

APPENDIX D

Air Quality and Greenhouse Gas Modeling

1. Model Description and Methodology
2. Air Quality and Greenhouse Gas Inputs and Emissions
3. CalEEMod data outputs

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The **California Emissions Estimator Model** (CalEEMod) is a statewide land use emissions computer model designed to provide a uniform platform for government agencies, land use planners, and environmental professionals to quantify potential criteria pollutant and greenhouse gas (GHG) emissions associated with both construction and operations from a variety of land use projects. The model quantifies direct emissions from construction and operation activities (including vehicle use), as well as indirect emissions, such as GHG emissions from energy use, solid waste disposal, vegetation planting and/or removal, and water use. Further, the model identifies mitigation measures to reduce criteria pollutant and GHG emissions along with calculating the benefits achieved from measures chosen by the user.

The most recent version of CalEEMod (version 2016.3.2) was used to estimate construction emissions for the project. Project-specific inputs, as shown in Part 1 of this Appendix, include:

1. Construction start date, schedule and duration of phases (Table 1)
2. Construction equipment, number and daily usage data by phase (Table 2)
3. Construction worker trips and on-road truck trips (also shown in Table 1)

CalEEMod defaults were used where project-specific data was not available such as trip lengths for workers and construction trucks. All default and project-specific assumptions are included in the CalEEMod output file included at the end of this appendix.

The project's criteria pollutant and GHG emissions (as estimated by CalEEMod) are summarized in Table 3 (in Part 1 of this Appendix). The table also includes a quantification of indirect GHG emissions associated with pumping and distribution of water used for dust suppression and soil compaction activities. Table 4, (in Part 1 of this Appendix) shows the calculation details of energy use associated with construction activities.

Part 2 of the Appendix includes the CalEEMod data outputs.

TABLE 1 - CONSTRUCTION SCHEDULE

	Construction Phasing	Work Area	Start	End	Working Days	Ave. No. of workers/day	Ave. worker trips/day	No. of truck trips/day	No. of truck trips/phase
PHASE 1									
1.1	Earthwork - Cut (Biosolids Removal)	L16-L19	7/22/2020	12/8/2020	120	20	40	0	0
1.2	Earthwork - Fill	L13-L15	7/22/2020	12/8/2020	120	20	40	0	0
1.3	Hand Removal - Pickleweed	L13-L19	5/6/2020	5/19/2020	12	20	40	0	0
1.4	Aggregate Base	Haul Routes	7/16/2020	7/29/2020	12	20	40	208	1250
1.5	Erosion Control	L13-L15	7/16/2020	7/21/2020	5	20	40	0	0
	TOTAL WORKDAYS IN PHASE 1 ACCOUNTING FOR OVERLAPPING CONSTRUCTION				125				
PHASE 2									
2.1	Earthwork - Cut (Biosolids Removal)	L1-L3, L5-L7	5/1/2021	7/15/2021	65	20	40	0	0
2.2	Earthwork - Cut (Biosolids Removal)	L13-L15	7/16/2021	10/19/2021	82	20	40	0	0
2.3	Earthwork - Cut (Biosolids Removal)	L20-L25	10/20/2021	12/9/2021	44	20	40	0	0
2.4	Earthwork - Fill (Consolidation Pile)	L9-L12	5/1/2021	12/10/2021	192	20	40	0	0
2.5	Earthwork - Grading	L1-L3, L5-L7	7/18/2022	8/21/2022	30	20	40	0	0
2.6	Earthwork - Grading	L13-L15	8/22/2022	9/27/2022	32	20	40	0	0
2.7	Earthwork - Grading	L20-L25	9/28/2022	11/24/2022	50	20	40	0	0
2.8	Earthwork - Fill (Cap Material)	L9-L12	10/2/2021	12/7/2021	57	20	40	166	9444
2.9	Hand Removal - Pickleweed	L1-L3, L5-L7, L13-L15, L20-L25	5/2/2021	5/31/2021	25	20	40	0	0
2.10	Drainage Installation	L1-L3, L5-L7	12/2/2022	12/10/2022	8	20	40	4	32
2.11	Lime Treatment	L1-L3, L5-L7, L9-L12, L13-L15, L20-L26	5/1/2022	7/18/2022	67	20	40	6	402
2.12	Erosion Control	L1-L3, L5-L7, L13-L15, L20-L27	12/11/2022	12/20/2022	8	20	40	0	0
	TOTAL WORKDAYS IN PHASE 2 ACCOUNTING FOR OVERLAPPING CONSTRUCTION				250				

TABLE 2 - CONSTRUCTION EQUIPMENT BY PHASE

Source: Carollo's response to RFI

All equipment that were highlighted in orange were considered as on-road trips

1.1 Earthwork - Cut (Biosolids Removal)				
Project Construction Equipment	Equivalent Equipment in CalEEMod NOTE: Please click on a cell and select equipment from the drop down list	Number of Equipment used	Avg Operation (hrs/day)	Assumed hp in CalEEMod
Bulldozer	Rubber Tired Dozers	5	8	247
Excavator	Excavators	2	8	158
Compactor	Plate Compactors	1	8	8
Front Loader	Tractors/Loaders/Backhoes	1	8	203
Water Truck	Off-Highway Trucks	1	8	402
Sweeper	Sweepers/Scrubbers	1	8	64
Pickup Truck	Off-Highway Trucks	16	8	402
Dump Truck	Off-Highway Trucks	4	8	402
1.2 Earthwork - Fill				
Project Construction Equipment	Equivalent Equipment in CalEEMod NOTE: Please click on a cell and select equipment from the drop down list	Number of Equipment used	Avg Operation (hrs/day)	Assumed hp in CalEEMod
Bulldozer	Rubber Tired Dozers	5	8	247
Excavator	Excavators	1	8	158
Compactor	Plate Compactors	1	8	8
Front Loader	Rubber Tired Loaders	1	8	203
Water Truck	Off-Highway Trucks	1	8	402
Pickup Truck	Off-Highway Trucks	8	8	402
1.3 Hand Removal - Pickleweed				
Project Construction Equipment	Equivalent Equipment in CalEEMod NOTE: Please click on a cell and select equipment from the drop down list	Number of Equipment used	Avg Operation (hrs/day)	Assumed hp in CalEEMod
Pickup Truck	Off-Highway Trucks	20	8	402
1.4 Aggregate Base				
Project Construction Equipment	Equivalent Equipment in CalEEMod NOTE: Please click on a cell and select equipment from the drop down list	Number of Equipment used	Avg Operation (hrs/day)	Assumed hp in CalEEMod
Grader	Graders	1	8	187
CB2.7 Drum Roller	Rollers	2	8	80
Excavator	Excavators	1	8	158
Water Truck	Off-Highway Trucks	1	8	400

Pickup Truck	Off-Highway Trucks	5	8	400
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1.5	Erosion Control			
Project Construction Equipment	NOTE: Please click on a cell and	Equipment	Operation	in
Pickup Truck	Off-Highway Trucks	3	8	402

2.1	Earthwork - Cut (Biosolids Removal)			
Project Construction Equipment	Equivalent Equipment in CalEEMod NOTE: Please click on a cell and select equipment from the drop down list	Number of Equipment used	Avg Operation (hrs/day)	Assumed hp in CalEEMod
Bulldozer	Rubber Tired Dozers	10	8	247
Excavator	Excavators	4	8	158
Compactor	Plate Compactors	2	8	8
Front Loader	Rubber Tired Loaders	2	8	203
Water Truck	Off-Highway Trucks	1	8	402
Sweeper	Sweepers/Scrubbers	1	8	64
Pickup Truck	Off-Highway Trucks	32	8	402
Dump Truck	Off-Highway Trucks	10	8	402

2.2	Earthwork - Cut (Biosolids Removal)			
Project Construction Equipment	Equivalent Equipment in CalEEMod NOTE: Please click on a cell and select equipment from the drop down list	Number of Equipment used	Avg Operation (hrs/day)	Assumed hp in CalEEMod
Bulldozer	Rubber Tired Dozers	10	8	247
Excavator	Excavators	4	8	158
Compactor	Plate Compactors	2	8	8
Front Loader	Rubber Tired Loaders	2	8	203
Water Truck	Off-Highway Trucks	1	8	402
Sweeper	Sweepers/Scrubbers	1	8	64
Pickup Truck	Off-Highway Trucks	32	8	402
Dump Truck	Off-Highway Trucks	10	8	402

2.3	Earthwork - Cut (Biosolids Removal)			
Project Construction Equipment	Equivalent Equipment in CalEEMod NOTE: Please click on a cell and select equipment from the drop down list	Number of Equipment used	Avg Operation (hrs/day)	Assumed hp in CalEEMod
Bulldozer	Rubber Tired Dozers	10	8	247
Excavator	Excavators	4	8	158
Compactor	Plate Compactors	2	8	8
Front Loader	Rubber Tired Loaders	2	8	203
Water Truck	Off-Highway Trucks	1	8	402
Sweeper	Sweepers/Scrubbers	1	8	64
Pickup Truck	Off-Highway Trucks	32	8	402
Dump Truck	Off-Highway Trucks	10	8	402

2.4 Earthwork - Fill (Consolidation Pile)				
Project Construction Equipment	Equivalent Equipment in CalEEMod NOTE: Please click on a cell and select equipment from the drop down list	Number of Equipment used	Avg Operation (hrs/day)	Assumed hp in CalEEMod
Bulldozer	Rubber Tired Dozers	10	8	247
Excavator	Excavators	2	8	158
Compactor	Plate Compactors	2	8	8
Front Loader	Rubber Tired Loaders	1	8	203
Water Truck	Off-Highway Trucks	1	8	402
Pickup Truck	Off-Highway Trucks	16	8	402

2.5 Earthwork - Grading				
Project Construction Equipment	Equivalent Equipment in CalEEMod NOTE: Please click on a cell and select equipment from the drop down list	Number of Equipment used	Avg Operation (hrs/day)	Assumed hp in CalEEMod
Bulldozer	Rubber Tired Dozers	5	8	247
Excavator	Excavators	4	8	158
Compactor	Plate Compactors	2	8	8
Front Loader	Rubber Tired Loaders	2	8	203
Water Truck	Off-Highway Trucks	1	8	402
Scraper	Scrapers	5	8	367
Sweeper	Sweepers/Scrubbers	1	8	64
Pickup Truck	Off-Highway Trucks	32	8	402
Motor Grader	Graders	5	8	187

2.6 Earthwork - Grading				
Project Construction Equipment	Equivalent Equipment in CalEEMod NOTE: Please click on a cell and select equipment from the drop down list	Number of Equipment used	Avg Operation (hrs/day)	Assumed hp in CalEEMod
Bulldozer	Rubber Tired Dozers	5	8	247
Excavator	Excavators	4	8	158
Compactor	Plate Compactors	2	8	8
Front Loader	Rubber Tired Loaders	2	8	203
Water Truck	Off-Highway Trucks	2	8	402
Scraper	Scrapers	5	8	367
Sweeper	Sweepers/Scrubbers	2	8	64
Pickup Truck	Off-Highway Trucks	32	8	402
Motor Grader	Graders	5	8	187

2.7 Earthwork - Grading				
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Equivalent Equipment in CalEEMod NOTE: Please click on a cell and select equipment from the drop down list		Number of Equipment used	Avg Operation (hrs/day)	Assumed hp in CalEEMod
Project Construction Equipment				
Bulldozer	Rubber Tired Dozers	5	8	247
Excavator	Excavators	4	8	158
Compactor	Plate Compactors	2	8	8
Front Loader	Rubber Tired Loaders	2	8	203
Water Truck	Off-Highway Trucks	1	8	402
Scraper	Scrapers	5	8	367
Sweeper	Sweepers/Scrubbers	1	8	64
Pickup Truck	Off-Highway Trucks	32	8	402
Motor Grader	Graders	5	8	187

2.8 Earthwork - Fill (Cap Material)				
Equivalent Equipment in CalEEMod NOTE: Please click on a cell and select equipment from the drop down list		Number of Equipment used	Avg Operation (hrs/day)	Assumed hp in CalEEMod
Project Construction Equipment				
Bulldozer	Rubber Tired Dozers	10	8	247
Excavator	Excavators	2	8	158
Compactor	Plate Compactors	2	8	8
Front Loader	Rubber Tired Loaders	1	8	203
Water Truck	Off-Highway Trucks	1	8	402
Pickup Truck	Off-Highway Trucks	16	8	402

2.9 Hand Removal - Pickleweed				
Equivalent Equipment in CalEEMod NOTE: Please click on a cell and select equipment from the drop down list		Number of Equipment used	Avg Operation (hrs/day)	Assumed hp in CalEEMod
Project Construction Equipment				
Pickup Truck	Off-Highway Trucks	20	8	402

2.10 Drainage Installation				
Equivalent Equipment in CalEEMod NOTE: Please click on a cell and select equipment from the drop down list		Number of Equipment used	Avg Operation (hrs/day)	Assumed hp in CalEEMod
Project Construction Equipment				
Excavator	Excavators	1	8	158
Compactor	Plate Compactors	1	8	8
Front Loader	Rubber Tired Loaders	1	8	203
Water Truck	Off-Highway Trucks	1	8	402
Sweeper	Sweepers/Scrubbers	1	8	64
Pickup Truck	Off-Highway Trucks	5	8	402

2.11 Lime Treatment				
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Project Construction Equipment	Equivalent Equipment in CalEEMod NOTE: Please click on a cell and select equipment from the drop down list	Number of Equipment used	Avg Operation (hrs/day)	Assumed hp in CalEEMod
Grader	Graders	2	8	187
CB2.7 Drum Roller	Rollers	4	8	80
Cat RM500B	Other Construction Equipment	2	8	500
Spreader	Off-Highway Trucks	2	8	402
Water Truck	Off-Highway Trucks	4	8	402
Pickup Truck	Off-Highway Trucks	10	8	402

2.12 Erosion Control				
Project Construction Equipment	Equivalent Equipment in CalEEMod NOTE: Please click on a cell and select equipment from the drop down list	Number of Equipment used	Avg Operation (hrs/day)	Assumed hp in CalEEMod
Pickup Truck	Off-Highway Trucks	6	8	402

TABLE 3 - CONSTRUCTION EMISSIONS SUMMARY

Off-Road Construction Equipment Emissions - Criteria Air Pollutants (based on CalEEMod output)

Scenario	No. Construction workdays	Tons over Construction Period				Average Pounds per day			
		ROG	NOx	Exhaust PM-10	Exhaust PM-2.5	ROG	NOx	Exhaust PM-10	Exhaust PM-2.5
Uncontrolled Scenario									
2020		2.09	20.62	0.84	0.77				
2021		6.58	62.37	2.55	2.35				
2022		2.08	18.32	0.70	0.65				
Total	375	10.75	101.31	4.10	3.77	57.4	540.3	21.8	20.1
BAAQMD Significance Thresholds						54.0	54.0	82.0	54.0
Mitigated Scenario - Tier 4 Final equipment									
2020		0.43	2.02	0.05	0.05				
2021		1.41	7.23	0.18	0.18				
2022		0.57	2.54	0.07	0.07				
Total	375	2.41	11.79	0.31	0.31	12.8	62.9	1.7	1.7
BAAQMD Significance Thresholds						54	54	82	54.0

Construction GHG Emissions (from CalEEMod output)

Year	CO ₂ e
2020	3009
2021	10149
2022	4024
Construction Equipment Total	17182
Electricity for water use	1
Total Construction	17183
Project life	30
Amortized annual emissions	572.7

TABLE 3 - CONSTRUCTION EMISSIONS SUMMARY (continued)

GHG from water use for soil compaction and dust suppression during construction

Water use cycle process energy intensity¹ = 4000 kWh/MG
 Daily water use for construction = 4000 gallons per day
 Total water usage for project construction = 1.5 MG
 Energy used for water 6000 kWh/MG

GHG emissions	CO ₂	CH ₄	N ₂ O
Emission Factor ² (lb/MWh)	294	0.033	0.004
Energy used for water during construction (MWh)	6	6	6
Conversion from lbs to metric tons	0.000453592	0.00045359	0.000454
GHG emissions (metric tons)	0.8	8.9811E-05	1.09E-05
GWP ³	1	25	298
GHG emissions as CO ₂ e (metric tons)	0.800	0.002	0.003
Total CO₂e emissions (metric tons)	0.8		

NOTES:

1. Source: <https://www.energy.ca.gov/2005publications/CEC-700-2005-011/CEC-700-2005-011-SF.PDF>, Table C-6
2. Source for GHG emission factors: https://www.epa.gov/sites/production/files/2018-02/documents/egrid2016_summarytables.pdf, <https://www.pgecurrents.com/2018/03/26/independent-registry-confirms-record-low-carbon-emissions-for-pge/>
3. Source for GWP: <https://www.arb.ca.gov/cc/inventory/background/gwp.htm>

TABLE 4 - CONSTRUCTION ENERGY CALCULATIONS

Diesel and Gasoline Use

Diesel Sources - Construction		
Off road equipment & trucks	17060.78	MT of CO ₂
Convert to kilograms	1.71E+07	kg of CO ₂
CO ₂ from diesel fuel combustion ^a	10.21	kg of CO ₂ /gallon of diesel
Diesel Use over construction period =	1670987.58	gallons of diesel

Gasoline Sources - Construction		
Construction worker vehicles	122.396	MT of CO ₂
Convert to kilograms	1.22E+05	kg of CO ₂
CO ₂ from gasoline fuel combustion ^a	8.78	kg of CO ₂ /gallon of gasoline
Gasoline Use over construction period =	13940.32	gallons of gasoline

Notes:

^a Emissions factors per The Climate Registry 2019 Default Emission Factors (Table 2.1 - US Default Factors for Calculating CO₂ Emissions from Combustion of Transport Fuels)

Conversion	1 MT =	1000 kg
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Legacy Biosolids Lagoons Site Cleanup - Santa Clara County, Annual

Legacy Biosolids Lagoons Site Cleanup
Santa Clara County, Annual**1.0 Project Characteristics**

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	1.00	1000sqft	1.00	1,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	58
Climate Zone	4			Operational Year	2023
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	294	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

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Project Characteristics - COe Intensity factor adjusted based on <https://www.pgecurrents.com/2018/03/26/independent-registry-confirms-record-low-carbon-emissions-for-pge/>

Land Use - Unit values assumed

Construction Phase - Based on construction schedule in PD

Off-road Equipment - Project data

Off-road Equipment - Project data

Off-road Equipment - Project data

Off-road Equipment - Project data

Off-road Equipment - Project data

Off-road Equipment - Project data

Off-road Equipment - Project data

Off-road Equipment - Project data

Off-road Equipment - Project data

Off-road Equipment - Project data

Off-road Equipment - Project data

Off-road Equipment - Project data

Off-road Equipment - Project data

Off-road Equipment - Project data

Off-road Equipment - Project data

Off-road Equipment - Project data

Off-road Equipment - Project data

Trips and VMT - Average 20 workers per day assumed for all phases

Grading - Area of 23 lagoons divided by 3 grading phases

Vehicle Trips - Operational emissions not estimated in this run

Energy Use -

Construction Off-road Equipment Mitigation - Tier 4 Final equipment assumed for mitigation

Fleet Mix -

Off-road Equipment - Project data

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Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Parking	150	0
tblAreaCoating	Area_Nonresidential_Exterior	500	0
tblAreaCoating	Area_Nonresidential_Interior	1500	0
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	33.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	18.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	370.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	19.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	75.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	17.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	15.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	2.00	57.00
tblConstructionPhase	NumDays	2.00	44.00

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[illegible]

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tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	PhaseEndDate	5/29/2020	12/7/2021
tblConstructionPhase	PhaseEndDate	6/2/2020	12/9/2021
tblConstructionPhase	PhaseEndDate	6/4/2020	8/21/2022
tblConstructionPhase	PhaseEndDate	6/8/2020	9/27/2022
tblConstructionPhase	PhaseEndDate	6/10/2020	11/24/2022
tblConstructionPhase	PhaseEndDate	5/15/2020	12/8/2020
tblConstructionPhase	PhaseEndDate	5/19/2020	12/8/2020
tblConstructionPhase	PhaseEndDate	5/21/2020	7/15/2021
tblConstructionPhase	PhaseEndDate	5/25/2020	12/10/2021
tblConstructionPhase	PhaseEndDate	5/27/2020	10/19/2021
tblConstructionPhase	PhaseEndDate	5/6/2020	5/19/2020
tblConstructionPhase	PhaseEndDate	5/12/2020	7/18/2022
tblConstructionPhase	PhaseEndDate	5/13/2020	12/20/2022
tblConstructionPhase	PhaseEndDate	5/7/2020	7/29/2020
tblConstructionPhase	PhaseEndDate	5/8/2020	7/21/2020
tblConstructionPhase	PhaseEndDate	5/11/2020	5/31/2021
tblConstructionPhase	PhaseEndDate	6/10/2020	12/10/2022
tblConstructionPhase	PhaseStartDate	5/28/2020	10/2/2021
tblConstructionPhase	PhaseStartDate	5/30/2020	10/20/2021
tblConstructionPhase	PhaseStartDate	6/3/2020	7/18/2022
tblConstructionPhase	PhaseStartDate	6/5/2020	8/22/2022
tblConstructionPhase	PhaseStartDate	6/9/2020	9/28/2022
tblConstructionPhase	PhaseStartDate	5/14/2020	7/22/2020

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tblConstructionPhase	PhaseStartDate	5/16/2020	7/22/2020
tblConstructionPhase	PhaseStartDate	5/20/2020	5/1/2021
tblConstructionPhase	PhaseStartDate	5/22/2020	5/1/2021
tblConstructionPhase	PhaseStartDate	5/26/2020	7/16/2021
tblConstructionPhase	PhaseStartDate	5/12/2020	5/1/2022
tblConstructionPhase	PhaseStartDate	5/13/2020	12/11/2022
tblConstructionPhase	PhaseStartDate	5/7/2020	7/16/2020
tblConstructionPhase	PhaseStartDate	5/8/2020	7/16/2020
tblConstructionPhase	PhaseStartDate	5/9/2020	5/2/2021
tblConstructionPhase	PhaseStartDate	6/11/2020	12/2/2022
tblGrading	AcresOfGrading	0.00	6.00
tblGrading	AcresOfGrading	6.00	0.00
tblGrading	AcresOfGrading	0.00	4.00
tblGrading	AcresOfGrading	0.00	2.50
tblGrading	AcresOfGrading	67.00	0.00
tblGrading	AcresOfGrading	225.00	64.00
tblGrading	AcresOfGrading	240.00	64.00
tblGrading	AcresOfGrading	375.00	64.00
tblGrading	AcresOfGrading	0.00	12.50
tblLandUse	LotAcreage	0.02	1.00
tblOffRoadEquipment	HorsePower	172.00	500.00
tblOffRoadEquipment	HorsePower	172.00	500.00
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	5.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	5.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	5.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00

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tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	294
tblTripsAndVMT	HaulingTripNumber	0.00	9,444.00
tblTripsAndVMT	HaulingTripNumber	0.00	402.00
tblTripsAndVMT	HaulingTripNumber	0.00	32.00
tblTripsAndVMT	HaulingTripNumber	0.00	1,250.00
tblTripsAndVMT	WorkerTripNumber	50.00	40.00
tblTripsAndVMT	WorkerTripNumber	80.00	40.00
tblTripsAndVMT	WorkerTripNumber	155.00	40.00
tblTripsAndVMT	WorkerTripNumber	60.00	40.00
tblTripsAndVMT	WorkerTripNumber	143.00	40.00
tblTripsAndVMT	WorkerTripNumber	148.00	40.00
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tblTripsAndVMT	WorkerTripNumber	15.00	40.00
tblTripsAndVMT	WorkerTripNumber	25.00	40.00
tblTripsAndVMT	WorkerTripNumber	8.00	40.00
tblTripsAndVMT	WorkerTripNumber	78.00	40.00
tblTripsAndVMT	WorkerTripNumber	43.00	40.00
tblTripsAndVMT	WorkerTripNumber	155.00	40.00
tblTripsAndVMT	WorkerTripNumber	80.00	40.00
tblTripsAndVMT	WorkerTripNumber	50.00	40.00
tblTripsAndVMT	WorkerTripNumber	155.00	40.00
tblVehicleTrips	ST_TR	2.49	0.00
tblVehicleTrips	SU_TR	0.73	0.00
tblVehicleTrips	WD_TR	6.83	0.00

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2.0 Emissions Summary

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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					
2020	2.0896	20.6189	11.1141	0.0339	3.6710	0.8407	4.5117	2.0009	0.7735	2.7744	0.0000	2,985.8320	2,985.8320	0.9407	0.0000	3,009.3490
2021	6.5820	62.3741	35.5498	0.1143	13.4090	2.5508	15.9598	7.3249	2.3472	9.6720	0.0000	10,070.2701	10,070.2701	3.1367	0.0000	10,148.6871
2022	2.0824	18.3208	13.3983	0.0455	1.8247	0.7037	2.5284	0.9473	0.6475	1.5948	0.0000	3,992.3758	3,992.3758	1.2785	0.0000	4,024.3375
Maximum	6.5820	62.3741	35.5498	0.1143	13.4090	2.5508	15.9598	7.3249	2.3472	9.6720	0.0000	10,070.2701	10,070.2701	3.1367	0.0000	10,148.6871

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					
2020	0.4289	2.0220	15.3361	0.0339	3.6710	0.0547	3.7258	2.0009	0.0547	2.0556	0.0000	2,985.8286	2,985.8286	0.9407	0.0000	3,009.3456
2021	1.4125	7.2290	50.8395	0.1143	13.4090	0.1836	13.5926	7.3249	0.1834	7.5082	0.0000	10,070.2586	10,070.2586	3.1367	0.0000	10,148.6755
2022	0.5656	2.5436	20.8040	0.0455	1.8247	0.0737	1.8985	0.9473	0.0737	1.0210	0.0000	3,992.3711	3,992.3711	1.2785	0.0000	4,024.3328
Maximum	1.4125	7.2290	50.8395	0.1143	13.4090	0.1836	13.5926	7.3249	0.1834	7.5082	0.0000	10,070.2586	10,070.2586	3.1367	0.0000	10,148.6755

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	77.62	88.36	-44.82	0.00	0.00	92.38	16.45	0.00	91.73	24.62	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	5-6-2020	8-5-2020	3.6953	0.5604
2	8-6-2020	11-5-2020	13.9925	1.3894
3	11-6-2020	2-5-2021	5.0195	0.4988
4	2-6-2021	5-5-2021	1.5372	0.1757
5	5-6-2021	8-5-2021	25.8856	2.8774
6	8-6-2021	11-5-2021	28.7089	3.6938
7	11-6-2021	2-5-2022	12.9599	1.9249
8	2-6-2022	5-5-2022	0.2342	0.0416
9	5-6-2022	8-5-2022	5.8482	0.9590
10	8-6-2022	9-30-2022	7.1246	1.0507
		Highest	28.7089	3.6938

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2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	3.9100e-003	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005
Energy	9.0000e-005	8.0000e-004	6.7000e-004	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	3.2513	3.2513	2.5000e-004	6.0000e-005	3.2768
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	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.2517	0.0000	0.2517	0.0149	0.0000	0.6236
Water						0.0000	0.0000		0.0000	0.0000	0.0734	0.1669	0.2402	7.5500e-003	1.8000e-004	0.4831
Total	4.0000e-003	8.0000e-004	6.8000e-004	0.0000	0.0000	6.0000e-005	6.0000e-005	0.0000	6.0000e-005	6.0000e-005	0.3251	3.4182	3.7433	0.0227	2.4000e-004	4.3835

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2.2 Overall Operational**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	3.9100e-003	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005
Energy	9.0000e-005	8.0000e-004	6.7000e-004	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	3.2513	3.2513	2.5000e-004	6.0000e-005	3.2768
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	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.2517	0.0000	0.2517	0.0149	0.0000	0.6236
Water						0.0000	0.0000		0.0000	0.0000	0.0734	0.1669	0.2402	7.5500e-003	1.8000e-004	0.4831
Total	4.0000e-003	8.0000e-004	6.8000e-004	0.0000	0.0000	6.0000e-005	6.0000e-005	0.0000	6.0000e-005	6.0000e-005	0.3251	3.4182	3.7433	0.0227	2.4000e-004	4.3835

	ROG	NOx	CO	SO2	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**

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	1.1 Earthwork - Cut (Biosolids Removal)	Grading	7/22/2020	12/8/2020	6	120	
2	1.2 Earthwork - Fill	Grading	7/22/2020	12/8/2020	6	120	
3	1.3 Hand Removal - Pickleweed	Site Preparation	5/6/2020	5/19/2020	6	12	
4	1.4 Base Aggregate	Site Preparation	7/16/2020	7/29/2020	6	12	
5	1.5 Erosion Control	Site Preparation	7/16/2020	7/21/2020	6	5	
6	2.1 Earthwork - Cut (Biosolids Removal)	Grading	5/1/2021	7/15/2021	6	65	
7	2.10 Drainage Installation	Trenching	12/2/2022	12/10/2022	6	8	
8	2.11 Lime Treatment	Site Preparation	5/1/2022	7/18/2022	6	67	
9	2.12 Erosion Control	Site Preparation	12/11/2022	12/20/2022	6	8	
10	2.2 Earthwork - Cut (Biosolids Removal)	Grading	7/16/2021	10/19/2021	6	82	
11	2.3 Earthwork - Cut (Biosolids Removal)	Grading	10/20/2021	12/9/2021	6	44	
12	2.4 Earthwork - Fill (Consolidation Pile)	Grading	5/1/2021	12/10/2021	6	192	
13	2.5 Earthwork - Grading	Grading	7/18/2022	8/21/2022	6	30	
14	2.6 Earthwork - Grading	Grading	8/22/2022	9/27/2022	6	32	
15	2.7 Earthwork - Grading	Grading	9/28/2022	11/24/2022	6	50	
16	2.8 Earthwork - Fill (Cap Material)	Grading	10/2/2021	12/7/2021	6	57	
17	2.9 Hand Removal - Pickleweed	Site Preparation	5/2/2021	5/31/2021	6	25	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
1.3 Hand Removal - Pickleweed	Off-Highway Trucks	20	8.00	402	0.38
1.4 Base Aggregate	Graders	1	8.00	187	0.41
1.4 Base Aggregate	Off-Highway Trucks	6	8.00	402	0.38
1.4 Base Aggregate	Other Construction Equipment	0	8.00	500	0.42
1.4 Base Aggregate	Rollers	2	8.00	80	0.38
1.5 Erosion Control	Off-Highway Trucks	3	8.00	402	0.38
1.1 Earthwork - Cut (Biosolids Removal)	Excavators	2	8.00	158	0.38
1.1 Earthwork - Cut (Biosolids Removal)	Off-Highway Trucks	21	8.00	402	0.38
1.1 Earthwork - Cut (Biosolids Removal)	Plate Compactors	1	8.00	8	0.43
1.1 Earthwork - Cut (Biosolids Removal)	Rubber Tired Dozers	5	8.00	247	0.40
1.1 Earthwork - Cut (Biosolids Removal)	Rubber Tired Loaders	1	8.00	203	0.36
1.1 Earthwork - Cut (Biosolids Removal)	Sweepers/Scrubbers	1	8.00	64	0.46
1.2 Earthwork - Fill	Excavators	1	8.00	158	0.38
1.2 Earthwork - Fill	Off-Highway Trucks	9	8.00	402	0.38
1.2 Earthwork - Fill	Plate Compactors	1	8.00	8	0.43
1.2 Earthwork - Fill	Rubber Tired Dozers	5	8.00	247	0.40
1.2 Earthwork - Fill	Rubber Tired Loaders	1	8.00	203	0.36
2.1 Earthwork - Cut (Biosolids Removal)	Excavators	4	8.00	158	0.38
2.1 Earthwork - Cut (Biosolids Removal)	Off-Highway Trucks	43	8.00	402	0.38
2.1 Earthwork - Cut (Biosolids Removal)	Plate Compactors	2	8.00	8	0.43
2.1 Earthwork - Cut (Biosolids Removal)	Rubber Tired Dozers	10	8.00	247	0.40
2.1 Earthwork - Cut (Biosolids Removal)	Rubber Tired Loaders	2	8.00	203	0.36
2.1 Earthwork - Cut (Biosolids Removal)	Sweepers/Scrubbers	1	8.00	64	0.46

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2.4 Earthwork - Fill (Consolidation Pile)	Excavators	2	8.00	158	0.38
2.4 Earthwork - Fill (Consolidation Pile)	Off-Highway Trucks	17	8.00	402	0.38
2.4 Earthwork - Fill (Consolidation Pile)	Plate Compactors	2	8.00	8	0.43
2.4 Earthwork - Fill (Consolidation Pile)	Rubber Tired Dozers	10	8.00	247	0.40
2.4 Earthwork - Fill (Consolidation Pile)	Rubber Tired Loaders	1	8.00	203	0.36
2.9 Hand Removal - Pickleweed	Off-Highway Trucks	20	8.00	402	0.38
2.2 Earthwork - Cut (Biosolids Removal)	Excavators	4	8.00	158	0.38
2.2 Earthwork - Cut (Biosolids Removal)	Off-Highway Trucks	43	8.00	402	0.38
2.2 Earthwork - Cut (Biosolids Removal)	Plate Compactors	2	8.00	8	0.43
2.2 Earthwork - Cut (Biosolids Removal)	Rubber Tired Dozers	10	8.00	247	0.40
2.2 Earthwork - Cut (Biosolids Removal)	Rubber Tired Loaders	2	8.00	203	0.36
2.2 Earthwork - Cut (Biosolids Removal)	Sweepers/Scrubbers	1	8.00	64	0.46
2.8 Earthwork - Fill (Cap Material)	Excavators	2	8.00	158	0.38
2.8 Earthwork - Fill (Cap Material)	Off-Highway Trucks	17	8.00	402	0.38
2.8 Earthwork - Fill (Cap Material)	Plate Compactors	2	8.00	8	0.43
2.8 Earthwork - Fill (Cap Material)	Rubber Tired Dozers	10	8.00	247	0.40
2.8 Earthwork - Fill (Cap Material)	Rubber Tired Loaders	1	8.00	203	0.36
2.3 Earthwork - Cut (Biosolids Removal)	Excavators	4	8.00	158	0.38
2.3 Earthwork - Cut (Biosolids Removal)	Off-Highway Trucks	43	8.00	402	0.38
2.3 Earthwork - Cut (Biosolids Removal)	Plate Compactors	2	8.00	8	0.43
2.3 Earthwork - Cut (Biosolids Removal)	Rubber Tired Dozers	10	8.00	247	0.40
2.3 Earthwork - Cut (Biosolids Removal)	Rubber Tired Loaders	2	8.00	203	0.36
2.3 Earthwork - Cut (Biosolids Removal)	Sweepers/Scrubbers	1	8.00	64	0.46
2.11 Lime Treatment	Graders	2	8.00	187	0.41

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2.11 Lime Treatment	Off-Highway Trucks	16	8.00	402	0.38
2.11 Lime Treatment	Other Construction Equipment	2	8.00	500	0.42
2.11 Lime Treatment	Rollers	4	8.00	80	0.38
2.5 Earthwork - Grading	Excavators	4	8.00	158	0.38
2.5 Earthwork - Grading	Graders	5	8.00	187	0.41
2.5 Earthwork - Grading	Off-Highway Trucks	33	8.00	402	0.38
2.5 Earthwork - Grading	Plate Compactors	2	8.00	8	0.43
2.5 Earthwork - Grading	Rubber Tired Dozers	5	8.00	247	0.40
2.5 Earthwork - Grading	Rubber Tired Loaders	2	8.00	203	0.36
2.5 Earthwork - Grading	Scrapers	5	8.00	367	0.48
2.5 Earthwork - Grading	Sweepers/Scrubbers	1	8.00	64	0.46
2.6 Earthwork - Grading	Excavators	4	8.00	158	0.38
2.6 Earthwork - Grading	Graders	5	8.00	187	0.41
2.6 Earthwork - Grading	Off-Highway Trucks	34	8.00	402	0.38
2.6 Earthwork - Grading	Plate Compactors	2	8.00	8	0.43
2.6 Earthwork - Grading	Rubber Tired Dozers	5	8.00	247	0.40
2.6 Earthwork - Grading	Rubber Tired Loaders	2	8.00	203	0.36
2.6 Earthwork - Grading	Scrapers	5	8.00	367	0.48
2.6 Earthwork - Grading	Sweepers/Scrubbers	2	8.00	64	0.46
2.7 Earthwork - Grading	Excavators	4	8.00	158	0.38
2.7 Earthwork - Grading	Graders	5	8.00	187	0.41
2.7 Earthwork - Grading	Off-Highway Trucks	33	8.00	402	0.38
2.7 Earthwork - Grading	Plate Compactors	2	8.00	8	0.43
2.7 Earthwork - Grading	Rubber Tired Dozers	5	8.00	247	0.40
2.7 Earthwork - Grading	Rubber Tired Loaders	2	8.00	203	0.36
2.7 Earthwork - Grading	Scrapers	5	8.00	367	0.48
2.7 Earthwork - Grading	Sweepers/Scrubbers	1	8.00	64	0.46

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2.10 Drainage Installation	Excavators	1	8.00	158	0.38
2.10 Drainage Installation	Off-Highway Trucks	6	8.00	402	0.38
2.10 Drainage Installation	Plate Compactors	1	8.00	8	0.43
2.10 Drainage Installation	Rubber Tired Loaders	1	8.00	203	0.36
2.10 Drainage Installation	Sweepers/Scrubbers	1	8.00	64	0.46
2.12 Erosion Control	Off-Highway Trucks	6	8.00	402	0.38
1.1 Earthwork - Cut (Biosolids Removal)	Graders	0	6.00	187	0.41
2.2 Earthwork - Cut (Biosolids Removal)	Graders	0	6.00	187	0.41
2.3 Earthwork - Cut (Biosolids Removal)	Graders	0	6.00	187	0.41
2.4 Earthwork - Fill (Consolidation Pile)	Graders	0	6.00	187	0.41
2.8 Earthwork - Fill (Cap Material)	Graders	0	6.00	187	0.41
1.2 Earthwork - Fill	Graders	0	6.00	187	0.41
2.1 Earthwork - Cut (Biosolids Removal)	Graders	0	6.00	187	0.41
2.9 Hand Removal - Pickleweed	Graders	0	8.00	187	0.41
1.3 Hand Removal - Pickleweed	Graders	0	8.00	187	0.41
1.5 Erosion Control	Graders	0	8.00	187	0.41
2.12 Erosion Control	Graders	0	8.00	187	0.41
2.9 Hand Removal - Pickleweed	Rubber Tired Dozers	0	7.00	247	0.40
1.3 Hand Removal - Pickleweed	Rubber Tired Dozers	0	7.00	247	0.40
1.4 Base Aggregate	Rubber Tired Dozers	0	7.00	247	0.40
1.5 Erosion Control	Rubber Tired Dozers	0	7.00	247	0.40
2.11 Lime Treatment	Rubber Tired Dozers	0	7.00	247	0.40
2.12 Erosion Control	Rubber Tired Dozers	0	7.00	247	0.40
1.1 Earthwork - Cut (Biosolids Removal)	Tractors/Loaders/Backhoes	0	7.00	97	0.37
2.2 Earthwork - Cut (Biosolids Removal)	Tractors/Loaders/Backhoes	0	7.00	97	0.37

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2.3 Earthwork - Cut (Biosolids Removal)	Tractors/Loaders/Backhoes	0	7.00	97	0.37
2.4 Earthwork - Fill (Consolidation Pile)	Tractors/Loaders/Backhoes	0	7.00	97	0.37
2.5 Earthwork - Grading	Tractors/Loaders/Backhoes	0	7.00	97	0.37
2.6 Earthwork - Grading	Tractors/Loaders/Backhoes	0	7.00	97	0.37
2.7 Earthwork - Grading	Tractors/Loaders/Backhoes	0	7.00	97	0.37
2.8 Earthwork - Fill (Cap Material)	Tractors/Loaders/Backhoes	0	7.00	97	0.37
1.2 Earthwork - Fill	Tractors/Loaders/Backhoes	0	7.00	97	0.37
2.1 Earthwork - Cut (Biosolids Removal)	Tractors/Loaders/Backhoes	0	7.00	97	0.37
2.9 Hand Removal - Pickleweed	Tractors/Loaders/Backhoes	0	8.00	97	0.37
1.3 Hand Removal - Pickleweed	Tractors/Loaders/Backhoes	0	8.00	97	0.37
1.4 Base Aggregate	Tractors/Loaders/Backhoes	0	8.00	97	0.37
1.5 Erosion Control	Tractors/Loaders/Backhoes	0	8.00	97	0.37
2.11 Lime Treatment	Tractors/Loaders/Backhoes	0	8.00	97	0.37
2.12 Erosion Control	Tractors/Loaders/Backhoes	0	8.00	97	0.37
1.4 Base Aggregate	Excavators	1	8.00	158	0.38

Trips and VMT

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Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
1.3 Hand Removal - Pickleweed	20	40.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1.4 Base Aggregate	10	40.00	0.00	1,250.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1.5 Erosion Control	3	40.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1.1 Earthwork - Cut (Biosolids Removal)	31	40.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
1.2 Earthwork - Fill	17	40.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
2.1 Earthwork - Cut (Biosolids Removal)	62	40.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
2.4 Earthwork - Fill (Consolidation Pile)	32	40.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
2.9 Hand Removal - Pickleweed	20	40.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
2.2 Earthwork - Cut (Biosolids Removal)	62	40.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
2.8 Earthwork - Fill (Cap Material)	32	40.00	0.00	9,444.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
2.3 Earthwork - Cut (Biosolids Removal)	62	40.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
2.11 Lime Treatment	24	40.00	0.00	402.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
2.5 Earthwork - Grading	57	40.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
2.6 Earthwork - Grading	59	40.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
2.7 Earthwork - Grading	57	40.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
2.10 Drainage Installation	10	40.00	0.00	32.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
2.12 Erosion Control	6	40.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Legacy Biosolids Lagoons Site Cleanup - Santa Clara County, Annual

3.2 1.1 Earthwork - Cut (Biosolids Removal) - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.8066	0.0000	1.8066	0.9931	0.0000	0.9931	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.2298	12.0751	6.6623	0.0204		0.4914	0.4914		0.4521	0.4521	0.0000	1,789.3581	1,789.3581	0.5783	0.0000	1,803.8156
Total	1.2298	12.0751	6.6623	0.0204	1.8066	0.4914	2.2980	0.9931	0.4521	1.4452	0.0000	1,789.3581	1,789.3581	0.5783	0.0000	1,803.8156

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	7.9700e-003	5.7300e-003	0.0601	1.8000e-004	0.0190	1.2000e-004	0.0192	5.0600e-003	1.1000e-004	5.1800e-003	0.0000	16.3236	16.3236	4.0000e-004	0.0000	16.3336
Total	7.9700e-003	5.7300e-003	0.0601	1.8000e-004	0.0190	1.2000e-004	0.0192	5.0600e-003	1.1000e-004	5.1800e-003	0.0000	16.3236	16.3236	4.0000e-004	0.0000	16.3336

Legacy Biosolids Lagoons Site Cleanup - Santa Clara County, Annual

3.2 1.1 Earthwork - Cut (Biosolids Removal) - 2020**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.8066	0.0000	1.8066	0.9931	0.0000	0.9931	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2511	1.1571	9.3740	0.0204		0.0332	0.0332		0.0332	0.0332	0.0000	1,789.3559	1,789.3559	0.5783	0.0000	1,803.8135
Total	0.2511	1.1571	9.3740	0.0204	1.8066	0.0332	1.8399	0.9931	0.0332	1.0263	0.0000	1,789.3559	1,789.3559	0.5783	0.0000	1,803.8135

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	7.9700e-003	5.7300e-003	0.0601	1.8000e-004	0.0190	1.2000e-004	0.0192	5.0600e-003	1.1000e-004	5.1800e-003	0.0000	16.3236	16.3236	4.0000e-004	0.0000	16.3336
Total	7.9700e-003	5.7300e-003	0.0601	1.8000e-004	0.0190	1.2000e-004	0.0192	5.0600e-003	1.1000e-004	5.1800e-003	0.0000	16.3236	16.3236	4.0000e-004	0.0000	16.3336

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3.3 1.2 Earthwork - Fill - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.8066	0.0000	1.8066	0.9931	0.0000	0.9931	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.7215	7.2384	3.6038	0.0104		0.3073	0.3073		0.2827	0.2827	0.0000	913.5750	913.5750	0.2951	0.0000	920.9515
Total	0.7215	7.2384	3.6038	0.0104	1.8066	0.3073	2.1139	0.9931	0.2827	1.2758	0.0000	913.5750	913.5750	0.2951	0.0000	920.9515

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	7.9700e-003	5.7300e-003	0.0601	1.8000e-004	0.0190	1.2000e-004	0.0192	5.0600e-003	1.1000e-004	5.1800e-003	0.0000	16.3236	16.3236	4.0000e-004	0.0000	16.3336
Total	7.9700e-003	5.7300e-003	0.0601	1.8000e-004	0.0190	1.2000e-004	0.0192	5.0600e-003	1.1000e-004	5.1800e-003	0.0000	16.3236	16.3236	4.0000e-004	0.0000	16.3336

Legacy Biosolids Lagoons Site Cleanup - Santa Clara County, Annual

3.3 1.2 Earthwork - Fill - 2020**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.8066	0.0000	1.8066	0.9931	0.0000	0.9931	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1271	0.5508	4.7560	0.0104		0.0170	0.0170		0.0170	0.0170	0.0000	913.5740	913.5740	0.2951	0.0000	920.9504
Total	0.1271	0.5508	4.7560	0.0104	1.8066	0.0170	1.8236	0.9931	0.0170	1.0100	0.0000	913.5740	913.5740	0.2951	0.0000	920.9504

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	7.9700e-003	5.7300e-003	0.0601	1.8000e-004	0.0190	1.2000e-004	0.0192	5.0600e-003	1.1000e-004	5.1800e-003	0.0000	16.3236	16.3236	4.0000e-004	0.0000	16.3336
Total	7.9700e-003	5.7300e-003	0.0601	1.8000e-004	0.0190	1.2000e-004	0.0192	5.0600e-003	1.1000e-004	5.1800e-003	0.0000	16.3236	16.3236	4.0000e-004	0.0000	16.3336

Legacy Biosolids Lagoons Site Cleanup - Santa Clara County, Annual

3.4 1.3 Hand Removal - Pickleweed - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.1800e-003	0.0000	3.1800e-003	3.4000e-004	0.0000	3.4000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0796	0.7587	0.4572	1.5800e-003		0.0276	0.0276		0.0254	0.0254	0.0000	139.1936	139.1936	0.0450	0.0000	140.3190
Total	0.0796	0.7587	0.4572	1.5800e-003	3.1800e-003	0.0276	0.0308	3.4000e-004	0.0254	0.0258	0.0000	139.1936	139.1936	0.0450	0.0000	140.3190

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	8.0000e-004	5.7000e-004	6.0100e-003	2.0000e-005	1.9000e-003	1.0000e-005	1.9200e-003	5.1000e-004	1.0000e-005	5.2000e-004	0.0000	1.6324	1.6324	4.0000e-005	0.0000	1.6334
Total	8.0000e-004	5.7000e-004	6.0100e-003	2.0000e-005	1.9000e-003	1.0000e-005	1.9200e-003	5.1000e-004	1.0000e-005	5.2000e-004	0.0000	1.6324	1.6324	4.0000e-005	0.0000	1.6334

Legacy Biosolids Lagoons Site Cleanup - Santa Clara County, Annual

3.4 1.3 Hand Removal - Pickleweed - 2020**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.1800e-003	0.0000	3.1800e-003	3.4000e-004	0.0000	3.4000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0194	0.0841	0.7113	1.5800e-003		2.5900e-003	2.5900e-003		2.5900e-003	2.5900e-003	0.0000	139.1934	139.1934	0.0450	0.0000	140.3189
Total	0.0194	0.0841	0.7113	1.5800e-003	3.1800e-003	2.5900e-003	5.7700e-003	3.4000e-004	2.5900e-003	2.9300e-003	0.0000	139.1934	139.1934	0.0450	0.0000	140.3189

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	8.0000e-004	5.7000e-004	6.0100e-003	2.0000e-005	1.9000e-003	1.0000e-005	1.9200e-003	5.1000e-004	1.0000e-005	5.2000e-004	0.0000	1.6324	1.6324	4.0000e-005	0.0000	1.6334
Total	8.0000e-004	5.7000e-004	6.0100e-003	2.0000e-005	1.9000e-003	1.0000e-005	1.9200e-003	5.1000e-004	1.0000e-005	5.2000e-004	0.0000	1.6324	1.6324	4.0000e-005	0.0000	1.6334

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3.5 1.4 Base Aggregate - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0307	0.3050	0.1904	5.8000e-004		0.0118	0.0118		0.0109	0.0109	0.0000	50.7445	50.7445	0.0164	0.0000	51.1548
Total	0.0307	0.3050	0.1904	5.8000e-004	0.0000	0.0118	0.0118	0.0000	0.0109	0.0109	0.0000	50.7445	50.7445	0.0164	0.0000	51.1548

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	5.1900e-003	0.1814	0.0371	4.9000e-004	0.0106	5.9000e-004	0.0112	2.9100e-003	5.6000e-004	3.4800e-003	0.0000	47.6693	47.6693	2.1800e-003	0.0000	47.7238
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.0000e-004	5.7000e-004	6.0100e-003	2.0000e-005	1.9000e-003	1.0000e-005	1.9200e-003	5.1000e-004	1.0000e-005	5.2000e-004	0.0000	1.6324	1.6324	4.0000e-005	0.0000	1.6334
Total	5.9900e-003	0.1819	0.0432	5.1000e-004	0.0125	6.0000e-004	0.0131	3.4200e-003	5.7000e-004	4.0000e-003	0.0000	49.3016	49.3016	2.2200e-003	0.0000	49.3571

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3.5 1.4 Base Aggregate - 2020**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.0700e-003	0.0307	0.2786	5.8000e-004		9.4000e-004	9.4000e-004		9.4000e-004	9.4000e-004	0.0000	50.7444	50.7444	0.0164	0.0000	51.1547
Total	7.0700e-003	0.0307	0.2786	5.8000e-004	0.0000	9.4000e-004	9.4000e-004	0.0000	9.4000e-004	9.4000e-004	0.0000	50.7444	50.7444	0.0164	0.0000	51.1547

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	5.1900e-003	0.1814	0.0371	4.9000e-004	0.0106	5.9000e-004	0.0112	2.9100e-003	5.6000e-004	3.4800e-003	0.0000	47.6693	47.6693	2.1800e-003	0.0000	47.7238
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.0000e-004	5.7000e-004	6.0100e-003	2.0000e-005	1.9000e-003	1.0000e-005	1.9200e-003	5.1000e-004	1.0000e-005	5.2000e-004	0.0000	1.6324	1.6324	4.0000e-005	0.0000	1.6334
Total	5.9900e-003	0.1819	0.0432	5.1000e-004	0.0125	6.0000e-004	0.0131	3.4200e-003	5.7000e-004	4.0000e-003	0.0000	49.3016	49.3016	2.2200e-003	0.0000	49.3571

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3.6 1.5 Erosion Control - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.3300e-003	0.0000	1.3300e-003	1.4000e-004	0.0000	1.4000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.9700e-003	0.0474	0.0286	1.0000e-004		1.7300e-003	1.7300e-003		1.5900e-003	1.5900e-003	0.0000	8.6996	8.6996	2.8100e-003	0.0000	8.7699
Total	4.9700e-003	0.0474	0.0286	1.0000e-004	1.3300e-003	1.7300e-003	3.0600e-003	1.4000e-004	1.5900e-003	1.7300e-003	0.0000	8.6996	8.6996	2.8100e-003	0.0000	8.7699

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	3.3000e-004	2.4000e-004	2.5000e-003	1.0000e-005	7.9000e-004	1.0000e-005	8.0000e-004	2.1000e-004	0.0000	2.2000e-004	0.0000	0.6802	0.6802	2.0000e-005	0.0000	0.6806
Total	3.3000e-004	2.4000e-004	2.5000e-003	1.0000e-005	7.9000e-004	1.0000e-005	8.0000e-004	2.1000e-004	0.0000	2.2000e-004	0.0000	0.6802	0.6802	2.0000e-005	0.0000	0.6806

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3.6 1.5 Erosion Control - 2020**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.3300e-003	0.0000	1.3300e-003	1.4000e-004	0.0000	1.4000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.2100e-003	5.2500e-003	0.0445	1.0000e-004		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	8.6996	8.6996	2.8100e-003	0.0000	8.7699
Total	1.2100e-003	5.2500e-003	0.0445	1.0000e-004	1.3300e-003	1.6000e-004	1.4900e-003	1.4000e-004	1.6000e-004	3.0000e-004	0.0000	8.6996	8.6996	2.8100e-003	0.0000	8.7699

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	3.3000e-004	2.4000e-004	2.5000e-003	1.0000e-005	7.9000e-004	1.0000e-005	8.0000e-004	2.1000e-004	0.0000	2.2000e-004	0.0000	0.6802	0.6802	2.0000e-005	0.0000	0.6806
Total	3.3000e-004	2.4000e-004	2.5000e-003	1.0000e-005	7.9000e-004	1.0000e-005	8.0000e-004	2.1000e-004	0.0000	2.2000e-004	0.0000	0.6802	0.6802	2.0000e-005	0.0000	0.6806

Legacy Biosolids Lagoons Site Cleanup - Santa Clara County, Annual

3.7 2.1 Earthwork - Cut (Biosolids Removal) - 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					1.9572	0.0000	1.9572	1.0758	0.0000	1.0758	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.2489	11.5355	6.9557	0.0224		0.4704	0.4704		0.4328	0.4328	0.0000	1,968.8013	1,968.8013	0.6363	0.0000	1,984.7089
Total	1.2489	11.5355	6.9557	0.0224	1.9572	0.4704	2.4275	1.0758	0.4328	1.5086	0.0000	1,968.8013	1,968.8013	0.6363	0.0000	1,984.7089

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	4.0000e-003	2.7700e-003	0.0297	9.0000e-005	0.0103	6.0000e-005	0.0104	2.7400e-003	6.0000e-005	2.8000e-003	0.0000	8.5350	8.5350	1.9000e-004	0.0000	8.5399
Total	4.0000e-003	2.7700e-003	0.0297	9.0000e-005	0.0103	6.0000e-005	0.0104	2.7400e-003	6.0000e-005	2.8000e-003	0.0000	8.5350	8.5350	1.9000e-004	0.0000	8.5399

Legacy Biosolids Lagoons Site Cleanup - Santa Clara County, Annual

3.7 2.1 Earthwork - Cut (Biosolids Removal) - 2021**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.9572	0.0000	1.9572	1.0758	0.0000	1.0758	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2752	1.2300	10.2854	0.0224		0.0366	0.0366		0.0366	0.0366	0.0000	1,968.7989	1,968.7989	0.6363	0.0000	1,984.7065
Total	0.2752	1.2300	10.2854	0.0224	1.9572	0.0366	1.9937	1.0758	0.0366	1.1124	0.0000	1,968.7989	1,968.7989	0.6363	0.0000	1,984.7065

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	4.0000e-003	2.7700e-003	0.0297	9.0000e-005	0.0103	6.0000e-005	0.0104	2.7400e-003	6.0000e-005	2.8000e-003	0.0000	8.5350	8.5350	1.9000e-004	0.0000	8.5399
Total	4.0000e-003	2.7700e-003	0.0297	9.0000e-005	0.0103	6.0000e-005	0.0104	2.7400e-003	6.0000e-005	2.8000e-003	0.0000	8.5350	8.5350	1.9000e-004	0.0000	8.5399

Legacy Biosolids Lagoons Site Cleanup - Santa Clara County, Annual

3.8 2.10 Drainage Installation - 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	tons/yr										MT/yr					
Off-Road	0.0156	0.1238	0.1083	3.7000e-004		4.7700e-003	4.7700e-003		4.3900e-003	4.3900e-003	0.0000	32.8773	32.8773	0.0106	0.0000	33.1424
Total	0.0156	0.1238	0.1083	3.7000e-004		4.7700e-003	4.7700e-003		4.3900e-003	4.3900e-003	0.0000	32.8773	32.8773	0.0106	0.0000	33.1424

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	1.2000e-004	3.9300e-003	9.2000e-004	1.0000e-005	2.7000e-004	1.0000e-005	2.8000e-004	7.0000e-005	1.0000e-005	9.0000e-005	0.0000	1.1886	1.1886	5.0000e-005	0.0000	1.1900
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	4.6000e-004	3.1000e-004	3.3600e-003	1.0000e-005	1.2700e-003	1.0000e-005	1.2800e-003	3.4000e-004	1.0000e-005	3.4000e-004	0.0000	1.0123	1.0123	2.0000e-005	0.0000	1.0129
Total	5.8000e-004	4.2400e-003	4.2800e-003	2.0000e-005	1.5400e-003	2.0000e-005	1.5600e-003	4.1000e-004	2.0000e-005	4.3000e-004	0.0000	2.2009	2.2009	7.0000e-005	0.0000	2.2028

Legacy Biosolids Lagoons Site Cleanup - Santa Clara County, Annual

3.8 2.10 Drainage Installation - 2022**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	4.6900e-003	0.0249	0.1770	3.7000e-004		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004	0.0000	32.8772	32.8772	0.0106	0.0000	33.1424
Total	4.6900e-003	0.0249	0.1770	3.7000e-004		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004	0.0000	32.8772	32.8772	0.0106	0.0000	33.1424

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	1.2000e-004	3.9300e-003	9.2000e-004	1.0000e-005	2.7000e-004	1.0000e-005	2.8000e-004	7.0000e-005	1.0000e-005	9.0000e-005	0.0000	1.1886	1.1886	5.0000e-005	0.0000	1.1900
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	4.6000e-004	3.1000e-004	3.3600e-003	1.0000e-005	1.2700e-003	1.0000e-005	1.2800e-003	3.4000e-004	1.0000e-005	3.4000e-004	0.0000	1.0123	1.0123	2.0000e-005	0.0000	1.0129
Total	5.8000e-004	4.2400e-003	4.2800e-003	2.0000e-005	1.5400e-003	2.0000e-005	1.5600e-003	4.1000e-004	2.0000e-005	4.3000e-004	0.0000	2.2009	2.2009	7.0000e-005	0.0000	2.2028

Legacy Biosolids Lagoons Site Cleanup - Santa Clara County, Annual

3.9 2.11 Lime Treatment - 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	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3800	3.2251	2.5218	9.1000e-003		0.1212	0.1212		0.1115	0.1115	0.0000	798.9320	798.9320	0.2584	0.0000	805.3918
Total	0.3800	3.2251	2.5218	9.1000e-003	0.0000	0.1212	0.1212	0.0000	0.1115	0.1115	0.0000	798.9320	798.9320	0.2584	0.0000	805.3918

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	1.4900e-003	0.0494	0.0115	1.5000e-004	3.4100e-003	1.4000e-004	3.5500e-003	9.4000e-004	1.4000e-004	1.0700e-003	0.0000	14.9319	14.9319	6.7000e-004	0.0000	14.9487
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	3.8500e-003	2.5600e-003	0.0282	9.0000e-005	0.0106	7.0000e-005	0.0107	2.8300e-003	6.0000e-005	2.8900e-003	0.0000	8.4781	8.4781	1.8000e-004	0.0000	8.4826
Total	5.3400e-003	0.0519	0.0397	2.4000e-004	0.0140	2.1000e-004	0.0142	3.7700e-003	2.0000e-004	3.9600e-003	0.0000	23.4100	23.4100	8.5000e-004	0.0000	23.4313

Legacy Biosolids Lagoons Site Cleanup - Santa Clara County, Annual

3.9 2.11 Lime Treatment - 2022**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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1113	0.4822	4.1881	9.1000e-003		0.0148	0.0148		0.0148	0.0148	0.0000	798.9311	798.9311	0.2584	0.0000	805.3908
Total	0.1113	0.4822	4.1881	9.1000e-003	0.0000	0.0148	0.0148	0.0000	0.0148	0.0148	0.0000	798.9311	798.9311	0.2584	0.0000	805.3908

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	1.4900e-003	0.0494	0.0115	1.5000e-004	3.4100e-003	1.4000e-004	3.5500e-003	9.4000e-004	1.4000e-004	1.0700e-003	0.0000	14.9319	14.9319	6.7000e-004	0.0000	14.9487
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	3.8500e-003	2.5600e-003	0.0282	9.0000e-005	0.0106	7.0000e-005	0.0107	2.8300e-003	6.0000e-005	2.8900e-003	0.0000	8.4781	8.4781	1.8000e-004	0.0000	8.4826
Total	5.3400e-003	0.0519	0.0397	2.4000e-004	0.0140	2.1000e-004	0.0142	3.7700e-003	2.0000e-004	3.9600e-003	0.0000	23.4100	23.4100	8.5000e-004	0.0000	23.4313

Legacy Biosolids Lagoons Site Cleanup - Santa Clara County, Annual

3.10 2.12 Erosion Control - 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	tons/yr										MT/yr					
Fugitive Dust					2.1200e-003	0.0000	2.1200e-003	2.3000e-004	0.0000	2.3000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0127	0.0963	0.0806	3.2000e-004		3.5000e-003	3.5000e-003		3.2200e-003	3.2200e-003	0.0000	27.8466	27.8466	9.0100e-003	0.0000	28.0718
Total	0.0127	0.0963	0.0806	3.2000e-004	2.1200e-003	3.5000e-003	5.6200e-003	2.3000e-004	3.2200e-003	3.4500e-003	0.0000	27.8466	27.8466	9.0100e-003	0.0000	28.0718

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	4.6000e-004	3.1000e-004	3.3600e-003	1.0000e-005	1.2700e-003	1.0000e-005	1.2800e-003	3.4000e-004	1.0000e-005	3.4000e-004	0.0000	1.0123	1.0123	2.0000e-005	0.0000	1.0129
Total	4.6000e-004	3.1000e-004	3.3600e-003	1.0000e-005	1.2700e-003	1.0000e-005	1.2800e-003	3.4000e-004	1.0000e-005	3.4000e-004	0.0000	1.0123	1.0123	2.0000e-005	0.0000	1.0129

Legacy Biosolids Lagoons Site Cleanup - Santa Clara County, Annual

3.10 2.12 Erosion Control - 2022**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.1200e-003	0.0000	2.1200e-003	2.3000e-004	0.0000	2.3000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.8800e-003	0.0168	0.1423	3.2000e-004		5.2000e-004	5.2000e-004		5.2000e-004	5.2000e-004	0.0000	27.8466	27.8466	9.0100e-003	0.0000	28.0717
Total	3.8800e-003	0.0168	0.1423	3.2000e-004	2.1200e-003	5.2000e-004	2.6400e-003	2.3000e-004	5.2000e-004	7.5000e-004	0.0000	27.8466	27.8466	9.0100e-003	0.0000	28.0717

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	4.6000e-004	3.1000e-004	3.3600e-003	1.0000e-005	1.2700e-003	1.0000e-005	1.2800e-003	3.4000e-004	1.0000e-005	3.4000e-004	0.0000	1.0123	1.0123	2.0000e-005	0.0000	1.0129
Total	4.6000e-004	3.1000e-004	3.3600e-003	1.0000e-005	1.2700e-003	1.0000e-005	1.2800e-003	3.4000e-004	1.0000e-005	3.4000e-004	0.0000	1.0123	1.0123	2.0000e-005	0.0000	1.0129

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3.11 2.2 Earthwork - Cut (Biosolids Removal) - 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					2.4691	0.0000	2.4691	1.3572	0.0000	1.3572	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.5756	14.5525	8.7749	0.0283		0.5934	0.5934		0.5460	0.5460	0.0000	2,483.7185	2,483.7185	0.8027	0.0000	2,503.7866
Total	1.5756	14.5525	8.7749	0.0283	2.4691	0.5934	3.0624	1.3572	0.5460	1.9032	0.0000	2,483.7185	2,483.7185	0.8027	0.0000	2,503.7866

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	5.0500e-003	3.5000e-003	0.0375	1.2000e-004	0.0130	8.0000e-005	0.0131	3.4600e-003	8.0000e-005	3.5300e-003	0.0000	10.7673	10.7673	2.4000e-004	0.0000	10.7734
Total	5.0500e-003	3.5000e-003	0.0375	1.2000e-004	0.0130	8.0000e-005	0.0131	3.4600e-003	8.0000e-005	3.5300e-003	0.0000	10.7673	10.7673	2.4000e-004	0.0000	10.7734

Legacy Biosolids Lagoons Site Cleanup - Santa Clara County, Annual

3.11 2.2 Earthwork - Cut (Biosolids Removal) - 2021**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.4691	0.0000	2.4691	1.3572	0.0000	1.3572	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3472	1.5517	12.9754	0.0283		0.0461	0.0461		0.0461	0.0461	0.0000	2,483.7156	2,483.7156	0.8027	0.0000	2,503.7836
Total	0.3472	1.5517	12.9754	0.0283	2.4691	0.0461	2.5152	1.3572	0.0461	1.4033	0.0000	2,483.7156	2,483.7156	0.8027	0.0000	2,503.7836

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	5.0500e-003	3.5000e-003	0.0375	1.2000e-004	0.0130	8.0000e-005	0.0131	3.4600e-003	8.0000e-005	3.5300e-003	0.0000	10.7673	10.7673	2.4000e-004	0.0000	10.7734
Total	5.0500e-003	3.5000e-003	0.0375	1.2000e-004	0.0130	8.0000e-005	0.0131	3.4600e-003	8.0000e-005	3.5300e-003	0.0000	10.7673	10.7673	2.4000e-004	0.0000	10.7734

Legacy Biosolids Lagoons Site Cleanup - Santa Clara County, Annual

3.12 2.3 Earthwork - Cut (Biosolids Removal) - 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					1.3249	0.0000	1.3249	0.7283	0.0000	0.7283	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.8454	7.8087	4.7085	0.0152		0.3184	0.3184		0.2930	0.2930	0.0000	1,332.727 0	1,332.727 0	0.4307	0.0000	1,343.495 2
Total	0.8454	7.8087	4.7085	0.0152	1.3249	0.3184	1.6433	0.7283	0.2930	1.0212	0.0000	1,332.727 0	1,332.727 0	0.4307	0.0000	1,343.495 2

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.7100e-003	1.8800e-003	0.0201	6.0000e-005	6.9800e-003	4.0000e-005	7.0200e-003	1.8600e-003	4.0000e-005	1.9000e-003	0.0000	5.7776	5.7776	1.3000e-004	0.0000	5.7809
Total	2.7100e-003	1.8800e-003	0.0201	6.0000e-005	6.9800e-003	4.0000e-005	7.0200e-003	1.8600e-003	4.0000e-005	1.9000e-003	0.0000	5.7776	5.7776	1.3000e-004	0.0000	5.7809

Legacy Biosolids Lagoons Site Cleanup - Santa Clara County, Annual

3.12 2.3 Earthwork - Cut (Biosolids Removal) - 2021**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.3249	0.0000	1.3249	0.7283	0.0000	0.7283	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1863	0.8326	6.9624	0.0152		0.0248	0.0248		0.0248	0.0248	0.0000	1,332.725 4	1,332.725 4	0.4307	0.0000	1,343.493 6
Total	0.1863	0.8326	6.9624	0.0152	1.3249	0.0248	1.3496	0.7283	0.0248	0.7530	0.0000	1,332.725 4	1,332.725 4	0.4307	0.0000	1,343.493 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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.7100e-003	1.8800e-003	0.0201	6.0000e-005	6.9800e-003	4.0000e-005	7.0200e-003	1.8600e-003	4.0000e-005	1.9000e-003	0.0000	5.7776	5.7776	1.3000e-004	0.0000	5.7809
Total	2.7100e-003	1.8800e-003	0.0201	6.0000e-005	6.9800e-003	4.0000e-005	7.0200e-003	1.8600e-003	4.0000e-005	1.9000e-003	0.0000	5.7776	5.7776	1.3000e-004	0.0000	5.7809

Legacy Biosolids Lagoons Site Cleanup - Santa Clara County, Annual

3.13 2.4 Earthwork - Fill (Consolidation Pile) - 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					5.7812	0.0000	5.7812	3.1778	0.0000	3.1778	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0780	19.9549	10.5806	0.0314		0.8605	0.8605		0.7918	0.7918	0.0000	2,759.2625	2,759.2625	0.8911	0.0000	2,781.5396
Total	2.0780	19.9549	10.5806	0.0314	5.7812	0.8605	6.6417	3.1778	0.7918	3.9697	0.0000	2,759.2625	2,759.2625	0.8911	0.0000	2,781.5396

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	0.0118	8.1900e-003	0.0878	2.8000e-004	0.0305	1.9000e-004	0.0307	8.1000e-003	1.8000e-004	8.2800e-003	0.0000	25.2112	25.2112	5.7000e-004	0.0000	25.2255
Total	0.0118	8.1900e-003	0.0878	2.8000e-004	0.0305	1.9000e-004	0.0307	8.1000e-003	1.8000e-004	8.2800e-003	0.0000	25.2112	25.2112	5.7000e-004	0.0000	25.2255

Legacy Biosolids Lagoons Site Cleanup - Santa Clara County, Annual

3.13 2.4 Earthwork - Fill (Consolidation Pile) - 2021**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					5.7812	0.0000	5.7812	3.1778	0.0000	3.1778	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3838	1.6632	14.3780	0.0314		0.0512	0.0512		0.0512	0.0512	0.0000	2,759.259 2	2,759.259 2	0.8911	0.0000	2,781.536 3
Total	0.3838	1.6632	14.3780	0.0314	5.7812	0.0512	5.8324	3.1778	0.0512	3.2290	0.0000	2,759.259 2	2,759.259 2	0.8911	0.0000	2,781.536 3

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	0.0118	8.1900e-003	0.0878	2.8000e-004	0.0305	1.9000e-004	0.0307	8.1000e-003	1.8000e-004	8.2800e-003	0.0000	25.2112	25.2112	5.7000e-004	0.0000	25.2255
Total	0.0118	8.1900e-003	0.0878	2.8000e-004	0.0305	1.9000e-004	0.0307	8.1000e-003	1.8000e-004	8.2800e-003	0.0000	25.2112	25.2112	5.7000e-004	0.0000	25.2255

Legacy Biosolids Lagoons Site Cleanup - Santa Clara County, Annual

3.14 2.5 Earthwork - 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	tons/yr										MT/yr					
Fugitive Dust					0.4856	0.0000	0.4856	0.2519	0.0000	0.2519	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.4419	3.9433	2.8149	9.3700e-003		0.1526	0.1526		0.1404	0.1404	0.0000	822.2643	822.2643	0.2657	0.0000	828.9075
Total	0.4419	3.9433	2.8149	9.3700e-003	0.4856	0.1526	0.6382	0.2519	0.1404	0.3923	0.0000	822.2643	822.2643	0.2657	0.0000	828.9075

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7300e-003	1.1500e-003	0.0126	4.0000e-005	4.7600e-003	3.0000e-005	4.7900e-003	1.2700e-003	3.0000e-005	1.2900e-003	0.0000	3.7962	3.7962	8.0000e-005	0.0000	3.7982
Total	1.7300e-003	1.1500e-003	0.0126	4.0000e-005	4.7600e-003	3.0000e-005	4.7900e-003	1.2700e-003	3.0000e-005	1.2900e-003	0.0000	3.7962	3.7962	8.0000e-005	0.0000	3.7982

Legacy Biosolids Lagoons Site Cleanup - Santa Clara County, Annual

3.14 2.5 Earthwork - Grading - 2022**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					0.4856	0.0000	0.4856	0.2519	0.0000	0.2519	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1150	0.5156	4.3063	9.3700e-003		0.0153	0.0153		0.0153	0.0153	0.0000	822.2633	822.2633	0.2657	0.0000	828.9066
Total	0.1150	0.5156	4.3063	9.3700e-003	0.4856	0.0153	0.5009	0.2519	0.0153	0.2672	0.0000	822.2633	822.2633	0.2657	0.0000	828.9066

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7300e-003	1.1500e-003	0.0126	4.0000e-005	4.7600e-003	3.0000e-005	4.7900e-003	1.2700e-003	3.0000e-005	1.2900e-003	0.0000	3.7962	3.7962	8.0000e-005	0.0000	3.7982
Total	1.7300e-003	1.1500e-003	0.0126	4.0000e-005	4.7600e-003	3.0000e-005	4.7900e-003	1.2700e-003	3.0000e-005	1.2900e-003	0.0000	3.7962	3.7962	8.0000e-005	0.0000	3.7982

Legacy Biosolids Lagoons Site Cleanup - Santa Clara County, Annual

3.15 2.6 Earthwork - 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	tons/yr										MT/yr					
Fugitive Dust					0.5157	0.0000	0.5157	0.2685	0.0000	0.2685	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.4829	4.2993	3.0869	0.0102		0.1670	0.1670		0.1537	0.1537	0.0000	899.2196	899.2196	0.2906	0.0000	906.4847
Total	0.4829	4.2993	3.0869	0.0102	0.5157	0.1670	0.6827	0.2685	0.1537	0.4222	0.0000	899.2196	899.2196	0.2906	0.0000	906.4847

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8400e-003	1.2200e-003	0.0135	4.0000e-005	5.0800e-003	3.0000e-005	5.1100e-003	1.3500e-003	3.0000e-005	1.3800e-003	0.0000	4.0492	4.0492	9.0000e-005	0.0000	4.0514
Total	1.8400e-003	1.2200e-003	0.0135	4.0000e-005	5.0800e-003	3.0000e-005	5.1100e-003	1.3500e-003	3.0000e-005	1.3800e-003	0.0000	4.0492	4.0492	9.0000e-005	0.0000	4.0514

Legacy Biosolids Lagoons Site Cleanup - Santa Clara County, Annual

3.15 2.6 Earthwork - Grading - 2022**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					0.5157	0.0000	0.5157	0.2685	0.0000	0.2685	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1262	0.5839	4.7189	0.0102		0.0167	0.0167		0.0167	0.0167	0.0000	899.2185	899.2185	0.2906	0.0000	906.4836
Total	0.1262	0.5839	4.7189	0.0102	0.5157	0.0167	0.5324	0.2685	0.0167	0.2852	0.0000	899.2185	899.2185	0.2906	0.0000	906.4836

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8400e-003	1.2200e-003	0.0135	4.0000e-005	5.0800e-003	3.0000e-005	5.1100e-003	1.3500e-003	3.0000e-005	1.3800e-003	0.0000	4.0492	4.0492	9.0000e-005	0.0000	4.0514
Total	1.8400e-003	1.2200e-003	0.0135	4.0000e-005	5.0800e-003	3.0000e-005	5.1100e-003	1.3500e-003	3.0000e-005	1.3800e-003	0.0000	4.0492	4.0492	9.0000e-005	0.0000	4.0514

Legacy Biosolids Lagoons Site Cleanup - Santa Clara County, Annual

3.16 2.7 Earthwork - 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	tons/yr										MT/yr					
Fugitive Dust					0.7867	0.0000	0.7867	0.4174	0.0000	0.4174	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.7365	6.5722	4.6914	0.0156		0.2543	0.2543		0.2340	0.2340	0.0000	1,370.4405	1,370.4405	0.4429	0.0000	1,381.5126
Total	0.7365	6.5722	4.6914	0.0156	0.7867	0.2543	1.0410	0.4174	0.2340	0.6514	0.0000	1,370.4405	1,370.4405	0.4429	0.0000	1,381.5126

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.8800e-003	1.9100e-003	0.0210	7.0000e-005	7.9300e-003	5.0000e-005	7.9800e-003	2.1100e-003	4.0000e-005	2.1500e-003	0.0000	6.3269	6.3269	1.3000e-004	0.0000	6.3303
Total	2.8800e-003	1.9100e-003	0.0210	7.0000e-005	7.9300e-003	5.0000e-005	7.9800e-003	2.1100e-003	4.0000e-005	2.1500e-003	0.0000	6.3269	6.3269	1.3000e-004	0.0000	6.3303

Legacy Biosolids Lagoons Site Cleanup - Santa Clara County, Annual

3.16 2.7 Earthwork - Grading - 2022**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					0.7867	0.0000	0.7867	0.4174	0.0000	0.4174	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1917	0.8593	7.1771	0.0156		0.0255	0.0255		0.0255	0.0255	0.0000	1,370.4388	1,370.4388	0.4429	0.0000	1,381.5109
Total	0.1917	0.8593	7.1771	0.0156	0.7867	0.0255	0.8122	0.4174	0.0255	0.4429	0.0000	1,370.4388	1,370.4388	0.4429	0.0000	1,381.5109

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.8800e-003	1.9100e-003	0.0210	7.0000e-005	7.9300e-003	5.0000e-005	7.9800e-003	2.1100e-003	4.0000e-005	2.1500e-003	0.0000	6.3269	6.3269	1.3000e-004	0.0000	6.3303
Total	2.8800e-003	1.9100e-003	0.0210	7.0000e-005	7.9300e-003	5.0000e-005	7.9800e-003	2.1100e-003	4.0000e-005	2.1500e-003	0.0000	6.3269	6.3269	1.3000e-004	0.0000	6.3303

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3.17 2.8 Earthwork - Fill (Cap Material) - 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					1.7163	0.0000	1.7163	0.9434	0.0000	0.9434	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.6169	5.9241	3.1411	9.3300e-003		0.2555	0.2555		0.2351	0.2351	0.0000	819.1561	819.1561	0.2645	0.0000	825.7696
Total	0.6169	5.9241	3.1411	9.3300e-003	1.7163	0.2555	1.9718	0.9434	0.2351	1.1785	0.0000	819.1561	819.1561	0.2645	0.0000	825.7696

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	0.0370	1.2628	0.2752	3.6700e-003	0.0801	3.9400e-003	0.0840	0.0220	3.7700e-003	0.0258	0.0000	355.5822	355.5822	0.0161	0.0000	355.9856
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	3.5100e-003	2.4300e-003	0.0261	8.0000e-005	9.0400e-003	6.0000e-005	9.1000e-003	2.4000e-003	5.0000e-005	2.4600e-003	0.0000	7.4846	7.4846	1.7000e-004	0.0000	7.4888
Total	0.0405	1.2652	0.3013	3.7500e-003	0.0891	4.0000e-003	0.0931	0.0244	3.8200e-003	0.0282	0.0000	363.0668	363.0668	0.0163	0.0000	363.4744

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3.17 2.8 Earthwork - Fill (Cap Material) - 2021**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.7163	0.0000	1.7163	0.9434	0.0000	0.9434	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1139	0.4938	4.2685	9.3300e-003		0.0152	0.0152		0.0152	0.0152	0.0000	819.1551	819.1551	0.2645	0.0000	825.7686
Total	0.1139	0.4938	4.2685	9.3300e-003	1.7163	0.0152	1.7315	0.9434	0.0152	0.9586	0.0000	819.1551	819.1551	0.2645	0.0000	825.7686

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	0.0370	1.2628	0.2752	3.6700e-003	0.0801	3.9400e-003	0.0840	0.0220	3.7700e-003	0.0258	0.0000	355.5822	355.5822	0.0161	0.0000	355.9856
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	3.5100e-003	2.4300e-003	0.0261	8.0000e-005	9.0400e-003	6.0000e-005	9.1000e-003	2.4000e-003	5.0000e-005	2.4600e-003	0.0000	7.4846	7.4846	1.7000e-004	0.0000	7.4888
Total	0.0405	1.2652	0.3013	3.7500e-003	0.0891	4.0000e-003	0.0931	0.0244	3.8200e-003	0.0282	0.0000	363.0668	363.0668	0.0163	0.0000	363.4744

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3.18 2.9 Hand Removal - Pickleweed - 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					6.6300e-003	0.0000	6.6300e-003	7.2000e-004	0.0000	7.2000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1515	1.3158	0.9011	3.3000e-003		0.0483	0.0483		0.0444	0.0444	0.0000	289.9641	289.9641	0.0938	0.0000	292.3086
Total	0.1515	1.3158	0.9011	3.3000e-003	6.6300e-003	0.0483	0.0549	7.2000e-004	0.0444	0.0451	0.0000	289.9641	289.9641	0.0938	0.0000	292.3086

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5400e-003	1.0700e-003	0.0114	4.0000e-005	3.9700e-003	2.0000e-005	3.9900e-003	1.0500e-003	2.0000e-005	1.0800e-003	0.0000	3.2827	3.2827	7.0000e-005	0.0000	3.2846
Total	1.5400e-003	1.0700e-003	0.0114	4.0000e-005	3.9700e-003	2.0000e-005	3.9900e-003	1.0500e-003	2.0000e-005	1.0800e-003	0.0000	3.2827	3.2827	7.0000e-005	0.0000	3.2846

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3.18 2.9 Hand Removal - Pickleweed - 2021**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					6.6300e-003	0.0000	6.6300e-003	7.2000e-004	0.0000	7.2000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0404	0.1751	1.4818	3.3000e-003		5.3900e-003	5.3900e-003		5.3900e-003	5.3900e-003	0.0000	289.9638	289.9638	0.0938	0.0000	292.3083
Total	0.0404	0.1751	1.4818	3.3000e-003	6.6300e-003	5.3900e-003	0.0120	7.2000e-004	5.3900e-003	6.1100e-003	0.0000	289.9638	289.9638	0.0938	0.0000	292.3083

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5400e-003	1.0700e-003	0.0114	4.0000e-005	3.9700e-003	2.0000e-005	3.9900e-003	1.0500e-003	2.0000e-005	1.0800e-003	0.0000	3.2827	3.2827	7.0000e-005	0.0000	3.2846
Total	1.5400e-003	1.0700e-003	0.0114	4.0000e-005	3.9700e-003	2.0000e-005	3.9900e-003	1.0500e-003	2.0000e-005	1.0800e-003	0.0000	3.2827	3.2827	7.0000e-005	0.0000	3.2846

4.0 Operational Detail - Mobile

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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	tons/yr										MT/yr					
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	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	0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Industrial Park	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Industrial Park	9.50	7.30	7.30	59.00	28.00	13.00	79	19	2

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Industrial Park	0.612822	0.036208	0.182365	0.105071	0.013933	0.005011	0.012748	0.021514	0.002168	0.001529	0.005280	0.000629	0.000720

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5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	2.3777	2.3777	2.3000e-004	5.0000e-005	2.3981
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	2.3777	2.3777	2.3000e-004	5.0000e-005	2.3981
NaturalGas Mitigated	9.0000e-005	8.0000e-004	6.7000e-004	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.8736	0.8736	2.0000e-005	2.0000e-005	0.8788
NaturalGas Unmitigated	9.0000e-005	8.0000e-004	6.7000e-004	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.8736	0.8736	2.0000e-005	2.0000e-005	0.8788

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5.2 Energy by Land Use - NaturalGas**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Industrial Park	16370	9.0000e-005	8.0000e-004	6.7000e-004	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.8736	0.8736	2.0000e-005	2.0000e-005	0.8788
Total		9.0000e-005	8.0000e-004	6.7000e-004	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.8736	0.8736	2.0000e-005	2.0000e-005	0.8788

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Industrial Park	16370	9.0000e-005	8.0000e-004	6.7000e-004	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.8736	0.8736	2.0000e-005	2.0000e-005	0.8788
Total		9.0000e-005	8.0000e-004	6.7000e-004	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.8736	0.8736	2.0000e-005	2.0000e-005	0.8788

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

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Industrial Park	17830	2.3777	2.3000e-004	5.0000e-005	2.3981
Total		2.3777	2.3000e-004	5.0000e-005	2.3981

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Industrial Park	17830	2.3777	2.3000e-004	5.0000e-005	2.3981
Total		2.3777	2.3000e-004	5.0000e-005	2.3981

6.0 Area Detail**6.1 Mitigation Measures Area**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	3.9100e-003	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005
Unmitigated	3.9100e-003	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.9100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005
Total	3.9100e-003	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005

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6.2 Area by SubCategory**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.9100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005
Total	3.9100e-003	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005

7.0 Water Detail**7.1 Mitigation Measures Water**

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.2402	7.5500e-003	1.8000e-004	0.4831
Unmitigated	0.2402	7.5500e-003	1.8000e-004	0.4831

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Industrial Park	0.23125 / 0	0.2402	7.5500e-003	1.8000e-004	0.4831
Total		0.2402	7.5500e-003	1.8000e-004	0.4831

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7.2 Water by Land Use**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Industrial Park	0.23125 / 0	0.2402	7.5500e-003	1.8000e-004	0.4831
Total		0.2402	7.5500e-003	1.8000e-004	0.4831

8.0 Waste Detail**8.1 Mitigation Measures Waste****Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.2517	0.0149	0.0000	0.6236
Unmitigated	0.2517	0.0149	0.0000	0.6236

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8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Industrial Park	1.24	0.2517	0.0149	0.0000	0.6236
Total		0.2517	0.0149	0.0000	0.6236

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Industrial Park	1.24	0.2517	0.0149	0.0000	0.6236
Total		0.2517	0.0149	0.0000	0.6236

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
