

APPENDIX A

Air Quality and Greenhouse Gas Calculations

Haynes Generation Station Intake Channel Project - Los Angeles-South Coast County, Winter

Haynes Generation Station Intake Channel Project
Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	80.00	1000sqft	1.84	80,000.00	0
Other Non-Asphalt Surfaces	335.00	1000sqft	7.69	335,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	9			Operational Year	2031
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MW hr)	1227.89	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Operational year 2031

Land Use - CalEEMod defaults

Construction Phase - Construction phasing information was provided by LADWP.

Off-road Equipment - Dewatering activities equipment use information was provided by LADWP.

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Trips and VMT - Worker trip, vendor and haul truck trip data was provided by the LADWP.

Grading - Import and export information was provided by LADWP

Vehicle Emission Factors - CalEEMod defaults.

Vehicle Emission Factors - CalEEMod defaults.

Vehicle Emission Factors - CalEEMod defaults.

Construction Off-road Equipment Mitigation - Watering twice daily and limiting vehicle speed to 15mph were assumed in compliance with SCAQMD Rule 403

Fleet Mix - CalEEMod defaults.

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Parking	24900	4800
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	44.00
tblConstructionPhase	NumDays	20.00	261.00
tblConstructionPhase	NumDays	20.00	88.00
tblConstructionPhase	NumDays	20.00	522.00
tblConstructionPhase	NumDays	10.00	22.00
tblConstructionPhase	NumDays	10.00	64.00
tblGrading	MaterialExported	0.00	11,440.00
tblGrading	MaterialExported	0.00	40,300.00
tblGrading	MaterialImported	0.00	79,960.00
tblGrading	MaterialImported	0.00	302,900.00
tblOffRoadEquipment	HorsePower	84.00	167.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	4.00
tblOffRoadEquipment	PhaseName		Phase 1 - Site Preparation
tblOffRoadEquipment	PhaseName		Phase 2 - Site Preparation
tblOffRoadEquipment	PhaseName		Phase 1 - Dewatering Activites
tblOffRoadEquipment	PhaseName		Phase 2 - Dewatering Activities
tblOffRoadEquipment	PhaseName		Phase 1 - Site Preparation
tblOffRoadEquipment	PhaseName		Phase 2 - Site Preparation
tblOffRoadEquipment	PhaseName		Phase 1 - Dewatering Activites
tblOffRoadEquipment	PhaseName		Phase 2 - Dewatering Activities
tblOffRoadEquipment	PhaseName		Phase 1 - Grading
tblOffRoadEquipment	PhaseName		Phase 3 - Grading
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00

tblOffRoadEquipment	UsageHours	8.00	0.00
tblTripsAndVMT	HaulingTripNumber	11,425.00	11,390.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	WorkerTripNumber	13.00	60.00
tblTripsAndVMT	WorkerTripNumber	13.00	60.00
tblTripsAndVMT	WorkerTripNumber	20.00	60.00
tblTripsAndVMT	WorkerTripNumber	23.00	120.00
tblTripsAndVMT	WorkerTripNumber	25.00	120.00
tblTripsAndVMT	WorkerTripNumber	38.00	120.00

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	2.1845	19.8467	21.7666	0.0425	6.7312	0.9715	7.7027	3.4992	0.8939	4.3930	0.0000	4,089.5734	4,089.5734	0.8151	0.0000	4,099.6264
2022	3.5949	43.1528	25.4069	0.0811	14.1393	1.5051	15.6444	7.0949	1.3859	8.4807	0.0000	8,272.1699	8,272.1699	1.5457	0.0000	8,310.8130
2023	3.0509	34.5502	23.9285	0.0793	20.3542	1.2162	21.5704	8.6203	1.1194	9.7397	0.0000	8,095.6488	8,095.6488	1.5240	0.0000	8,133.7479
2030	5.2602	36.4639	40.5624	0.1608	32.1575	0.8176	32.9751	15.1381	0.8160	15.9542	0.0000	16,138.1826	16,138.1826	0.8569	0.0000	16,159.6047
2031	5.2327	36.3336	40.4341	0.1604	29.1272	0.8168	29.9439	14.3943	0.8153	15.2096	0.0000	16,103.0215	16,103.0215	0.8538	0.0000	16,124.3676

2032	5.2069	36.1900	40.3050	0.1600	30.6856	0.8160	31.5015	14.7768	0.8145	15.5913	0.0000	16,067.2130	16,067.2130	0.8509	0.0000	16,088.4853
Maximum	5.2602	43.1528	40.5624	0.1608	32.1575	1.5051	32.9751	15.1381	1.3859	15.9542	0.0000	16,138.1826	16,138.1826	1.5457	0.0000	16,159.6047

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	2.1845	19.8467	21.7666	0.0425	3.0577	0.9715	4.0292	1.4799	0.8939	2.3738	0.0000	4,089.5734	4,089.5734	0.8151	0.0000	4,099.6264
2022	3.5949	43.1528	25.4069	0.0811	6.4448	1.5051	7.9498	3.0178	1.3859	4.4037	0.0000	8,272.1699	8,272.1699	1.5457	0.0000	8,310.8130
2023	3.0509	34.5502	23.9285	0.0793	12.6596	1.2162	13.8758	4.5433	1.1194	5.6627	0.0000	8,095.6488	8,095.6488	1.5240	0.0000	8,133.7478
2030	5.2602	36.4639	40.5624	0.1608	16.7714	0.8176	17.5890	6.9844	0.8160	7.8005	0.0000	16,138.1826	16,138.1826	0.8569	0.0000	16,159.6047
2031	5.2327	36.3336	40.4341	0.1604	13.7410	0.8168	14.5578	6.2406	0.8153	7.0559	0.0000	16,103.0215	16,103.0215	0.8538	0.0000	16,124.3676
2032	5.2069	36.1900	40.3050	0.1600	15.2994	0.8160	16.1154	6.6231	0.8145	7.4376	0.0000	16,067.2130	16,067.2130	0.8509	0.0000	16,088.4853
Maximum	5.2602	43.1528	40.5624	0.1608	16.7714	1.5051	17.5890	6.9844	1.3859	7.8005	0.0000	16,138.1826	16,138.1826	1.5457	0.0000	16,159.6047

	ROG	NOx	CO	SO2	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	48.97	0.00	46.81	54.52	0.00	49.93	0.00	0.00	0.00	0.00	0.00	0.00

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	lb/day										lb/day					
Area	0.1570	3.8000e-004	0.0422	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0908	0.0908	2.3000e-004		0.0967
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	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	0.1570	3.8000e-004	0.0422	0.0000	0.0000	1.5000e-004	1.5000e-004	0.0000	1.5000e-004	1.5000e-004		0.0908	0.0908	2.3000e-004	0.0000	0.0967

Mitigated Operational

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Area	0.1570	3.8000e-004	0.0422	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0908	0.0908	2.3000e-004		0.0967
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	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	0.1570	3.8000e-004	0.0422	0.0000	0.0000	1.5000e-004	1.5000e-004	0.0000	1.5000e-004	1.5000e-004		0.0908	0.0908	2.3000e-004	0.0000	0.0967

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Phase 1 - Site Preparation	Site Preparation	11/1/2021	11/30/2021	5	22	
2	Phase 1 - Dewatering Activites	Grading	12/1/2021	1/31/2022	5	44	

3	Phase 1 - Grading	Grading	2/1/2022	1/31/2023	5	261
4	Phase 2 - Site Preparation	Site Preparation	1/1/2030	3/29/2030	5	64
5	Phase 2 - Dewatering Activities	Grading	4/1/2030	7/31/2030	5	88
6	Phase 3 - Grading	Grading	8/1/2030	7/30/2032	5	522

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 9.53

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
Phase 1 - Site Preparation	Excavators	2	8.00	158	0.38
Phase 1 - Site Preparation	Graders	0	0.00	187	0.41
Phase 1 - Site Preparation	Rubber Tired Dozers	1	8.00	247	0.40
Phase 1 - Site Preparation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Phase 1 - Dewatering Activites	Excavators	1	8.00	158	0.38
Phase 1 - Dewatering Activites	Generator Sets	1	8.00	167	0.74
Phase 1 - Dewatering Activites	Graders	0	0.00	187	0.41
Phase 1 - Dewatering Activites	Pumps	2	8.00	84	0.74
Phase 1 - Dewatering Activites	Rubber Tired Dozers	0	0.00	247	0.40
Phase 1 - Dewatering Activites	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Phase 1 - Grading	Excavators	1	8.00	158	0.38
Phase 1 - Grading	Graders	1	8.00	187	0.41
Phase 1 - Grading	Rollers	2	8.00	80	0.38
Phase 1 - Grading	Rubber Tired Dozers	2	8.00	247	0.40
Phase 1 - Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Phase 2 - Site Preparation	Excavators	3	8.00	158	0.38
Phase 2 - Site Preparation	Graders	0	0.00	187	0.41
Phase 2 - Site Preparation	Rubber Tired Dozers	2	8.00	247	0.40

Phase 2 - Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Phase 2 - Dewatering Activities	Excavators	2	8.00	158	0.38
Phase 2 - Dewatering Activities	Generator Sets	2	8.00	84	0.74
Phase 2 - Dewatering Activities	Graders	0	0.00	187	0.41
Phase 2 - Dewatering Activities	Pumps	4	8.00	84	0.74
Phase 2 - Dewatering Activities	Rubber Tired Dozers	0	0.00	247	0.40
Phase 2 - Dewatering Activities	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Phase 3 - Grading	Excavators	1	8.00	158	0.38
Phase 3 - Grading	Graders	2	8.00	187	0.41
Phase 3 - Grading	Rollers	4	8.00	80	0.38
Phase 3 - Grading	Rubber Tired Dozers	4	8.00	247	0.40
Phase 3 - Grading	Tractors/Loaders/Backhoes	4	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Phase 1 - Site Preparation	5	60.00	6.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase 1 - Dewatering Activities	5	60.00	6.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase 1 - Grading	8	60.00	6.00	11,390.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase 2 - Site Preparation	9	120.00	6.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase 2 - Dewatering Activities	10	120.00	6.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Phase 3 - Grading	15	120.00	6.00	42,900.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Phase 1 - 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	1.8793	19.0697	15.1019	0.0251		0.9649	0.9649		0.8877	0.8877		2,429.5363	2,429.5363	0.7858		2,449.1803
Total	1.8793	19.0697	15.1019	0.0251	6.0221	0.9649	6.9870	3.3102	0.8877	4.1979		2,429.5363	2,429.5363	0.7858		2,449.1803

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	0.0192	0.5813	0.1685	1.5000e-003	0.0384	1.2300e-003	0.0396	0.0111	1.1800e-003	0.0122		160.4073	160.4073	0.0104		160.6662
Worker	0.2861	0.1957	2.2095	6.4600e-003	0.6707	5.4200e-003	0.6761	0.1779	4.9900e-003	0.1829		643.3507	643.3507	0.0189		643.8239
Total	0.3052	0.7770	2.3780	7.9600e-003	0.7091	6.6500e-003	0.7157	0.1889	6.1700e-003	0.1951		803.7580	803.7580	0.0293		804.4901

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					2.3486	0.0000	2.3486	1.2910	0.0000	1.2910			0.0000			0.0000
Off-Road	1.8793	19.0697	15.1019	0.0251		0.9649	0.9649		0.8877	0.8877	0.0000	2,429.5363	2,429.5363	0.7858		2,449.1803
Total	1.8793	19.0697	15.1019	0.0251	2.3486	0.9649	3.3135	1.2910	0.8877	2.1787	0.0000	2,429.5363	2,429.5363	0.7858		2,449.1803

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	0.0192	0.5813	0.1685	1.5000e-003	0.0384	1.2300e-003	0.0396	0.0111	1.1800e-003	0.0122		160.4073	160.4073	0.0104		160.6662
Worker	0.2861	0.1957	2.2095	6.4600e-003	0.6707	5.4200e-003	0.6761	0.1779	4.9900e-003	0.1829		643.3507	643.3507	0.0189		643.8239
Total	0.3052	0.7770	2.3780	7.9600e-003	0.7091	6.6500e-003	0.7157	0.1889	6.1700e-003	0.1951		803.7580	803.7580	0.0293		804.4901

3.3 Phase 1 - Dewatering Activites - 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	1.7069	14.9766	19.3886	0.0345		0.7698	0.7698		0.7525	0.7525		3,285.8154	3,285.8154	0.3728		3,295.1362
Total	1.7069	14.9766	19.3886	0.0345	0.0000	0.7698	0.7698	0.0000	0.7525	0.7525		3,285.8154	3,285.8154	0.3728		3,295.1362

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	0.0192	0.5813	0.1685	1.5000e-003	0.0384	1.2300e-003	0.0396	0.0111	1.1800e-003	0.0122		160.4073	160.4073	0.0104		160.6662
Worker	0.2861	0.1957	2.2095	6.4600e-003	0.6707	5.4200e-003	0.6761	0.1779	4.9900e-003	0.1829		643.3507	643.3507	0.0189		643.8239
Total	0.3052	0.7770	2.3780	7.9600e-003	0.7091	6.6500e-003	0.7157	0.1889	6.1700e-003	0.1951		803.7580	803.7580	0.0293		804.4901

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	1.7069	14.9766	19.3886	0.0345		0.7698	0.7698		0.7525	0.7525	0.0000	3,285.8154	3,285.8154	0.3728		3,295.1362
Total	1.7069	14.9766	19.3886	0.0345	0.0000	0.7698	0.7698	0.0000	0.7525	0.7525	0.0000	3,285.8154	3,285.8154	0.3728		3,295.1362

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
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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	0.0000
Vendor	0.0192	0.5813	0.1685	1.5000e-003	0.0384	1.2300e-003	0.0396	0.0111	1.1800e-003	0.0122	160.4073	160.4073	0.0104		160.6662
Worker	0.2861	0.1957	2.2095	6.4600e-003	0.6707	5.4200e-003	0.6761	0.1779	4.9900e-003	0.1829	643.3507	643.3507	0.0189		643.8239
Total	0.3052	0.7770	2.3780	7.9600e-003	0.7091	6.6500e-003	0.7157	0.1889	6.1700e-003	0.1951	803.7580	803.7580	0.0293		804.4901

3.3 Phase 1 - Dewatering Activites - 2022

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	1.5636	13.3789	19.3342	0.0345		0.6639	0.6639		0.6499	0.6499		3,285.9754	3,285.9754	0.3663		3,295.1334
Total	1.5636	13.3789	19.3342	0.0345	0.0000	0.6639	0.6639	0.0000	0.6499	0.6499		3,285.9754	3,285.9754	0.3663		3,295.1334

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	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	0.0180	0.5525	0.1595	1.4900e-003	0.0384	1.0800e-003	0.0395	0.0111	1.0300e-003	0.0121		158.9822	158.9822	9.9900e-003		159.2320
Worker	0.2687	0.1767	2.0351	6.2300e-003	0.6707	5.2500e-003	0.6759	0.1779	4.8400e-003	0.1827		620.7417	620.7417	0.0171		621.1690

Total	0.2867	0.7292	2.1945	7.7200e-003	0.7091	6.3300e-003	0.7154	0.1889	5.8700e-003	0.1948		779.7238	779.7238	0.0271		780.4009
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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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	1.5636	13.3789	19.3342	0.0345		0.6639	0.6639		0.6499	0.6499	0.0000	3,285.9754	3,285.9754	0.3663		3,295.1334
Total	1.5636	13.3789	19.3342	0.0345	0.0000	0.6639	0.6639	0.0000	0.6499	0.6499	0.0000	3,285.9754	3,285.9754	0.3663		3,295.1334

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	0.0180	0.5525	0.1595	1.4900e-003	0.0384	1.0800e-003	0.0395	0.0111	1.0300e-003	0.0121		158.9822	158.9822	9.9900e-003		159.2320
Worker	0.2687	0.1767	2.0351	6.2300e-003	0.6707	5.2500e-003	0.6759	0.1779	4.8400e-003	0.1827		620.7417	620.7417	0.0171		621.1690
Total	0.2867	0.7292	2.1945	7.7200e-003	0.7091	6.3300e-003	0.7154	0.1889	5.8700e-003	0.1948		779.7238	779.7238	0.0271		780.4009

3.4 Phase 1 - Grading - 2022

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					12.6140	0.0000	12.6140	6.6837	0.0000	6.6837			0.0000			0.0000
Off-Road	2.9536	31.4249	20.3375	0.0403		1.4670	1.4670		1.3497	1.3497		3,906.0505	3,906.0505	1.2633		3,937.6329
Total	2.9536	31.4249	20.3375	0.0403	12.6140	1.4670	14.0811	6.6837	1.3497	8.0334		3,906.0505	3,906.0505	1.2633		3,937.6329

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	0.3546	10.9987	2.8749	0.0330	0.8162	0.0317	0.8479	0.2222	0.0303	0.2526		3,586.3956	3,586.3956	0.2553		3,592.7792
Vendor	0.0180	0.5525	0.1595	1.4900e-003	0.0384	1.0800e-003	0.0395	0.0111	1.0300e-003	0.0121		158.9822	158.9822	9.9900e-003		159.2320
Worker	0.2687	0.1767	2.0351	6.2300e-003	0.6707	5.2500e-003	0.6759	0.1779	4.8400e-003	0.1827		620.7417	620.7417	0.0171		621.1690
Total	0.6413	11.7279	5.0694	0.0407	1.5253	0.0380	1.5633	0.4111	0.0362	0.4473		4,366.1195	4,366.1195	0.2824		4,373.1802

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					4.9195	0.0000	4.9195	2.6067	0.0000	2.6067			0.0000			0.0000
Off-Road	2.9536	31.4249	20.3375	0.0403		1.4670	1.4670		1.3497	1.3497	0.0000	3,906.0505	3,906.0505	1.2633		3,937.6329
Total	2.9536	31.4249	20.3375	0.0403	4.9195	1.4670	6.3865	2.6067	1.3497	3.9563	0.0000	3,906.0505	3,906.0505	1.2633		3,937.6329

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	0.3546	10.9987	2.8749	0.0330	0.8162	0.0317	0.8479	0.2222	0.0303	0.2526		3,586.3956	3,586.3956	0.2553		3,592.7792
Vendor	0.0180	0.5525	0.1595	1.4900e-003	0.0384	1.0800e-003	0.0395	0.0111	1.0300e-003	0.0121		158.9822	158.9822	9.9900e-003		159.2320
Worker	0.2687	0.1767	2.0351	6.2300e-003	0.6707	5.2500e-003	0.6759	0.1779	4.8400e-003	0.1827		620.7417	620.7417	0.0171		621.1690
Total	0.6413	11.7279	5.0694	0.0407	1.5253	0.0380	1.5633	0.4111	0.0362	0.4473		4,366.1195	4,366.1195	0.2824		4,373.1802

3.4 Phase 1 - Grading - 2023

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					12.6140	0.0000	12.6140	6.6837	0.0000	6.6837			0.0000			0.0000
Off-Road	2.5516	26.7475	19.3302	0.0403		1.1972	1.1972		1.1014	1.1014		3,906.3305	3,906.3305	1.2634		3,937.9152
Total	2.5516	26.7475	19.3302	0.0403	12.6140	1.1972	13.8112	6.6837	1.1014	7.7851		3,906.3305	3,906.3305	1.2634		3,937.9152

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	0.2328	7.2244	2.5860	0.0316	7.0311	0.0134	7.0445	1.7477	0.0128	1.7605		3,437.2411	3,437.2411	0.2364			3,443.1509
Vendor	0.0134	0.4184	0.1417	1.4400e-003	0.0384	5.1000e-004	0.0389	0.0111	4.9000e-004	0.0116		154.0448	154.0448	8.8000e-003			154.2647
Worker	0.2532	0.1598	1.8706	6.0000e-003	0.6707	5.1000e-003	0.6758	0.1779	4.7000e-003	0.1826		598.0323	598.0323	0.0154			598.4171
Total	0.4993	7.8026	4.5983	0.0390	7.7402	0.0190	7.7592	1.9366	0.0180	1.9546		4,189.3182	4,189.3182	0.2606			4,195.8327

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					4.9195	0.0000	4.9195	2.6067	0.0000	2.6067			0.0000				0.0000
Off-Road	2.5516	26.7475	19.3302	0.0403		1.1972	1.1972		1.1014	1.1014	0.0000	3,906.3305	3,906.3305	1.2634			3,937.9152
Total	2.5516	26.7475	19.3302	0.0403	4.9195	1.1972	6.1167	2.6067	1.1014	3.7081	0.0000	3,906.3305	3,906.3305	1.2634			3,937.9152

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
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Category	lb/day										lb/day				
Hauling	0.2328	7.2244	2.5860	0.0316	7.0311	0.0134	7.0445	1.7477	0.0128	1.7605	3,437.2411	3,437.2411	0.2364		3,443.1509
Vendor	0.0134	0.4184	0.1417	1.4400e-003	0.0384	5.1000e-004	0.0389	0.0111	4.9000e-004	0.0116	154.0448	154.0448	8.8000e-003		154.2647
Worker	0.2532	0.1598	1.8706	6.0000e-003	0.6707	5.1000e-003	0.6758	0.1779	4.7000e-003	0.1826	598.0323	598.0323	0.0154		598.4171
Total	0.4993	7.8026	4.5983	0.0390	7.7402	0.0190	7.7592	1.9366	0.0180	1.9546	4,189.3182	4,189.3182	0.2606		4,195.8327

3.5 Phase 2 - Site Preparation - 2030

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Fugitive Dust					12.0442	0.0000	12.0442	6.6205	0.0000	6.6205			0.0000			0.0000
Off-Road	2.5328	12.1504	24.6685	0.0552		0.3895	0.3895		0.3895	0.3895		5,224.8304	5,224.8304	0.2257		5,230.4724
Total	2.5328	12.1504	24.6685	0.0552	12.0442	0.3895	12.4337	6.6205	0.3895	7.0099		5,224.8304	5,224.8304	0.2257		5,230.4724

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	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	0.0116	0.3966	0.1244	1.3900e-003	0.0384	4.4000e-004	0.0389	0.0111	4.2000e-004	0.0115		149.4882	149.4882	7.9500e-003		149.6871
Worker	0.3512	0.1762	2.3391	9.6100e-003	1.3413	7.2400e-003	1.3486	0.3557	6.6600e-003	0.3624		959.3591	959.3591	0.0167		959.7775

Total	0.3627	0.5728	2.4635	0.0110	1.3797	7.6800e-003	1.3874	0.3668	7.0800e-003	0.3739		1,108.8473	1,108.8473	0.0247		1,109.4645
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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					4.6972	0.0000	4.6972	2.5820	0.0000	2.5820			0.0000			0.0000
Off-Road	2.5328	12.1504	24.6685	0.0552		0.3895	0.3895		0.3895	0.3895	0.0000	5,224.8304	5,224.8304	0.2257		5,230.4724
Total	2.5328	12.1504	24.6685	0.0552	4.6972	0.3895	5.0867	2.5820	0.3895	2.9715	0.0000	5,224.8304	5,224.8304	0.2257		5,230.4724

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	0.0116	0.3966	0.1244	1.3900e-003	0.0384	4.4000e-004	0.0389	0.0111	4.2000e-004	0.0115		149.4882	149.4882	7.9500e-003		149.6871
Worker	0.3512	0.1762	2.3391	9.6100e-003	1.3413	7.2400e-003	1.3486	0.3557	6.6600e-003	0.3624		959.3591	959.3591	0.0167		959.7775
Total	0.3627	0.5728	2.4635	0.0110	1.3797	7.6800e-003	1.3874	0.3668	7.0800e-003	0.3739		1,108.8473	1,108.8473	0.0247		1,109.4645

3.6 Phase 2 - Dewatering Activities - 2030

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	2.0321	14.0630	33.8466	0.0598		0.3191	0.3191		0.3191	0.3191		5,661.2353	5,661.2353	0.1803		5,665.7416
Total	2.0321	14.0630	33.8466	0.0598	0.0000	0.3191	0.3191	0.0000	0.3191	0.3191		5,661.2353	5,661.2353	0.1803		5,665.7416

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	0.0116	0.3966	0.1244	1.3900e-003	0.0384	4.4000e-004	0.0389	0.0111	4.2000e-004	0.0115		149.4882	149.4882	7.9500e-003		149.6871
Worker	0.3512	0.1762	2.3391	9.6100e-003	1.3413	7.2400e-003	1.3486	0.3557	6.6600e-003	0.3624		959.3591	959.3591	0.0167		959.7775
Total	0.3627	0.5728	2.4635	0.0110	1.3797	7.6800e-003	1.3874	0.3668	7.0800e-003	0.3739		1,108.8473	1,108.8473	0.0247		1,109.4645

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000			0.0000
Off-Road	2.0321	14.0630	33.8466	0.0598		0.3191	0.3191		0.3191	0.3191	0.0000	5,661.2353	5,661.2353	0.1803	5,665.7416
Total	2.0321	14.0630	33.8466	0.0598	0.0000	0.3191	0.3191	0.0000	0.3191	0.3191	0.0000	5,661.2353	5,661.2353	0.1803	5,665.7416

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	0.0116	0.3966	0.1244	1.3900e-003	0.0384	4.4000e-004	0.0389	0.0111	4.2000e-004	0.0115		149.4882	149.4882	7.9500e-003		149.6871
Worker	0.3512	0.1762	2.3391	9.6100e-003	1.3413	7.2400e-003	1.3486	0.3557	6.6600e-003	0.3624		959.3591	959.3591	0.0167		959.7775
Total	0.3627	0.5728	2.4635	0.0110	1.3797	7.6800e-003	1.3874	0.3668	7.0800e-003	0.3739		1,108.8473	1,108.8473	0.0247		1,109.4645

3.7 Phase 3 - Grading - 2030

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					25.2232	0.0000	25.2232	13.3667	0.0000	13.3667			0.0000			0.0000
Off-Road	4.4747	23.4412	33.0647	0.0925		0.7877	0.7877		0.7877	0.7877		8,757.5647	8,757.5647	0.3993		8,767.5468
Total	4.4747	23.4412	33.0647	0.0925	25.2232	0.7877	26.0109	13.3667	0.7877	14.1544		8,757.5647	8,757.5647	0.3993		8,767.5468

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	0.4228	12.4499	5.0342	0.0573	5.5546	0.0222	5.5768	1.4047	0.0213	1.4259		6,271.7705	6,271.7705	0.4329		6,282.5934
Vendor	0.0116	0.3966	0.1244	1.3900e-003	0.0384	4.4000e-004	0.0389	0.0111	4.2000e-004	0.0115		149.4882	149.4882	7.9500e-003		149.6871
Worker	0.3512	0.1762	2.3391	9.6100e-003	1.3413	7.2400e-003	1.3486	0.3557	6.6600e-003	0.3624		959.3591	959.3591	0.0167		959.7775
Total	0.7856	13.0228	7.4977	0.0683	6.9343	0.0299	6.9642	1.7714	0.0283	1.7998		7,380.6178	7,380.6178	0.4576		7,392.0579

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					9.8371	0.0000	9.8371	5.2130	0.0000	5.2130			0.0000			0.0000
Off-Road	4.4747	23.4412	33.0647	0.0925		0.7877	0.7877		0.7877	0.7877	0.0000	8,757.5647	8,757.5647	0.3993		8,767.5468
Total	4.4747	23.4412	33.0647	0.0925	9.8371	0.7877	10.6248	5.2130	0.7877	6.0007	0.0000	8,757.5647	8,757.5647	0.3993		8,767.5468

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
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Category	lb/day										lb/day			
Hauling	0.4228	12.4499	5.0342	0.0573	5.5546	0.0222	5.5768	1.4047	0.0213	1.4259	6,271.7705	6,271.7705	0.4329	6,282.5934
Vendor	0.0116	0.3966	0.1244	1.3900e-003	0.0384	4.4000e-004	0.0389	0.0111	4.2000e-004	0.0115	149.4882	149.4882	7.9500e-003	149.6871
Worker	0.3512	0.1762	2.3391	9.6100e-003	1.3413	7.2400e-003	1.3486	0.3557	6.6600e-003	0.3624	959.3591	959.3591	0.0167	959.7755
Total	0.7856	13.0228	7.4977	0.0683	6.9343	0.0299	6.9642	1.7714	0.0283	1.7998	7,380.6178	7,380.6178	0.4576	7,392.0579

3.7 Phase 3 - Grading - 2031

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Fugitive Dust					25.2232	0.0000	25.2232	13.3667	0.0000	13.3667			0.0000			0.0000
Off-Road	4.4747	23.4412	33.0647	0.0925		0.7877	0.7877		0.7877	0.7877	8,757.5647	8,757.5647	8,757.5647	0.3993		8,767.5468
Total	4.4747	23.4412	33.0647	0.0925	25.2232	0.7877	26.0109	13.3667	0.7877	14.1544	8,757.5647	8,757.5647	8,757.5647	0.3993		8,767.5468

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Hauling	0.4219	12.3380	5.0577	0.0571	2.5242	0.0219	2.5461	0.6608	0.0209	0.6817	6,256.4809	6,256.4809	6,256.4809	0.4314		6,267.2657
Vendor	0.0115	0.3945	0.1238	1.3900e-003	0.0384	4.3000e-004	0.0389	0.0111	4.1000e-004	0.0115	149.2133	149.2133	149.2133	7.8800e-003		149.4103
Worker	0.3247	0.1600	2.1879	9.4100e-003	1.3413	6.7800e-003	1.3481	0.3557	6.2400e-003	0.3620	939.7626	939.7626	939.7626	0.0153		940.1448

Total	0.7581	12.8924	7.3694	0.0679	3.9040	0.0291	3.9330	1.0276	0.0276	1.0552		7,345.4568	7,345.4568	0.4546		7,356.8208
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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					9.8371	0.0000	9.8371	5.2130	0.0000	5.2130			0.0000			0.0000
Off-Road	4.4747	23.4412	33.0647	0.0925		0.7877	0.7877		0.7877	0.7877	0.0000	8,757.5647	8,757.5647	0.3993		8,767.5468
Total	4.4747	23.4412	33.0647	0.0925	9.8371	0.7877	10.6248	5.2130	0.7877	6.0007	0.0000	8,757.5647	8,757.5647	0.3993		8,767.5468

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	0.4219	12.3380	5.0577	0.0571	2.5242	0.0219	2.5461	0.6608	0.0209	0.6817		6,256.4809	6,256.4809	0.4314		6,267.2657
Vendor	0.0115	0.3945	0.1238	1.3900e-003	0.0384	4.3000e-004	0.0389	0.0111	4.1000e-004	0.0115		149.2133	149.2133	7.8800e-003		149.4103
Worker	0.3247	0.1600	2.1879	9.4100e-003	1.3413	6.7800e-003	1.3481	0.3557	6.2400e-003	0.3620		939.7626	939.7626	0.0153		940.1448
Total	0.7581	12.8924	7.3694	0.0679	3.9040	0.0291	3.9330	1.0276	0.0276	1.0552		7,345.4568	7,345.4568	0.4546		7,356.8208

3.7 Phase 3 - Grading - 2032

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					25.2232	0.0000	25.2232	13.3667	0.0000	13.3667			0.0000			0.0000
Off-Road	4.4747	23.4412	33.0647	0.0925		0.7877	0.7877		0.7877	0.7877		8,757.5647	8,757.5647	0.3993		8,767.5468
Total	4.4747	23.4412	33.0647	0.0925	25.2232	0.7877	26.0109	13.3667	0.7877	14.1544		8,757.5647	8,757.5647	0.3993		8,767.5468

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	0.4198	12.2112	5.0661	0.0570	4.0826	0.0215	4.1041	1.0434	0.0206	1.0639		6,240.1725	6,240.1725	0.4298		6,250.9185
Vendor	0.0114	0.3919	0.1232	1.3800e-003	0.0384	4.3000e-004	0.0389	0.0111	4.1000e-004	0.0115		148.9121	148.9121	7.8100e-003		149.1074
Worker	0.3011	0.1458	2.0510	9.2200e-003	1.3413	6.3300e-003	1.3476	0.3557	5.8200e-003	0.3615		920.5638	920.5638	0.0140		920.9127
Total	0.7322	12.7488	7.2403	0.0676	5.4624	0.0283	5.4906	1.4101	0.0268	1.4369		7,309.6483	7,309.6483	0.4516		7,320.9386

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					9.8371	0.0000	9.8371	5.2130	0.0000	5.2130			0.0000			0.0000
Off-Road	4.4747	23.4412	33.0647	0.0925		0.7877	0.7877		0.7877	0.7877	0.0000	8,757.5647	8,757.5647	0.3993		8,767.5468
Total	4.4747	23.4412	33.0647	0.0925	9.8371	0.7877	10.6248	5.2130	0.7877	6.0007	0.0000	8,757.5647	8,757.5647	0.3993		8,767.5468

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	0.4198	12.2112	5.0661	0.0570	4.0826	0.0215	4.1041	1.0434	0.0206	1.0639		6,240.1725	6,240.1725	0.4298		6,250.9185
Vendor	0.0114	0.3919	0.1232	1.3800e-003	0.0384	4.3000e-004	0.0389	0.0111	4.1000e-004	0.0115		148.9121	148.9121	7.8100e-003		149.1074
Worker	0.3011	0.1458	2.0510	9.2200e-003	1.3413	6.3300e-003	1.3476	0.3557	5.8200e-003	0.3615		920.5638	920.5638	0.0140		920.9127
Total	0.7322	12.7488	7.2403	0.0676	5.4624	0.0283	5.4906	1.4101	0.0268	1.4369		7,309.6483	7,309.6483	0.4516		7,320.9386

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Non-Asphalt Surfaces	0.541641	0.043952	0.210875	0.115885	0.013627	0.006386	0.021536	0.034902	0.002649	0.001713	0.005302	0.000722	0.000809

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					

NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.1570	3.8000e-004	0.0422	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0908	0.0908	2.3000e-004		0.0967
Unmitigated	0.1570	3.8000e-004	0.0422	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0908	0.0908	2.3000e-004		0.0967

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	6.1000e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1470					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.8600e-003	3.8000e-004	0.0422	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0908	0.0908	2.3000e-004		0.0967
Total	0.1570	3.8000e-004	0.0422	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0908	0.0908	2.3000e-004		0.0967

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	6.1000e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1470					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.8600e-003	3.8000e-004	0.0422	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0908	0.0908	2.3000e-004		0.0967
Total	0.1570	3.8000e-004	0.0422	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0908	0.0908	2.3000e-004		0.0967

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation
