0252	0.2493	7.7000e-004	0.0822	5.7000e-004	0.0827	0.0218	5.2000e-004	0.0223		76.4548	76.4548	2.2000e-003		76.5097
Total	0.0488	0.3299	0.3360	1.5600e-003	0.1025	1.2400e-003	0.1037	0.0276	1.1600e-003	0.0288		161.6006	161.6006	8.8300e-003		161.8213

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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2587	2.3583	2.3357	3.0600e-003		0.1674	0.1674		0.1540	0.1540	0.0000	296.0617	296.0617	0.0958		298.4555
Total	0.2587	2.3583	2.3357	3.0600e-003		0.1674	0.1674		0.1540	0.1540	0.0000	296.0617	296.0617	0.0958		298.4555

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	9.5600e-003	0.3047	0.0867	7.9000e-004	0.0203	6.7000e-004	0.0210	5.8500e-003	6.4000e-004	6.4800e-003		85.1458	85.1458	6.6300e-003		85.3116
Worker	0.0392	0.0252	0.2493	7.7000e-004	0.0822	5.7000e-004	0.0827	0.0218	5.2000e-004	0.0223		76.4548	76.4548	2.2000e-003		76.5097
Total	0.0488	0.3299	0.3360	1.5600e-003	0.1025	1.2400e-003	0.1037	0.0276	1.1600e-003	0.0288		161.6006	161.6006	8.8300e-003		161.8213

3.8 Building Construction 4 - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2587	2.3583	2.3357	3.0600e-003		0.1674	0.1674		0.1540	0.1540		296.0617	296.0617	0.0958		298.4555
Total	0.2587	2.3583	2.3357	3.0600e-003		0.1674	0.1674		0.1540	0.1540		296.0617	296.0617	0.0958		298.4555

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	9.5600e-003	0.3047	0.0867	7.9000e-004	0.0348	6.7000e-004	0.0355	9.4000e-003	6.4000e-004	0.0100		85.1458	85.1458	6.6300e-003		85.3116
Worker	0.0392	0.0252	0.2493	7.7000e-004	0.1535	5.7000e-004	0.1541	0.0393	5.2000e-004	0.0398		76.4548	76.4548	2.2000e-003		76.5097
Total	0.0488	0.3299	0.3360	1.5600e-003	0.1883	1.2400e-003	0.1896	0.0487	1.1600e-003	0.0499		161.6006	161.6006	8.8300e-003		161.8213

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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2587	2.3583	2.3357	3.0600e-003		0.1674	0.1674		0.1540	0.1540	0.0000	296.0617	296.0617	0.0958		298.4555
Total	0.2587	2.3583	2.3357	3.0600e-003		0.1674	0.1674		0.1540	0.1540	0.0000	296.0617	296.0617	0.0958		298.4555

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	9.5600e-003	0.3047	0.0867	7.9000e-004	0.0348	6.7000e-004	0.0355	9.4000e-003	6.4000e-004	0.0100		85.1458	85.1458	6.6300e-003		85.3116
Worker	0.0392	0.0252	0.2493	7.7000e-004	0.1535	5.7000e-004	0.1541	0.0393	5.2000e-004	0.0398		76.4548	76.4548	2.2000e-003		76.5097
Total	0.0488	0.3299	0.3360	1.5600e-003	0.1883	1.2400e-003	0.1896	0.0487	1.1600e-003	0.0499		161.6006	161.6006	8.8300e-003		161.8213

3.9 Building Construction 5 - 2021**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	1.2362	11.3954	10.2665	0.0180		0.5529	0.5529		0.5146	0.5146		1,704.7625	1,704.7625	0.5113		1,717.5442
Total	1.2362	11.3954	10.2665	0.0180		0.5529	0.5529		0.5146	0.5146		1,704.7625	1,704.7625	0.5113		1,717.5442

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	0.0319	1.0156	0.2890	2.6400e-003	0.0677	2.2300e-003	0.0699	0.0195	2.1300e-003	0.0216		283.8193	283.8193	0.0221		284.3721
Worker	0.0785	0.0505	0.4987	1.5300e-003	0.1643	1.1300e-003	0.1654	0.0436	1.0500e-003	0.0446		152.9095	152.9095	4.3900e-003		153.0193
Total	0.1103	1.0660	0.7876	4.1700e-003	0.2320	3.3600e-003	0.2354	0.0631	3.1800e-003	0.0662		436.7288	436.7288	0.0265		437.3914

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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	1.2362	11.3954	10.2665	0.0180		0.5529	0.5529		0.5146	0.5146	0.0000	1,704.7625	1,704.7625	0.5113		1,717.5442
Total	1.2362	11.3954	10.2665	0.0180		0.5529	0.5529		0.5146	0.5146	0.0000	1,704.7625	1,704.7625	0.5113		1,717.5442

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	0.0319	1.0156	0.2890	2.6400e-003	0.0677	2.2300e-003	0.0699	0.0195	2.1300e-003	0.0216		283.8193	283.8193	0.0221		284.3721
Worker	0.0785	0.0505	0.4987	1.5300e-003	0.1643	1.1300e-003	0.1654	0.0436	1.0500e-003	0.0446		152.9095	152.9095	4.3900e-003		153.0193
Total	0.1103	1.0660	0.7876	4.1700e-003	0.2320	3.3600e-003	0.2354	0.0631	3.1800e-003	0.0662		436.7288	436.7288	0.0265		437.3914

3.10 Paving 1 - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6278	6.4596	7.3266	0.0114		0.3389	0.3389		0.3118	0.3118		1,103.605 4	1,103.605 4	0.3569		1,112.528 6
Paving	0.7546					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.3823	6.4596	7.3266	0.0114		0.3389	0.3389		0.3118	0.3118		1,103.605 4	1,103.605 4	0.3569		1,112.528 6

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	6.3700e-003	0.2031	0.0578	5.3000e-004	0.0135	4.5000e-004	0.0140	3.9000e-003	4.3000e-004	4.3200e-003		56.7639	56.7639	4.4200e-003		56.8744
Worker	0.0588	0.0378	0.3740	1.1500e-003	0.1232	8.5000e-004	0.1241	0.0327	7.8000e-004	0.0335		114.6821	114.6821	3.2900e-003		114.7645
Total	0.0652	0.2410	0.4318	1.6800e-003	0.1368	1.3000e-003	0.1381	0.0366	1.2100e-003	0.0378		171.4460	171.4460	7.7100e-003		171.6389

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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	lb/day										lb/day					
Off-Road	0.6278	6.4596	7.3266	0.0114		0.3389	0.3389		0.3118	0.3118	0.0000	1,103.6054	1,103.6054	0.3569		1,112.5286
Paving	0.7546					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.3823	6.4596	7.3266	0.0114		0.3389	0.3389		0.3118	0.3118	0.0000	1,103.6054	1,103.6054	0.3569		1,112.5286

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	6.3700e-003	0.2031	0.0578	5.3000e-004	0.0135	4.5000e-004	0.0140	3.9000e-003	4.3000e-004	4.3200e-003		56.7639	56.7639	4.4200e-003		56.8744
Worker	0.0588	0.0378	0.3740	1.1500e-003	0.1232	8.5000e-004	0.1241	0.0327	7.8000e-004	0.0335		114.6821	114.6821	3.2900e-003		114.7645
Total	0.0652	0.2410	0.4318	1.6800e-003	0.1368	1.3000e-003	0.1381	0.0366	1.2100e-003	0.0378		171.4460	171.4460	7.7100e-003		171.6389

3.11 Paving 2 - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6278	6.4596	7.3266	0.0114		0.3389	0.3389		0.3118	0.3118		1,103.605 4	1,103.605 4	0.3569		1,112.528 6
Paving	0.3773					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0051	6.4596	7.3266	0.0114		0.3389	0.3389		0.3118	0.3118		1,103.605 4	1,103.605 4	0.3569		1,112.528 6

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	6.3700e-003	0.2031	0.0578	5.3000e-004	0.0135	4.5000e-004	0.0140	3.9000e-003	4.3000e-004	4.3200e-003		56.7639	56.7639	4.4200e-003		56.8744
Worker	0.0588	0.0378	0.3740	1.1500e-003	0.1232	8.5000e-004	0.1241	0.0327	7.8000e-004	0.0335		114.6821	114.6821	3.2900e-003		114.7645
Total	0.0652	0.2410	0.4318	1.6800e-003	0.1368	1.3000e-003	0.1381	0.0366	1.2100e-003	0.0378		171.4460	171.4460	7.7100e-003		171.6389

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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6278	6.4596	7.3266	0.0114		0.3389	0.3389		0.3118	0.3118	0.0000	1,103.605 4	1,103.605 4	0.3569		1,112.528 6
Paving	0.3773					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0051	6.4596	7.3266	0.0114		0.3389	0.3389		0.3118	0.3118	0.0000	1,103.605 4	1,103.605 4	0.3569		1,112.528 6

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	6.3700e-003	0.2031	0.0578	5.3000e-004	0.0135	4.5000e-004	0.0140	3.9000e-003	4.3000e-004	4.3200e-003		56.7639	56.7639	4.4200e-003		56.8744
Worker	0.0588	0.0378	0.3740	1.1500e-003	0.1232	8.5000e-004	0.1241	0.0327	7.8000e-004	0.0335		114.6821	114.6821	3.2900e-003		114.7645
Total	0.0652	0.2410	0.4318	1.6800e-003	0.1368	1.3000e-003	0.1381	0.0366	1.2100e-003	0.0378		171.4460	171.4460	7.7100e-003		171.6389

Construction HRA Output Files and Assumptions

BVHS**Construction HRA****Project Construction Emissions**

	Unmitigated	Mitigated
Year	DPM tons/year	DPM tons/year
2021	0.0625	0.00811
Total	0.063	0.008
Total Lbs	125.000	16.220
Lbs/year	179.945	23.350
Lbs/hour	0.09	0.01

Conversions:

1 ton = 2,000 lb

Construction = 8 hours/day
 2096 hours/year
 262 days/year
 12 months

Project Construction: 182 days
 0.69 years

AERMOD Assumptions

Source Name	Description	No. of Vol. Sources	Emission Rate g/s	Release Height m	Plume Height m	Plume Width m
SLINE1	Construction	144	1.00	5.00	2.33	11.63

Receptor Grid

Name	Grid Size	Spacing
UCART1	1 km x 1 km	20 m

Meteorological Data

Station Name	Years	Lat	Long	Elev (m)
Donavan State Prison	2016-2018	32.5846	-116.9334	190

Source: <https://www.arb.ca.gov/toxics/harp/metfiles2.htm>**Population**

Zip Code	2010 Population
91913	40,971

Source: <https://www.census.gov/quickfacts/fact/table/chulavistacitycalifornia,US/PST045219>**Other Model Assumption**

Terrain Data	NED 1/3
Lakes Version	9.6.5
AERMOD Version	18081

Results

	Residential Receptor 565	
	Unmitigated	Mitigated
Cancer	36.96	4.69
Chronic	0.02	0.01
Acute	0.00	0.00

	School Receptor 606	
	Unmitigated	Mitigated
Cancer	5.95	0.77
Chronic	0.05	0.01
Acute	0.00	0.00

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1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	125.56	1000sqft	2.88	125,557.00	0
City Park	1.73	Acre	1.73	75,260.00	0
City Park	2.43	Acre	2.43	106,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2022
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MW hr)	720.49	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Bonita Vista High School Track and Field Project. SDAPCD. Modeling construction emissions only.

Land Use - Project includes 60,012 sf in new paving, 65,545 sf of track, 75,260 sf of practice field, and 106,000 sf of landscaping. New 2,545 sf concessions/restrooms building.

Construction Phase - Construction would occur April 2021 through October 2021.

Off-road Equipment - Updated equipment per applicant.

Off-road Equipment - Updated equipment per applicant.

Off-road Equipment - Updated equipment per applicant.

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Off-road Equipment - Updated equipment per applicant.

Off-road Equipment - Updated equipment per applicant.

Off-road Equipment - Updated equipment per applicant.

Off-road Equipment - Updated equipment per applicant.

Off-road Equipment - Updated equipment per applicant.

Off-road Equipment - Updated equipment per applicant.

Off-road Equipment - Updated equipment per applicant.

Trips and VMT - Updated trips per applicant. Updated trip length for vendor and haul trips (0.19 mile).

Construction Off-road Equipment Mitigation - Water project site twice daily. Use of Tier 3 equipment with DPF.

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
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tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	12.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00

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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
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tblConstEquipMitigation	Tier	No Change	Tier 3
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tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	230.00	70.00
tblConstructionPhase	NumDays	230.00	5.00
tblConstructionPhase	NumDays	230.00	22.00
tblConstructionPhase	NumDays	230.00	15.00
tblConstructionPhase	NumDays	230.00	23.00
tblConstructionPhase	NumDays	20.00	15.00
tblConstructionPhase	NumDays	20.00	13.00
tblConstructionPhase	NumDays	20.00	10.00
tblGrading	AcresOfGrading	13.00	10.00
tblLandUse	LandUseSquareFeet	125,560.00	125,557.00
tblLandUse	LandUseSquareFeet	75,358.80	75,260.00
tblLandUse	LandUseSquareFeet	105,850.80	106,000.00

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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripNumber	0.00	3.00
tblTripsAndVMT	HaulingTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripLength	7.30	0.19
tblTripsAndVMT	VendorTripLength	7.30	0.19
tblTripsAndVMT	VendorTripLength	7.30	0.19
tblTripsAndVMT	VendorTripLength	7.30	0.19
tblTripsAndVMT	VendorTripLength	7.30	0.19
tblTripsAndVMT	VendorTripLength	7.30	0.19
tblTripsAndVMT	VendorTripLength	7.30	0.19
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	50.00	4.00
tblTripsAndVMT	VendorTripNumber	50.00	3.00
tblTripsAndVMT	VendorTripNumber	50.00	3.00

[illegible]

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.1315	1.1833	1.0852	1.7600e-003	0.0746	0.0625	0.1371	0.0387	0.0583	0.0970	0.0000	152.5289	152.5289	0.0409	0.0000	153.5507
Maximum	0.1315	1.1833	1.0852	1.7600e-003	0.0746	0.0625	0.1371	0.0387	0.0583	0.0970	0.0000	152.5289	152.5289	0.0409	0.0000	153.5507

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.0515	0.9220	1.1909	1.7600e-003	0.0336	8.1100e-003	0.0417	0.0174	8.1100e-003	0.0255	0.0000	152.5288	152.5288	0.0409	0.0000	153.5505
Maximum	0.0515	0.9220	1.1909	1.7600e-003	0.0336	8.1100e-003	0.0417	0.0174	8.1100e-003	0.0255	0.0000	152.5288	152.5288	0.0409	0.0000	153.5505

	ROG	NOx	CO	SO2	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	60.86	22.08	-9.74	0.00	54.95	87.02	69.56	54.97	86.09	73.68	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	4/19/2021	5/7/2021	5	15	
2	Site Preparation	Site Preparation	5/10/2021	5/21/2021	5	10	
3	Grading	Grading	5/24/2021	6/9/2021	5	13	
4	Building Construction 1	Building Construction	6/7/2021	9/10/2021	5	70	Construction of concessions/restrooms
5	Building Construction 2	Building Construction	6/23/2021	6/29/2021	5	5	Replacement of track
6	Building Construction 3	Building Construction	6/30/2021	7/29/2021	5	22	Replacement of turf fields
7	Building Construction 4	Building Construction	7/30/2021	8/19/2021	5	15	Replacement of track
8	Building Construction 5	Building Construction	9/1/2021	10/1/2021	5	23	Installation of bleachers/lighting/other
9	Paving 1	Paving	9/13/2021	9/24/2021	5	10	
10	Paving 2	Paving	10/4/2021	10/29/2021	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 10

Acres of Paving: 2.88

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	2	8.00	158	0.38
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	2	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 1	Forklifts	3	8.00	89	0.20
Building Construction 1	Generator Sets	1	8.00	84	0.74
Building Construction 1	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction 1	Welders	1	8.00	46	0.45
Building Construction 2	Forklifts	3	8.00	89	0.20
Building Construction 2	Paving Equipment	1	8.00	132	0.36
Building Construction 3	Forklifts	2	8.00	89	0.20
Building Construction 4	Forklifts	2	8.00	89	0.20
Building Construction 5	Aerial Lifts	1	7.00	63	0.31
Building Construction 5	Cranes	1	8.00	231	0.29
Building Construction 5	Excavators	1	8.00	158	0.38
Building Construction 5	Forklifts	2	8.00	89	0.20
Building Construction 5	Welders	1	8.00	46	0.45
Paving 1	Pavers	1	8.00	130	0.42
Paving 1	Paving Equipment	1	8.00	132	0.36
Paving 1	Rollers	1	8.00	80	0.38
Paving 2	Pavers	1	8.00	130	0.42
Paving 2	Paving Equipment	1	8.00	132	0.36
Paving 2	Rollers	1	8.00	80	0.38

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Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	4	0.00	0.00	3.00	10.80	7.30	0.19	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	0.00	0.00	6.00	10.80	7.30	0.19	LD_Mix	HDT_Mix	HHDT
Building Construction	8	0.00	4.00	0.00	10.80	0.19	20.00	LD_Mix	HDT_Mix	HHDT
1 Building Construction	4	0.00	3.00	0.00	10.80	0.19	20.00	LD_Mix	HDT_Mix	HHDT
2 Building Construction	2	0.00	3.00	0.00	10.80	0.19	20.00	LD_Mix	HDT_Mix	HHDT
3 Building Construction	2	0.00	3.00	0.00	10.80	0.19	20.00	LD_Mix	HDT_Mix	HHDT
4 Building Construction	6	0.00	10.00	0.00	10.80	0.19	20.00	LD_Mix	HDT_Mix	HHDT
5 Paving 1	3	0.00	2.00	0.00	10.80	0.19	20.00	LD_Mix	HDT_Mix	HHDT
Paving 2	3	0.00	2.00	0.00	10.80	0.19	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use DPF for Construction Equipment

Water Exposed Area

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3.2 Demolition - 2021**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	0.0142	0.1374	0.1069	1.9000e-004		6.8600e-003	6.8600e-003		6.4100e-003	6.4100e-003	0.0000	16.4681	16.4681	4.2600e-003	0.0000	16.5745
Total	0.0142	0.1374	0.1069	1.9000e-004		6.8600e-003	6.8600e-003		6.4100e-003	6.4100e-003	0.0000	16.4681	16.4681	4.2600e-003	0.0000	16.5745

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	1.4000e-004	2.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0156	0.0156	0.0000	0.0000	0.0157
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	0.0000	0.0000	0.0000	0.0000	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	0.0000	1.4000e-004	2.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0156	0.0156	0.0000	0.0000	0.0157

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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	4.4100e-003	0.0886	0.1217	1.9000e-004		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004	0.0000	16.4681	16.4681	4.2600e-003	0.0000	16.5745
Total	4.4100e-003	0.0886	0.1217	1.9000e-004		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004	0.0000	16.4681	16.4681	4.2600e-003	0.0000	16.5745

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	1.4000e-004	2.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0156	0.0156	0.0000	0.0000	0.0157
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	0.0000	0.0000	0.0000	0.0000	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	0.0000	1.4000e-004	2.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0156	0.0156	0.0000	0.0000	0.0157

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					0.0301	0.0000	0.0301	0.0166	0.0000	0.0166	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.1700e-003	0.0643	0.0315	6.0000e-005		3.2200e-003	3.2200e-003		2.9600e-003	2.9600e-003	0.0000	5.1177	5.1177	1.6600e-003	0.0000	5.1591
Total	6.1700e-003	0.0643	0.0315	6.0000e-005	0.0301	3.2200e-003	0.0333	0.0166	2.9600e-003	0.0195	0.0000	5.1177	5.1177	1.6600e-003	0.0000	5.1591

Unmitigated Construction Off-Site

[illegible]

	ROG	NOx	CO	SO2	Fugitive 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					0.0136	0.0000	0.0136	7.4500e-003	0.0000	7.4500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.4300e-003	0.0289	0.0344	6.0000e-005		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004	0.0000	5.1177	5.1177	1.6600e-003	0.0000	5.1590
Total	1.4300e-003	0.0289	0.0344	6.0000e-005	0.0136	2.1000e-004	0.0138	7.4500e-003	2.1000e-004	7.6600e-003	0.0000	5.1177	5.1177	1.6600e-003	0.0000	5.1590

[illegible]

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3.4 Grading - 2021**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					0.0445	0.0000	0.0445	0.0221	0.0000	0.0221	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0193	0.2133	0.1358	2.7000e-004		9.4400e-003	9.4400e-003		8.6800e-003	8.6800e-003	0.0000	23.6682	23.6682	7.6500e-003	0.0000	23.8596
Total	0.0193	0.2133	0.1358	2.7000e-004	0.0445	9.4400e-003	0.0539	0.0221	8.6800e-003	0.0308	0.0000	23.6682	23.6682	7.6500e-003	0.0000	23.8596

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	2.8000e-004	4.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0312	0.0312	1.0000e-005	0.0000	0.0314
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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	1.0000e-005	2.8000e-004	4.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0312	0.0312	1.0000e-005	0.0000	0.0314

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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					0.0200	0.0000	0.0200	9.9400e-003	0.0000	9.9400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.6000e-003	0.1328	0.1718	2.7000e-004		9.7000e-004	9.7000e-004		9.7000e-004	9.7000e-004	0.0000	23.6682	23.6682	7.6500e-003	0.0000	23.8596
Total	6.6000e-003	0.1328	0.1718	2.7000e-004	0.0200	9.7000e-004	0.0210	9.9400e-003	9.7000e-004	0.0109	0.0000	23.6682	23.6682	7.6500e-003	0.0000	23.8596

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	2.8000e-004	4.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0312	0.0312	1.0000e-005	0.0000	0.0314
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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	1.0000e-005	2.8000e-004	4.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0312	0.0312	1.0000e-005	0.0000	0.0314

3.5 Building Construction 1 - 2021**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	0.0539	0.4616	0.5194	7.7000e-004		0.0275	0.0275		0.0260	0.0260	0.0000	65.5499	65.5499	0.0145	0.0000	65.9133
Total	0.0539	0.4616	0.5194	7.7000e-004		0.0275	0.0275		0.0260	0.0260	0.0000	65.5499	65.5499	0.0145	0.0000	65.9133

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0000e-004	8.4400e-003	2.0800e-003	1.0000e-005	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.8066	0.8066	1.4000e-004	0.0000	0.8100
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	2.0000e-004	8.4400e-003	2.0800e-003	1.0000e-005	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.8066	0.8066	1.4000e-004	0.0000	0.8100

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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	0.0192	0.4140	0.5315	7.7000e-004		4.2700e-003	4.2700e-003		4.2700e-003	4.2700e-003	0.0000	65.5498	65.5498	0.0145	0.0000	65.9133
Total	0.0192	0.4140	0.5315	7.7000e-004		4.2700e-003	4.2700e-003		4.2700e-003	4.2700e-003	0.0000	65.5498	65.5498	0.0145	0.0000	65.9133

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0000e-004	8.4400e-003	2.0800e-003	1.0000e-005	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.8066	0.8066	1.4000e-004	0.0000	0.8100
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	2.0000e-004	8.4400e-003	2.0800e-003	1.0000e-005	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.8066	0.8066	1.4000e-004	0.0000	0.8100

3.6 Building Construction 2 - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.4500e-003	0.0137	0.0151	2.0000e-005		8.7000e-004	8.7000e-004		8.0000e-004	8.0000e-004	0.0000	1.9018	1.9018	6.2000e-004	0.0000	1.9172
Total	1.4500e-003	0.0137	0.0151	2.0000e-005		8.7000e-004	8.7000e-004		8.0000e-004	8.0000e-004	0.0000	1.9018	1.9018	6.2000e-004	0.0000	1.9172

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	1.0000e-005	4.5000e-004	1.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0432	0.0432	1.0000e-005	0.0000	0.0434
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	1.0000e-005	4.5000e-004	1.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0432	0.0432	1.0000e-005	0.0000	0.0434

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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	5.3000e-004	0.0113	0.0165	2.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	1.9018	1.9018	6.2000e-004	0.0000	1.9172
Total	5.3000e-004	0.0113	0.0165	2.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	1.9018	1.9018	6.2000e-004	0.0000	1.9172

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	1.0000e-005	4.5000e-004	1.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0432	0.0432	1.0000e-005	0.0000	0.0434
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	1.0000e-005	4.5000e-004	1.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0432	0.0432	1.0000e-005	0.0000	0.0434

3.7 Building Construction 3 - 2021**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	2.8500e-003	0.0259	0.0257	3.0000e-005		1.8400e-003	1.8400e-003		1.6900e-003	1.6900e-003	0.0000	2.9544	2.9544	9.6000e-004	0.0000	2.9783
Total	2.8500e-003	0.0259	0.0257	3.0000e-005		1.8400e-003	1.8400e-003		1.6900e-003	1.6900e-003	0.0000	2.9544	2.9544	9.6000e-004	0.0000	2.9783

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.0000e-005	1.9900e-003	4.9000e-004	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.1901	0.1901	3.0000e-005	0.0000	0.1909
Worker	0.0000	0.0000	0.0000	0.0000	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	5.0000e-005	1.9900e-003	4.9000e-004	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.1901	0.1901	3.0000e-005	0.0000	0.1909

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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	8.3000e-004	0.0189	0.0256	3.0000e-005		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	2.9544	2.9544	9.6000e-004	0.0000	2.9783
Total	8.3000e-004	0.0189	0.0256	3.0000e-005		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	2.9544	2.9544	9.6000e-004	0.0000	2.9783

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.0000e-005	1.9900e-003	4.9000e-004	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.1901	0.1901	3.0000e-005	0.0000	0.1909
Worker	0.0000	0.0000	0.0000	0.0000	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	5.0000e-005	1.9900e-003	4.9000e-004	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.1901	0.1901	3.0000e-005	0.0000	0.1909

3.8 Building Construction 4 - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.9400e-003	0.0177	0.0175	2.0000e-005		1.2600e-003	1.2600e-003		1.1600e-003	1.1600e-003	0.0000	2.0144	2.0144	6.5000e-004	0.0000	2.0307
Total	1.9400e-003	0.0177	0.0175	2.0000e-005		1.2600e-003	1.2600e-003		1.1600e-003	1.1600e-003	0.0000	2.0144	2.0144	6.5000e-004	0.0000	2.0307

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.0000e-005	1.3600e-003	3.3000e-004	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.1296	0.1296	2.0000e-005	0.0000	0.1302
Worker	0.0000	0.0000	0.0000	0.0000	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	3.0000e-005	1.3600e-003	3.3000e-004	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.1296	0.1296	2.0000e-005	0.0000	0.1302

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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					
Off-Road	5.7000e-004	0.0129	0.0174	2.0000e-005		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004	0.0000	2.0144	2.0144	6.5000e-004	0.0000	2.0307
Total	5.7000e-004	0.0129	0.0174	2.0000e-005		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004	0.0000	2.0144	2.0144	6.5000e-004	0.0000	2.0307

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.0000e-005	1.3600e-003	3.3000e-004	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.1296	0.1296	2.0000e-005	0.0000	0.1302
Worker	0.0000	0.0000	0.0000	0.0000	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	3.0000e-005	1.3600e-003	3.3000e-004	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.1296	0.1296	2.0000e-005	0.0000	0.1302

3.9 Building Construction 5 - 2021**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	0.0142	0.1311	0.1181	2.1000e-004		6.3600e-003	6.3600e-003		5.9200e-003	5.9200e-003	0.0000	17.7852	17.7852	5.3300e-003	0.0000	17.9185
Total	0.0142	0.1311	0.1181	2.1000e-004		6.3600e-003	6.3600e-003		5.9200e-003	5.9200e-003	0.0000	17.7852	17.7852	5.3300e-003	0.0000	17.9185

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	1.6000e-004	6.9300e-003	1.7100e-003	1.0000e-005	2.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.6625	0.6625	1.1000e-004	0.0000	0.6654
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	1.6000e-004	6.9300e-003	1.7100e-003	1.0000e-005	2.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.6625	0.6625	1.1000e-004	0.0000	0.6654

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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					
Off-Road	5.5900e-003	0.1085	0.1371	2.1000e-004		8.7000e-004	8.7000e-004		8.7000e-004	8.7000e-004	0.0000	17.7851	17.7851	5.3300e-003	0.0000	17.9185
Total	5.5900e-003	0.1085	0.1371	2.1000e-004		8.7000e-004	8.7000e-004		8.7000e-004	8.7000e-004	0.0000	17.7851	17.7851	5.3300e-003	0.0000	17.9185

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	1.6000e-004	6.9300e-003	1.7100e-003	1.0000e-005	2.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.6625	0.6625	1.1000e-004	0.0000	0.6654
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	1.6000e-004	6.9300e-003	1.7100e-003	1.0000e-005	2.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.6625	0.6625	1.1000e-004	0.0000	0.6654

3.10 Paving 1 - 2021**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	3.1400e-003	0.0323	0.0366	6.0000e-005		1.6900e-003	1.6900e-003		1.5600e-003	1.5600e-003	0.0000	5.0059	5.0059	1.6200e-003	0.0000	5.0464
Paving	3.7700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	6.9100e-003	0.0323	0.0366	6.0000e-005		1.6900e-003	1.6900e-003		1.5600e-003	1.5600e-003	0.0000	5.0059	5.0059	1.6200e-003	0.0000	5.0464

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	1.0000e-005	6.0000e-004	1.5000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0576	0.0576	1.0000e-005	0.0000	0.0579
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	1.0000e-005	6.0000e-004	1.5000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0576	0.0576	1.0000e-005	0.0000	0.0579

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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.4000e-003	0.0282	0.0432	6.0000e-005		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004	0.0000	5.0059	5.0059	1.6200e-003	0.0000	5.0463
Paving	3.7700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	5.1700e-003	0.0282	0.0432	6.0000e-005		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004	0.0000	5.0059	5.0059	1.6200e-003	0.0000	5.0463

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	1.0000e-005	6.0000e-004	1.5000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0576	0.0576	1.0000e-005	0.0000	0.0579
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	1.0000e-005	6.0000e-004	1.5000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0576	0.0576	1.0000e-005	0.0000	0.0579

3.11 Paving 2 - 2021**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	6.2800e-003	0.0646	0.0733	1.1000e-004		3.3900e-003	3.3900e-003		3.1200e-003	3.1200e-003	0.0000	10.0117	10.0117	3.2400e-003	0.0000	10.0927
Paving	3.7700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0101	0.0646	0.0733	1.1000e-004		3.3900e-003	3.3900e-003		3.1200e-003	3.1200e-003	0.0000	10.0117	10.0117	3.2400e-003	0.0000	10.0927

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.0000e-005	1.2100e-003	3.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.1152	0.1152	2.0000e-005	0.0000	0.1157
Worker	0.0000	0.0000	0.0000	0.0000	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	3.0000e-005	1.2100e-003	3.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.1152	0.1152	2.0000e-005	0.0000	0.1157

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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	2.8000e-003	0.0565	0.0865	1.1000e-004		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004	0.0000	10.0117	10.0117	3.2400e-003	0.0000	10.0927
Paving	3.7700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	6.5700e-003	0.0565	0.0865	1.1000e-004		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004	0.0000	10.0117	10.0117	3.2400e-003	0.0000	10.0927

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.0000e-005	1.2100e-003	3.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.1152	0.1152	2.0000e-005	0.0000	0.1157
Worker	0.0000	0.0000	0.0000	0.0000	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	3.0000e-005	1.2100e-003	3.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.1152	0.1152	2.0000e-005	0.0000	0.1157

Energy Calculation Output Files

BVHS - Construction

Hours of Operation for Construction Equipment

Phase 1	Equipment Type	Number of Equipment	Hours/day	Phase Duration	Hours of Equipmment Use	Phase Totals	MTCO2
Demolition							
	Concrete/Industrial Saws	1	8	15	120		
	Excavators	2	8	15	240		
	Rubber Tired Dozers	1	8	15	120		
	Total	4				480	16.47
Site Preparation							
	Rubber Tired Dozers	1	8	10	80		
	Tractors/Loaders/Backhoes	1	8	10	80		
	Total	2				160	5.16
Grading							
	Excavators	2	8	13	208		
	Graders	2	8	13	208		
	Rubber Tired Dozers	1	8	13	104		
	Tractors/Loaders/Backhoes	3	8	13	312		
	Total	8				832	23.86
Building Construction 1							
	Forklifts	3	8	70	1,680		
	Generator Sets	1	8	70	560		
	Tractors/Loaders/Backhoes	3	7	70	1,470		
	Welders	1	8	70	560		
	Total	8				4,270	65.91
Building Construction 2							
	Forklifts	3	8	5	120		
	Paving Equipment	1	8	5	40		
		0	0	0	0		
		0	0	0	0		
	Total	4				160	1.90
Building Construction 3							
	Forklifts	2	8	22	352		
		0	0	0	0		
		0	0	0	0		
		0	0	0	0		
	Total	2				352	2.95
Building Construction 4							
	Forklifts	2	8	15	240		
		0	0	0	0		
		0	0	0	0		
		0	0	0	0		
	Total	2				240	2.01
Building Construction 5							
	Aerial Lifts	1	7	23	161		
	Cranes	1	8	23	184		
	Excavators	1	8	23	184		
	Forklifts	2	7	23	322		
	Welders	1	8	23	184		
	Total	6				1,035	17.79
Paving 1							
	Pavers	1	8	10	80		
	Rollers	1	8	10	80		
	Tractors/Loaders/Backhoes	1	8	10	80		
	Total	3				240	5.01
Paving 2							
	Pavers	1	8	20	160		
	Rollers	1	8	20	160		
	Tractors/Loaders/Backhoes	1	8	20	160		
	Total	3				480	10.01
					Total	8,249	

Construction Equipment Diesel Demand

Phase	Pieces of Equipment	Equipment CO2 (MT)	Kg/CO2/Gallon	Gallons
Demolition	4	16.47	10.21	1,613.12
Site Preparation	2	5.16	10.21	505.29
Grading	8	23.86	10.21	2,336.89
Building Construction 1	8	65.91	10.21	6,455.76
Building Construction 2	4	1.90	10.21	186.27
Building Construction 3	2	2.95	10.21	289.36
Building Construction 4	2	0.86	10.21	84.51
Building Construction 5	6	17.79	10.21	1,741.93
Paving 1	3	5.01	10.21	490.29
Paving 2	3	10.01	10.21	980.58
		Total		14,684.00

Construction Worker Gasoline Demand

Phase	Trips	Vehicle CO2 (MT)	Kg/CO2/Gallon	Gallons
Demolition	225	0.79	8.78	89.83
Site Preparation	180	0.63	8.78	71.86
Grading	195	0.68	8.78	77.85
Building Construction 1	1,400	4.91	8.78	558.91
Building Construction 2	50	0.18	8.78	19.94
Building Construction 3	220	0.77	8.78	87.77
Building Construction 4	150	0.53	8.78	59.84
Building Construction 5	460	1.61	8.78	183.51
Paving 1	150	0.53	8.78	59.84
Paving 2	300	1.05	8.78	119.68
		Total		1,329.02

Construction Vendor Truck Diesel Demand

Phase	Trips	Vehicle		Gallons	
		CO2 (MT)	Kg/CO2/Gallon		
Demolition		0	0.00	10.21	0.00
Site Preparation		0	0.00	10.21	0.00
Grading		0	0.00	10.21	0.00
Building Construction 1		280	3.67	10.21	359.16
Building Construction 2		15	0.20	10.21	19.21
Building Construction 3		66	1.73	10.21	169.31
Building Construction 4		45	0.59	10.21	57.61
Building Construction 5		230	3.01	10.21	294.48
Paving 1		20	0.26	10.21	25.65
Paving 2		40	0.52	10.21	51.31
Total					976.73

Construction Haul Truck Diesel Demand

Phase	Trips	Vehicle			
		CO2 (MT)	Kg/CO2/Gallon	Gallons	
Demolition		3	0.11	10.21	11.19
Site Preparation		0	0.00	10.21	0.00
Grading		6	0.23	10.21	22.38
Building Construction 1		0	0.00	10.21	0.00
Building Construction 2		0	0.00	10.21	0.00
Building Construction 3		0	0.00	10.21	0.00
Building Construction 4		0	0.00	10.21	0.00
Building Construction 5		0	0.00	10.21	0.00
Paving 1		0	0.00	10.21	0.00
Paving 2		0	0.00	10.21	0.00
Total					33.57

Total Diesel	15,694.29
Total Gasoline	1,329.02
	17,023.31

California's Consumption of Petroleum Over Construction Period

78,600,000 gallons per day
14,305,200,000.00 Total over Construction Duration
0.00012% Percent Construction Over Construction

Start	End	
4/19/2021	5/7/2021	18
5/10/2021	5/21/2021	11
5/24/2021	6/9/2021	16
6/10/2021	9/10/2021	92
9/11/2021	10/1/2021	20
10/4/2021	10/29/2021	25
Total		182 days

BVHS - Construction Energy Use

Phase 1

Equipment	CO2 MT/yr			
	Hauling	Vendor	Worker	
Demolition	16.47	0.11	0.00	0.79
Site Preparation	5.16	0.00	0.00	0.63
Grading	23.86	0.23	0.00	0.68
Building Construction 1	65.91	0.00	3.67	4.91
Building Construction 2	1.90	0.00	0.20	0.18
Building Construction 3	2.95	0.00	1.73	0.77
Building Construction 4	0.86	0.00	0.59	0.53
Building Construction 5	17.79	0.00	3.01	1.61
Paving 1	5.01	0.00	0.26	0.53
Paving 2	10.01	0.00	0.52	1.05

Diesel kg CO2/Gallons	Gasoline kg CO2/Gallons	Constructon Equipment Gallons	Woker Vehicle Gallons	Vendor Vehicle Gallons	Haul Vehicle Gallons
10.21	8.78	1,613.12	89.83	0.00	11.19
10.21	8.78	505.29	71.86	0.00	0.00
10.21	8.78	2,336.89	77.85	0.00	22.38
10.21	8.78	6,455.76	558.91	359.16	0.00
10.21	8.78	186.27	19.94	19.21	0.00
10.21	8.78	289.36	87.77	169.31	0.00
10.21	8.78	84.51	59.84	57.61	0.00
10.21	8.78	1,741.93	183.51	294.48	0.00
10.21	8.78	490.29	59.84	25.65	0.00
10.21	8.78	980.58	119.68	51.31	0.00

Total 14,684.00 1,329.02 976.73 33.57

California's Consumption of Petroleum Over Construction Period

14,305,200,000.00 0.000119%

Total	17,023.31
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