APPENDIX B

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-3404-6-0 **EXPIRATION DATE:** 12/31/2019

EQUIPMENT DESCRIPTION:
2,847.5 BHP CATERPILLAR MODEL 3156B DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR

PERMIT UNIT REQUIREMENTS

1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. This engine shall be equipped with either a positive crankcase ventilation (PCV) system that recirculates crankcase emissions into the air intake system for combustion, or a crankcase emissions control device of at least 90% control efficiency. [District Rule 2201]
3. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201]
4. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101]
5. The exhaust stack shall vent vertically upward. The vertical exhaust flow shall not be impeded by a rain cap (flapper ok), roof overhang, or any other obstruction. [District Rule 4102]
6. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201 and 4801, and 17 CCR 93115]
7. This engine shall be equipped with a non-resettable hour meter with a minimum display capability of 9,999 hours, unless the District determines that a non-resettable hour meter with a different minimum display capability is appropriate in consideration of the historical use of the engine and the owner or operator's compliance history. [District Rule 4702 and 17 CCR 93115]
8. Emissions from this IC engine shall not exceed any of the following limits: 2.751 g-NOx/bhp-hr, 0.114 g-CO/bhp-hr, or 0.087 g-VOC/bhp-hr. [District Rule 2201 and 13 CCR 2423 and 17 CCR 93115]
9. Emissions from this IC engine shall not exceed 0.043 g-PM10/bhp-hr based on USEPA certification using ISO 8178 test procedure. [District Rules 2201 and 4102 and 13 CCR 2423 and 17 CCR 93115]
10. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702]
11. During periods of operation for maintenance, testing, and required regulatory purposes, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702]
12. This engine shall be operated only for testing and maintenance of the engine, required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 50 hours per calendar year. [District Rule 4702 and 17 CCR 93115]
13. An emergency situation is an unscheduled electrical power outage caused by sudden and reasonably unforeseen natural disasters or sudden and reasonably unforeseen events beyond the control of the permittee. [District Rule 4702]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

14. This engine shall not be used to produce power for the electrical distribution system, as part of a voluntary utility demand reduction program, or for an interruptible power contract. [District Rule 4702]

15. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.) and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702 and 17 CCR 93115]

16. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rule 4702 and 17 CCR 93115]

White Slough Water Pollution Control Facility Expansion Pond Project

San Joaquin Valley Unified APCD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	0.00	User Defined Unit	70.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.7	**Precipitation Freq (Days)**	45
Climate Zone	2			**Operational Year**	2018
Utility Company	Statewide Average				
CO2 Intensity (lb/MWhr)	1001.57	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - The expansion pond will be 70 acres. Per phone conversation with Georgia Stewart, Air Quality Specialist with SJVAPCD on October 26, 2015, we were advised to use User Defined Industrial and define fields, based on the lack of agricultural land use subtype.

Construction Phase - There is an estimated 7 months for the project; 5 months for the Excavation/Earth Works phase and 2 months for the the Shotcrete/Irrigation/Pump Station Phase.

Off-road Equipment - Per West Yost's Preliminary Tech Memo (2016), total equipment hours are estimated at 8,150 for entire project. In the model, we have a conservative estimate of 12,426 total equipment hours, with the Excavation/Earth Works phase consisting of 12,426 hours.

Off-road Equipment - The other equipment consists of (1) boom trucks and (2) concrete trucks to supply the boom trucks.

Grading - Material exported based on 6 inches of topsoil removed over 70 acres. The riprap imported is estimated at 30 tons.

Trips and VMT - Based on the West Yost Tech Memo estimate of 11 workers/day.

On-road Fugitive Dust - There is a mix of gravel, paved, and dirt roads at the site.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	1,110.00	44.00
tblConstructionPhase	NumDays	110.00	109.00
tblGrading	AcresOfGrading	81.75	70.00
tblGrading	MaterialExported	0.00	45.00
tblGrading	MaterialImported	0.00	30.00
tblLandUse	LotAcreage	0.00	70.00
tblOffRoadEquipment	OffRoadEquipmentType		Graders
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	6.00
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tblOffRoadEquipment	PhaseName		Excavation/Earth Works
tblOffRoadEquipment	PhaseName		Shotcrete/Irrigation/Pump Station
tblOffRoadEquipment	PhaseName		Shotcrete/Irrigation/Pump Station
tblOffRoadEquipment	PhaseName		Excavation/Earth Works
tblOffRoadEquipment	PhaseName		Excavation/Earth Works
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOnRoadDust	HaulingPercentPave	100.00	50.00
tblOnRoadDust	HaulingPercentPave	100.00	50.00
tblOnRoadDust	VendorPercentPave	100.00	80.00
tblOnRoadDust	VendorPercentPave	100.00	80.00

tblOnRoadDust	WorkerPercentPave	100.00	50.00
tblOnRoadDust	WorkerPercentPave	100.00	50.00
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tblTripsAndVMT	VendorTripNumber	0.00	5.00
tblTripsAndVMT	VendorTripNumber	0.00	5.00
tblTripsAndVMT	WorkerTripLength	10.80	16.80
tblTripsAndVMT	WorkerTripLength	10.80	16.80
tblTripsAndVMT	WorkerTripNumber	45.00	11.00
tblTripsAndVMT	WorkerTripNumber	0.00	11.00
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tblVehicleEF	LDT2	3.4010e-003	3.3120e-003
tblVehicleEF	LDT2	1.6530e-003	1.7370e-003
tblVehicleEF	LDT2	3.1430e-003	3.0330e-003
tblVehicleEF	LDT2	0.08	0.10
tblVehicleEF	LDT2	0.15	0.18
tblVehicleEF	LDT2	0.06	0.07

tblVehicleEF	LDT2	0.03	0.04
tblVehicleEF	LDT2	0.49	0.58
tblVehicleEF	LDT2	0.21	0.28
tblVehicleEF	LDT2	4.7450e-003	4.7400e-003
tblVehicleEF	LDT2	1.0550e-003	1.0700e-003
tblVehicleEF	LDT2	0.08	0.10
tblVehicleEF	LDT2	0.15	0.18
tblVehicleEF	LDT2	0.06	0.07
tblVehicleEF	LDT2	0.04	0.06
tblVehicleEF	LDT2	0.49	0.58
tblVehicleEF	LDT2	0.22	0.30
tblVehicleEF	LDT2	0.01	0.02
tblVehicleEF	LDT2	0.01	0.02
tblVehicleEF	LDT2	1.53	1.96
tblVehicleEF	LDT2	2.17	2.80
tblVehicleEF	LDT2	413.16	442.02
tblVehicleEF	LDT2	82.06	87.93
tblVehicleEF	LDT2	0.16	0.16
tblVehicleEF	LDT2	0.14	0.19
tblVehicleEF	LDT2	0.23	0.30
tblVehicleEF	LDT2	1.7900e-003	1.8990e-003
tblVehicleEF	LDT2	3.4010e-003	3.3120e-003
tblVehicleEF	LDT2	1.6530e-003	1.7370e-003
tblVehicleEF	LDT2	3.1430e-003	3.0330e-003
tblVehicleEF	LDT2	0.21	0.25
tblVehicleEF	LDT2	0.19	0.22
tblVehicleEF	LDT2	0.14	0.16
tblVehicleEF	LDT2	0.03	0.05

tblVehicleEF	LDT2	0.47	0.56
tblVehicleEF	LDT2	0.17	0.23
tblVehicleEF	LDT2	5.2150e-003	5.2090e-003
tblVehicleEF	LDT2	1.0420e-003	1.0540e-003
tblVehicleEF	LDT2	0.21	0.25
tblVehicleEF	LDT2	0.19	0.22
tblVehicleEF	LDT2	0.14	0.16
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.47	0.56
tblVehicleEF	LDT2	0.18	0.24
tblVehicleEF	LDT2	0.01	0.02
tblVehicleEF	LDT2	0.01	0.02
tblVehicleEF	LDT2	1.17	1.54
tblVehicleEF	LDT2	3.80	4.82
tblVehicleEF	LDT2	362.49	387.98
tblVehicleEF	LDT2	82.06	87.93
tblVehicleEF	LDT2	0.16	0.16
tblVehicleEF	LDT2	0.17	0.22
tblVehicleEF	LDT2	0.27	0.36
tblVehicleEF	LDT2	1.7900e-003	1.8990e-003
tblVehicleEF	LDT2	3.4010e-003	3.3120e-003
tblVehicleEF	LDT2	1.6530e-003	1.7370e-003
tblVehicleEF	LDT2	3.1430e-003	3.0330e-003
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.15	0.18
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.03	0.04
tblVehicleEF	LDT2	0.58	0.69

tblVehicleEF	LDT2	0.26	0.35
tblVehicleEF	LDT2	4.5690e-003	4.5650e-003
tblVehicleEF	LDT2	1.0710e-003	1.0890e-003
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.15	0.18
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.04	0.06
tblVehicleEF	LDT2	0.58	0.69
tblVehicleEF	LDT2	0.28	0.37
tblVehicleEF	LHD1	1.1090e-003	1.1180e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.16	0.16
tblVehicleEF	LHD1	1.70	2.05
tblVehicleEF	LHD1	3.94	4.40
tblVehicleEF	LHD1	8.52	8.79
tblVehicleEF	LHD1	731.30	755.19
tblVehicleEF	LHD1	34.25	35.16
tblVehicleEF	LHD1	0.05	0.05
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	1.53	1.79
tblVehicleEF	LHD1	1.09	1.14
tblVehicleEF	LHD1	8.4900e-004	8.6200e-004
tblVehicleEF	LHD1	0.05	0.05
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	8.8100e-004	1.0550e-003
tblVehicleEF	LHD1	7.8100e-004	7.9300e-004
tblVehicleEF	LHD1	0.02	0.02

tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	8.0900e-004	9.6500e-004
tblVehicleEF	LHD1	2.8250e-003	3.0140e-003
tblVehicleEF	LHD1	0.07	0.07
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	1.2130e-003	1.2530e-003
tblVehicleEF	LHD1	0.17	0.21
tblVehicleEF	LHD1	0.41	0.42
tblVehicleEF	LHD1	0.33	0.38
tblVehicleEF	LHD1	7.7350e-003	7.7460e-003
tblVehicleEF	LHD1	4.3800e-004	4.4500e-004
tblVehicleEF	LHD1	2.8250e-003	3.0140e-003
tblVehicleEF	LHD1	0.07	0.07
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	1.2130e-003	1.2530e-003
tblVehicleEF	LHD1	0.20	0.24
tblVehicleEF	LHD1	0.41	0.42
tblVehicleEF	LHD1	0.36	0.40
tblVehicleEF	LHD1	1.1090e-003	1.1180e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.16	0.16
tblVehicleEF	LHD1	1.75	2.11
tblVehicleEF	LHD1	2.85	3.18
tblVehicleEF	LHD1	8.52	8.79
tblVehicleEF	LHD1	731.30	755.19
tblVehicleEF	LHD1	34.25	35.16
tblVehicleEF	LHD1	0.05	0.05

tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	1.44	1.69
tblVehicleEF	LHD1	1.03	1.07
tblVehicleEF	LHD1	8.4900e-004	8.6200e-004
tblVehicleEF	LHD1	0.05	0.05
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	8.8100e-004	1.0550e-003
tblVehicleEF	LHD1	7.8100e-004	7.9300e-004
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	8.0900e-004	9.6500e-004
tblVehicleEF	LHD1	6.8830e-003	7.4090e-003
tblVehicleEF	LHD1	0.08	0.09
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.6920e-003	2.8500e-003
tblVehicleEF	LHD1	0.18	0.21
tblVehicleEF	LHD1	0.41	0.42
tblVehicleEF	LHD1	0.28	0.31
tblVehicleEF	LHD1	7.7360e-003	7.7470e-003
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tblVehicleEF	LHD1	6.8830e-003	7.4090e-003
tblVehicleEF	LHD1	0.08	0.09
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.6920e-003	2.8500e-003
tblVehicleEF	LHD1	0.20	0.24
tblVehicleEF	LHD1	0.41	0.42
tblVehicleEF	LHD1	0.30	0.33
tblVehicleEF	LHD1	1.1090e-003	1.1180e-003

tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.16	0.16
tblVehicleEF	LHD1	1.67	2.02
tblVehicleEF	LHD1	5.25	5.87
tblVehicleEF	LHD1	8.52	8.79
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tblVehicleEF	LHD1	34.25	35.16
tblVehicleEF	LHD1	0.05	0.05
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	1.57	1.84
tblVehicleEF	LHD1	1.15	1.21
tblVehicleEF	LHD1	8.4900e-004	8.6200e-004
tblVehicleEF	LHD1	0.05	0.05
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	8.8100e-004	1.0550e-003
tblVehicleEF	LHD1	7.8100e-004	7.9300e-004
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	8.0900e-004	9.6500e-004
tblVehicleEF	LHD1	8.7900e-004	9.1300e-004
tblVehicleEF	LHD1	0.07	0.07
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	4.7800e-004	4.7700e-004
tblVehicleEF	LHD1	0.17	0.20
tblVehicleEF	LHD1	0.45	0.47
tblVehicleEF	LHD1	0.40	0.45
tblVehicleEF	LHD1	7.7350e-003	7.7450e-003

tblVehicleEF	LHD1	4.6100e-004	4.7000e-004
tblVehicleEF	LHD1	8.7900e-004	9.1300e-004
tblVehicleEF	LHD1	0.07	0.07
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	4.7800e-004	4.7700e-004
tblVehicleEF	LHD1	0.20	0.23
tblVehicleEF	LHD1	0.45	0.47
tblVehicleEF	LHD1	0.43	0.48
tblVehicleEF	LHD2	8.1500e-004	8.2100e-004
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	9.3220e-003	0.01
tblVehicleEF	LHD2	0.13	0.13
tblVehicleEF	LHD2	1.12	1.42
tblVehicleEF	LHD2	1.89	2.23
tblVehicleEF	LHD2	9.37	9.67
tblVehicleEF	LHD2	623.75	643.94
tblVehicleEF	LHD2	19.98	20.77
tblVehicleEF	LHD2	7.8310e-003	7.8950e-003
tblVehicleEF	LHD2	0.13	0.13
tblVehicleEF	LHD2	2.10	2.46
tblVehicleEF	LHD2	0.60	0.63
tblVehicleEF	LHD2	1.4230e-003	1.4370e-003
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	3.9100e-004	5.7400e-004
tblVehicleEF	LHD2	1.3090e-003	1.3220e-003
tblVehicleEF	LHD2	0.03	0.03

tblVehicleEF	LHD2	2.6740e-003	2.6750e-003
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	3.5800e-004	5.1000e-004
tblVehicleEF	LHD2	1.3040e-003	1.5000e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	5.8100e-004	6.3600e-004
tblVehicleEF	LHD2	0.15	0.18
tblVehicleEF	LHD2	0.19	0.21
tblVehicleEF	LHD2	0.16	0.20
tblVehicleEF	LHD2	6.5140e-003	6.5200e-003
tblVehicleEF	LHD2	2.4800e-004	2.5600e-004
tblVehicleEF	LHD2	1.3040e-003	1.5000e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	5.8100e-004	6.3600e-004
tblVehicleEF	LHD2	0.17	0.21
tblVehicleEF	LHD2	0.19	0.21
tblVehicleEF	LHD2	0.18	0.21
tblVehicleEF	LHD2	8.1500e-004	8.2100e-004
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	9.3220e-003	0.01
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tblVehicleEF	LHD2	1.38	1.66
tblVehicleEF	LHD2	9.37	9.67
tblVehicleEF	LHD2	623.75	643.94
tblVehicleEF	LHD2	19.98	20.77

tblVehicleEF	LHD2	7.8310e-003	7.8950e-003
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tblVehicleEF	LHD2	1.99	2.34
tblVehicleEF	LHD2	0.56	0.59
tblVehicleEF	LHD2	1.4230e-003	1.4370e-003
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	3.9100e-004	5.7400e-004
tblVehicleEF	LHD2	1.3090e-003	1.3220e-003
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	2.6740e-003	2.6750e-003
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	3.5800e-004	5.1000e-004
tblVehicleEF	LHD2	3.1620e-003	3.6920e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.2820e-003	1.4500e-003
tblVehicleEF	LHD2	0.15	0.18
tblVehicleEF	LHD2	0.19	0.21
tblVehicleEF	LHD2	0.14	0.17
tblVehicleEF	LHD2	6.5140e-003	6.5200e-003
tblVehicleEF	LHD2	2.3900e-004	2.4600e-004
tblVehicleEF	LHD2	3.1620e-003	3.6920e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.2820e-003	1.4500e-003
tblVehicleEF	LHD2	0.17	0.21

tblVehicleEF	LHD2	0.19	0.21
tblVehicleEF	LHD2	0.15	0.18
tblVehicleEF	LHD2	8.1500e-004	8.2100e-004
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	9.3220e-003	0.01
tblVehicleEF	LHD2	0.13	0.13
tblVehicleEF	LHD2	1.11	1.42
tblVehicleEF	LHD2	2.49	2.92
tblVehicleEF	LHD2	9.37	9.67
tblVehicleEF	LHD2	623.75	643.94
tblVehicleEF	LHD2	19.98	20.77
tblVehicleEF	LHD2	7.8310e-003	7.8950e-003
tblVehicleEF	LHD2	0.13	0.13
tblVehicleEF	LHD2	2.14	2.51
tblVehicleEF	LHD2	0.63	0.67
tblVehicleEF	LHD2	1.4230e-003	1.4370e-003
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	3.9100e-004	5.7400e-004
tblVehicleEF	LHD2	1.3090e-003	1.3220e-003
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	2.6740e-003	2.6750e-003
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	3.5800e-004	5.1000e-004
tblVehicleEF	LHD2	4.1400e-004	4.5600e-004
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.02	0.02

tblVehicleEF	LHD2	2.3100e-004	2.4100e-004
tblVehicleEF	LHD2	0.15	0.18
tblVehicleEF	LHD2	0.21	0.23
tblVehicleEF	LHD2	0.20	0.24
tblVehicleEF	LHD2	6.5140e-003	6.5200e-003
tblVehicleEF	LHD2	2.5900e-004	2.6800e-004
tblVehicleEF	LHD2	4.1400e-004	4.5600e-004
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	2.3100e-004	2.4100e-004
tblVehicleEF	LHD2	0.17	0.20
tblVehicleEF	LHD2	0.21	0.23
tblVehicleEF	LHD2	0.21	0.25
tblVehicleEF	MCY	30.35	33.12
tblVehicleEF	MCY	10.55	10.43
tblVehicleEF	MCY	156.67	157.68
tblVehicleEF	MCY	40.96	43.68
tblVehicleEF	MCY	6.4350e-003	6.4480e-003
tblVehicleEF	MCY	1.27	1.29
tblVehicleEF	MCY	0.31	0.31
tblVehicleEF	MCY	0.04	0.04
tblVehicleEF	MCY	4.7000e-004	6.2500e-004
tblVehicleEF	MCY	1.2460e-003	1.6500e-003
tblVehicleEF	MCY	3.8800e-004	5.0800e-004
tblVehicleEF	MCY	1.0130e-003	1.3150e-003
tblVehicleEF	MCY	1.14	1.16
tblVehicleEF	MCY	0.48	0.51
tblVehicleEF	MCY	0.59	0.60

tblVehicleEF	MCY	2.96	3.07
tblVehicleEF	MCY	1.44	1.62
tblVehicleEF	MCY	2.19	2.23
tblVehicleEF	MCY	2.2450e-003	2.2500e-003
tblVehicleEF	MCY	6.7300e-004	6.8700e-004
tblVehicleEF	MCY	1.14	1.16
tblVehicleEF	MCY	0.48	0.51
tblVehicleEF	MCY	0.59	0.60
tblVehicleEF	MCY	3.23	3.34
tblVehicleEF	MCY	1.44	1.62
tblVehicleEF	MCY	2.36	2.40
tblVehicleEF	MCY	30.70	33.49
tblVehicleEF	MCY	8.96	8.96
tblVehicleEF	MCY	156.67	157.68
tblVehicleEF	MCY	40.96	43.68
tblVehicleEF	MCY	6.4350e-003	6.4480e-003
tblVehicleEF	MCY	1.10	1.12
tblVehicleEF	MCY	0.29	0.29
tblVehicleEF	MCY	0.04	0.04
tblVehicleEF	MCY	4.7000e-004	6.2500e-004
tblVehicleEF	MCY	1.2460e-003	1.6500e-003
tblVehicleEF	MCY	3.8800e-004	5.0800e-004
tblVehicleEF	MCY	1.0130e-003	1.3150e-003
tblVehicleEF	MCY	2.95	3.01
tblVehicleEF	MCY	0.80	0.83
tblVehicleEF	MCY	1.66	1.69
tblVehicleEF	MCY	2.90	2.99
tblVehicleEF	MCY	1.39	1.57

tblVehicleEF	MCY	1.84	1.87
tblVehicleEF	MCY	2.2480e-003	2.2530e-003
tblVehicleEF	MCY	6.3700e-004	6.5200e-004
tblVehicleEF	MCY	2.95	3.01
tblVehicleEF	MCY	0.80	0.83
tblVehicleEF	MCY	1.66	1.69
tblVehicleEF	MCY	3.16	3.26
tblVehicleEF	MCY	1.39	1.57
tblVehicleEF	MCY	1.98	2.01
tblVehicleEF	MCY	32.96	36.06
tblVehicleEF	MCY	12.73	12.50
tblVehicleEF	MCY	156.67	157.68
tblVehicleEF	MCY	40.96	43.68
tblVehicleEF	MCY	6.4350e-003	6.4480e-003
tblVehicleEF	MCY	1.38	1.40
tblVehicleEF	MCY	0.34	0.34
tblVehicleEF	MCY	0.04	0.04
tblVehicleEF	MCY	4.7000e-004	6.2500e-004
tblVehicleEF	MCY	1.2460e-003	1.6500e-003
tblVehicleEF	MCY	3.8800e-004	5.0800e-004
tblVehicleEF	MCY	1.0130e-003	1.3150e-003
tblVehicleEF	MCY	0.28	0.28
tblVehicleEF	MCY	0.47	0.52
tblVehicleEF	MCY	0.12	0.13
tblVehicleEF	MCY	3.11	3.23
tblVehicleEF	MCY	1.74	1.94
tblVehicleEF	MCY	2.64	2.70
tblVehicleEF	MCY	2.2900e-003	2.3010e-003

tblVehicleEF	MCY	7.2100e-004	7.3400e-004
tblVehicleEF	MCY	0.28	0.28
tblVehicleEF	MCY	0.47	0.52
tblVehicleEF	MCY	0.12	0.13
tblVehicleEF	MCY	3.38	3.52
tblVehicleEF	MCY	1.74	1.94
tblVehicleEF	MCY	2.84	2.90
tblVehicleEF	MDV	0.02	0.03
tblVehicleEF	MDV	0.02	0.03
tblVehicleEF	MDV	2.08	2.43
tblVehicleEF	MDV	5.02	5.82
tblVehicleEF	MDV	502.37	533.62
tblVehicleEF	MDV	108.07	114.34
tblVehicleEF	MDV	0.18	0.18
tblVehicleEF	MDV	0.30	0.35
tblVehicleEF	MDV	0.46	0.55
tblVehicleEF	MDV	2.1120e-003	2.1870e-003
tblVehicleEF	MDV	3.7450e-003	3.6780e-003
tblVehicleEF	MDV	1.9460e-003	2.0110e-003
tblVehicleEF	MDV	3.4590e-003	3.3900e-003
tblVehicleEF	MDV	0.11	0.11
tblVehicleEF	MDV	0.21	0.22
tblVehicleEF	MDV	0.08	0.08
tblVehicleEF	MDV	0.06	0.07
tblVehicleEF	MDV	0.67	0.69
tblVehicleEF	MDV	0.42	0.50
tblVehicleEF	MDV	6.0540e-003	6.0340e-003
tblVehicleEF	MDV	1.3580e-003	1.3670e-003

tblVehicleEF	MDV	0.11	0.11
tblVehicleEF	MDV	0.21	0.22
tblVehicleEF	MDV	0.08	0.08
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.67	0.69
tblVehicleEF	MDV	0.45	0.54
tblVehicleEF	MDV	0.02	0.03
tblVehicleEF	MDV	0.02	0.03
tblVehicleEF	MDV	2.54	2.95
tblVehicleEF	MDV	3.77	4.38
tblVehicleEF	MDV	551.11	585.15
tblVehicleEF	MDV	108.07	114.34
tblVehicleEF	MDV	0.18	0.18
tblVehicleEF	MDV	0.27	0.33
tblVehicleEF	MDV	0.43	0.50
tblVehicleEF	MDV	2.1120e-003	2.1870e-003
tblVehicleEF	MDV	3.7450e-003	3.6780e-003
tblVehicleEF	MDV	1.9460e-003	2.0110e-003
tblVehicleEF	MDV	3.4590e-003	3.3900e-003
tblVehicleEF	MDV	0.27	0.28
tblVehicleEF	MDV	0.26	0.27
tblVehicleEF	MDV	0.18	0.18
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.65	0.68
tblVehicleEF	MDV	0.34	0.41
tblVehicleEF	MDV	6.6490e-003	6.6240e-003
tblVehicleEF	MDV	1.3360e-003	1.3410e-003
tblVehicleEF	MDV	0.27	0.28

tblVehicleEF	MDV	0.26	0.27
tblVehicleEF	MDV	0.18	0.18
tblVehicleEF	MDV	0.09	0.11
tblVehicleEF	MDV	0.65	0.68
tblVehicleEF	MDV	0.37	0.43
tblVehicleEF	MDV	0.02	0.03
tblVehicleEF	MDV	0.02	0.03
tblVehicleEF	MDV	1.97	2.30
tblVehicleEF	MDV	6.53	7.58
tblVehicleEF	MDV	484.04	514.23
tblVehicleEF	MDV	108.07	114.34
tblVehicleEF	MDV	0.18	0.18
tblVehicleEF	MDV	0.32	0.39
tblVehicleEF	MDV	0.51	0.60
tblVehicleEF	MDV	2.1120e-003	2.1870e-003
tblVehicleEF	MDV	3.7450e-003	3.6780e-003
tblVehicleEF	MDV	1.9460e-003	2.0110e-003
tblVehicleEF	MDV	3.4590e-003	3.3900e-003
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	0.21	0.22
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	0.05	0.07
tblVehicleEF	MDV	0.80	0.83
tblVehicleEF	MDV	0.52	0.62
tblVehicleEF	MDV	5.8310e-003	5.8130e-003
tblVehicleEF	MDV	1.3850e-003	1.3980e-003
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	0.21	0.22

tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	0.08	0.09
tblVehicleEF	MDV	0.80	0.83
tblVehicleEF	MDV	0.56	0.66
tblVehicleEF	MH	2.94	4.66
tblVehicleEF	MH	7.91	9.61
tblVehicleEF	MH	728.18	752.11
tblVehicleEF	MH	28.19	29.98
tblVehicleEF	MH	2.3020e-003	2.3100e-003
tblVehicleEF	MH	1.83	2.09
tblVehicleEF	MH	0.79	0.89
tblVehicleEF	MH	0.05	0.05
tblVehicleEF	MH	8.7200e-003	8.7270e-003
tblVehicleEF	MH	0.03	0.04
tblVehicleEF	MH	9.5600e-004	1.4530e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	2.1800e-003	2.1820e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	8.6400e-004	1.2790e-003
tblVehicleEF	MH	1.32	1.55
tblVehicleEF	MH	0.08	0.09
tblVehicleEF	MH	0.36	0.41
tblVehicleEF	MH	0.14	0.19
tblVehicleEF	MH	1.90	2.11
tblVehicleEF	MH	0.44	0.56
tblVehicleEF	MH	7.7270e-003	7.7610e-003
tblVehicleEF	MH	4.3900e-004	4.7900e-004
tblVehicleEF	MH	1.32	1.55

tblVehicleEF	MH	0.08	0.09
tblVehicleEF	MH	0.36	0.41
tblVehicleEF	MH	0.17	0.23
tblVehicleEF	MH	1.90	2.11
tblVehicleEF	MH	0.47	0.60
tblVehicleEF	MH	3.05	4.82
tblVehicleEF	MH	5.60	6.82
tblVehicleEF	MH	728.18	752.11
tblVehicleEF	MH	28.19	29.98
tblVehicleEF	MH	2.3020e-003	2.3100e-003
tblVehicleEF	MH	1.69	1.93
tblVehicleEF	MH	0.75	0.84
tblVehicleEF	MH	0.05	0.05
tblVehicleEF	MH	8.7200e-003	8.7270e-003
tblVehicleEF	MH	0.03	0.04
tblVehicleEF	MH	9.5600e-004	1.4530e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	2.1800e-003	2.1820e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	8.6400e-004	1.2790e-003
tblVehicleEF	MH	3.21	3.82
tblVehicleEF	MH	0.09	0.11
tblVehicleEF	MH	0.76	0.90
tblVehicleEF	MH	0.14	0.20
tblVehicleEF	MH	1.87	2.09
tblVehicleEF	MH	0.35	0.44
tblVehicleEF	MH	7.7290e-003	7.7640e-003
tblVehicleEF	MH	4.0000e-004	4.3100e-004

tblVehicleEF	MH	3.21	3.82
tblVehicleEF	MH	0.09	0.11
tblVehicleEF	MH	0.76	0.90
tblVehicleEF	MH	0.17	0.24
tblVehicleEF	MH	1.87	2.09
tblVehicleEF	MH	0.37	0.47
tblVehicleEF	MH	2.87	4.61
tblVehicleEF	MH	10.73	13.04
tblVehicleEF	MH	728.18	752.11
tblVehicleEF	MH	28.19	29.98
tblVehicleEF	MH	2.3020e-003	2.3100e-003
tblVehicleEF	MH	1.90	2.18
tblVehicleEF	MH	0.84	0.95
tblVehicleEF	MH	0.05	0.05
tblVehicleEF	MH	8.7200e-003	8.7270e-003
tblVehicleEF	MH	0.03	0.04
tblVehicleEF	MH	9.5600e-004	1.4530e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	2.1800e-003	2.1820e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	8.6400e-004	1.2790e-003
tblVehicleEF	MH	0.40	0.46
tblVehicleEF	MH	0.09	0.11
tblVehicleEF	MH	0.17	0.19
tblVehicleEF	MH	0.13	0.19
tblVehicleEF	MH	2.03	2.26
tblVehicleEF	MH	0.54	0.70
tblVehicleEF	MH	7.7260e-003	7.7600e-003

tblVehicleEF	MH	4.8600e-004	5.3700e-004
tblVehicleEF	MH	0.40	0.46
tblVehicleEF	MH	0.09	0.11
tblVehicleEF	MH	0.17	0.19
tblVehicleEF	MH	0.16	0.23
tblVehicleEF	MH	2.03	2.26
tblVehicleEF	MH	0.58	0.75
tblVehicleEF	MHD	8.7370e-003	9.6310e-003
tblVehicleEF	MHD	7.5890e-003	9.3760e-003
tblVehicleEF	MHD	1.94	2.00
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tblVehicleEF	MHD	1,039.17	1,075.26
tblVehicleEF	MHD	55.94	63.70
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	6.07	6.89
tblVehicleEF	MHD	3.27	4.31
tblVehicleEF	MHD	1.70	1.95
tblVehicleEF	MHD	0.03	0.04
tblVehicleEF	MHD	0.12	0.12
tblVehicleEF	MHD	0.08	0.11
tblVehicleEF	MHD	3.2560e-003	5.4710e-003
tblVehicleEF	MHD	0.03	0.04
tblVehicleEF	MHD	0.05	0.05
tblVehicleEF	MHD	0.07	0.10
tblVehicleEF	MHD	2.7580e-003	4.4910e-003
tblVehicleEF	MHD	4.1470e-003	5.5870e-003

tblVehicleEF	MHD	0.14	0.21
tblVehicleEF	MHD	0.19	0.21
tblVehicleEF	MHD	1.8390e-003	2.3990e-003
tblVehicleEF	MHD	0.19	0.25
tblVehicleEF	MHD	0.54	0.76
tblVehicleEF	MHD	1.30	1.81
tblVehicleEF	MHD	5.9690e-003	5.9090e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	9.4800e-004	1.1020e-003
tblVehicleEF	MHD	4.1470e-003	5.5870e-003
tblVehicleEF	MHD	0.14	0.21
tblVehicleEF	MHD	0.21	0.24
tblVehicleEF	MHD	1.8390e-003	2.3990e-003
tblVehicleEF	MHD	0.22	0.28
tblVehicleEF	MHD	0.54	0.76
tblVehicleEF	MHD	1.39	1.94
tblVehicleEF	MHD	8.2340e-003	9.0760e-003
tblVehicleEF	MHD	7.5890e-003	9.3760e-003
tblVehicleEF	MHD	1.41	1.45
tblVehicleEF	MHD	1.06	1.48
tblVehicleEF	MHD	14.63	18.85
tblVehicleEF	MHD	619.73	633.23
tblVehicleEF	MHD	1,039.17	1,075.26
tblVehicleEF	MHD	55.94	63.70
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	6.26	7.11
tblVehicleEF	MHD	3.10	4.08
tblVehicleEF	MHD	1.60	1.84

tblVehicleEF	MHD	0.03	0.04
tblVehicleEF	MHD	0.12	0.12
tblVehicleEF	MHD	0.08	0.11
tblVehicleEF	MHD	3.2560e-003	5.4710e-003
tblVehicleEF	MHD	0.02	0.03
tblVehicleEF	MHD	0.05	0.05
tblVehicleEF	MHD	0.07	0.10
tblVehicleEF	MHD	2.7580e-003	4.4910e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	0.17	0.26
tblVehicleEF	MHD	0.18	0.20
tblVehicleEF	MHD	4.3340e-003	5.7920e-003
tblVehicleEF	MHD	0.19	0.25
tblVehicleEF	MHD	0.54	0.77
tblVehicleEF	MHD	1.05	1.45
tblVehicleEF	MHD	6.3240e-003	6.2600e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	8.6000e-004	1.0010e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	0.17	0.26
tblVehicleEF	MHD	0.20	0.22
tblVehicleEF	MHD	4.3340e-003	5.7920e-003
tblVehicleEF	MHD	0.22	0.28
tblVehicleEF	MHD	0.54	0.77
tblVehicleEF	MHD	1.12	1.55
tblVehicleEF	MHD	9.4320e-003	0.01
tblVehicleEF	MHD	7.5890e-003	9.3760e-003
tblVehicleEF	MHD	2.67	2.75

tblVehicleEF	MHD	1.04	1.48
tblVehicleEF	MHD	26.09	31.96
tblVehicleEF	MHD	536.98	548.68
tblVehicleEF	MHD	1,039.17	1,075.26
tblVehicleEF	MHD	55.94	63.70
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	5.80	6.59
tblVehicleEF	MHD	3.33	4.39
tblVehicleEF	MHD	1.81	2.08
tblVehicleEF	MHD	0.04	0.05
tblVehicleEF	MHD	0.12	0.12
tblVehicleEF	MHD	0.08	0.11
tblVehicleEF	MHD	3.2560e-003	5.4710e-003
tblVehicleEF	MHD	0.03	0.05
tblVehicleEF	MHD	0.05	0.05
tblVehicleEF	MHD	0.07	0.10
tblVehicleEF	MHD	2.7580e-003	4.4910e-003
tblVehicleEF	MHD	1.1680e-003	1.5070e-003
tblVehicleEF	MHD	0.15	0.25
tblVehicleEF	MHD	0.20	0.22
tblVehicleEF	MHD	6.4600e-004	8.0000e-004
tblVehicleEF	MHD	0.19	0.24
tblVehicleEF	MHD	0.58	0.82
tblVehicleEF	MHD	1.61	2.27
tblVehicleEF	MHD	5.4790e-003	5.4250e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	1.0580e-003	1.2330e-003
tblVehicleEF	MHD	1.1680e-003	1.5070e-003

tblVehicleEF	MHD	0.15	0.25
tblVehicleEF	MHD	0.23	0.25
tblVehicleEF	MHD	6.4600e-004	8.0000e-004
tblVehicleEF	MHD	0.22	0.28
tblVehicleEF	MHD	0.58	0.82
tblVehicleEF	MHD	1.73	2.43
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	2.7200e-003	2.9780e-003
tblVehicleEF	OBUS	2.48	2.36
tblVehicleEF	OBUS	1.82	2.34
tblVehicleEF	OBUS	13.26	15.03
tblVehicleEF	OBUS	554.85	571.35
tblVehicleEF	OBUS	1,050.92	1,083.72
tblVehicleEF	OBUS	34.54	36.27
tblVehicleEF	OBUS	1.7870e-003	1.8030e-003
tblVehicleEF	OBUS	5.30	5.94
tblVehicleEF	OBUS	3.19	4.15
tblVehicleEF	OBUS	1.75	1.96
tblVehicleEF	OBUS	0.01	0.02
tblVehicleEF	OBUS	0.09	0.09
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	9.5900e-004	1.2800e-003
tblVehicleEF	OBUS	9.4330e-003	0.02
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	2.5640e-003	2.5570e-003
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	8.6000e-004	1.1250e-003

tblVehicleEF	OBUS	1.2260e-003	1.3160e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.42	0.41
tblVehicleEF	OBUS	4.2500e-004	4.4300e-004
tblVehicleEF	OBUS	0.18	0.22
tblVehicleEF	OBUS	0.29	0.30
tblVehicleEF	OBUS	0.79	0.91
tblVehicleEF	OBUS	5.6610e-003	5.6490e-003
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	6.0200e-004	6.4000e-004
tblVehicleEF	OBUS	1.2260e-003	1.3160e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.48	0.47
tblVehicleEF	OBUS	4.2500e-004	4.4300e-004
tblVehicleEF	OBUS	0.21	0.26
tblVehicleEF	OBUS	0.29	0.30
tblVehicleEF	OBUS	0.85	0.97
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	2.7200e-003	2.9780e-003
tblVehicleEF	OBUS	1.80	1.72
tblVehicleEF	OBUS	1.86	2.39
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tblVehicleEF	OBUS	587.81	605.30
tblVehicleEF	OBUS	1,050.92	1,083.72
tblVehicleEF	OBUS	34.54	36.27
tblVehicleEF	OBUS	1.7870e-003	1.8030e-003
tblVehicleEF	OBUS	5.47	6.13
tblVehicleEF	OBUS	3.00	3.90

tblVehicleEF	OBUS	1.66	1.85
tblVehicleEF	OBUS	8.6440e-003	0.02
tblVehicleEF	OBUS	0.09	0.09
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	9.5900e-004	1.2800e-003
tblVehicleEF	OBUS	7.9520e-003	0.01
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	2.5640e-003	2.5570e-003
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	8.6000e-004	1.1250e-003
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tblVehicleEF	OBUS	0.40	0.39
tblVehicleEF	OBUS	9.1200e-004	9.7800e-004
tblVehicleEF	OBUS	0.18	0.22
tblVehicleEF	OBUS	0.29	0.30
tblVehicleEF	OBUS	0.66	0.76
tblVehicleEF	OBUS	5.9980e-003	5.9840e-003
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	5.4100e-004	5.7200e-004
tblVehicleEF	OBUS	2.9670e-003	3.2300e-003
tblVehicleEF	OBUS	0.03	0.04
tblVehicleEF	OBUS	0.45	0.44
tblVehicleEF	OBUS	9.1200e-004	9.7800e-004
tblVehicleEF	OBUS	0.21	0.26
tblVehicleEF	OBUS	0.29	0.30
tblVehicleEF	OBUS	0.71	0.81

tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	2.7200e-003	2.9780e-003
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tblVehicleEF	OBUS	509.32	524.48
tblVehicleEF	OBUS	1,050.92	1,083.72
tblVehicleEF	OBUS	34.54	36.27
tblVehicleEF	OBUS	1.7870e-003	1.8030e-003
tblVehicleEF	OBUS	5.06	5.67
tblVehicleEF	OBUS	3.27	4.26
tblVehicleEF	OBUS	1.87	2.09
tblVehicleEF	OBUS	0.01	0.02
tblVehicleEF	OBUS	0.09	0.09
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	9.5900e-004	1.2800e-003
tblVehicleEF	OBUS	0.01	0.02
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	2.5640e-003	2.5570e-003
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	8.6000e-004	1.1250e-003
tblVehicleEF	OBUS	3.9300e-004	4.0500e-004
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.46	0.45
tblVehicleEF	OBUS	2.0000e-004	2.0100e-004
tblVehicleEF	OBUS	0.18	0.22
tblVehicleEF	OBUS	0.31	0.33

tblVehicleEF	OBUS	0.95	1.10
tblVehicleEF	OBUS	5.1970e-003	5.1850e-003
tblVehicleEF	OBUS	6.7600e-004	7.2300e-004
tblVehicleEF	OBUS	3.9300e-004	4.0500e-004
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.52	0.51
tblVehicleEF	OBUS	2.0000e-004	2.0100e-004
tblVehicleEF	OBUS	0.20	0.25
tblVehicleEF	OBUS	0.31	0.33
tblVehicleEF	OBUS	1.02	1.18
tblVehicleEF	SBUS	4.3220e-003	5.4360e-003
tblVehicleEF	SBUS	5.0120e-003	7.2460e-003
tblVehicleEF	SBUS	0.99	1.06
tblVehicleEF	SBUS	6.84	8.44
tblVehicleEF	SBUS	43.56	48.42
tblVehicleEF	SBUS	563.29	570.82
tblVehicleEF	SBUS	1,052.56	1,091.27
tblVehicleEF	SBUS	122.83	129.17
tblVehicleEF	SBUS	9.2300e-004	9.4600e-004
tblVehicleEF	SBUS	7.75	8.09
tblVehicleEF	SBUS	7.29	8.16
tblVehicleEF	SBUS	2.92	3.17
tblVehicleEF	SBUS	0.01	0.03
tblVehicleEF	SBUS	0.53	0.53
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.05	0.08
tblVehicleEF	SBUS	7.6770e-003	9.5990e-003
tblVehicleEF	SBUS	0.01	0.02

tblVehicleEF	SBUS	0.23	0.23
tblVehicleEF	SBUS	2.6950e-003	2.6990e-003
tblVehicleEF	SBUS	0.04	0.08
tblVehicleEF	SBUS	6.8320e-003	8.3940e-003
tblVehicleEF	SBUS	0.06	0.07
tblVehicleEF	SBUS	0.28	0.33
tblVehicleEF	SBUS	0.09	0.12
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.60	0.72
tblVehicleEF	SBUS	2.29	2.51
tblVehicleEF	SBUS	2.92	3.35
tblVehicleEF	SBUS	5.7480e-003	5.6430e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	2.0870e-003	2.2020e-003
tblVehicleEF	SBUS	0.06	0.07
tblVehicleEF	SBUS	0.28	0.33
tblVehicleEF	SBUS	0.11	0.13
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.66	0.79
tblVehicleEF	SBUS	2.29	2.51
tblVehicleEF	SBUS	3.12	3.58
tblVehicleEF	SBUS	4.0730e-003	5.1230e-003
tblVehicleEF	SBUS	5.0120e-003	7.2460e-003
tblVehicleEF	SBUS	0.72	0.77
tblVehicleEF	SBUS	7.03	8.63
tblVehicleEF	SBUS	34.69	38.82
tblVehicleEF	SBUS	596.75	604.73
tblVehicleEF	SBUS	1,052.56	1,091.27

tblVehicleEF	SBUS	122.83	129.17
tblVehicleEF	SBUS	9.2300e-004	9.4600e-004
tblVehicleEF	SBUS	8.00	8.35
tblVehicleEF	SBUS	6.86	7.68
tblVehicleEF	SBUS	2.68	2.91
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	0.53	0.53
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.05	0.08
tblVehicleEF	SBUS	7.6770e-003	9.5990e-003
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	0.23	0.23
tblVehicleEF	SBUS	2.6950e-003	2.6990e-003
tblVehicleEF	SBUS	0.04	0.08
tblVehicleEF	SBUS	6.8320e-003	8.3940e-003
tblVehicleEF	SBUS	0.15	0.17
tblVehicleEF	SBUS	0.32	0.37
tblVehicleEF	SBUS	0.09	0.11
tblVehicleEF	SBUS	0.04	0.04
tblVehicleEF	SBUS	0.62	0.74
tblVehicleEF	SBUS	2.06	2.26
tblVehicleEF	SBUS	2.48	2.83
tblVehicleEF	SBUS	6.0890e-003	5.9790e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	1.9340e-003	2.0350e-003
tblVehicleEF	SBUS	0.15	0.17
tblVehicleEF	SBUS	0.32	0.37
tblVehicleEF	SBUS	0.10	0.13

tblVehicleEF	SBUS	0.04	0.04
tblVehicleEF	SBUS	0.68	0.81
tblVehicleEF	SBUS	2.06	2.26
tblVehicleEF	SBUS	2.65	3.03
tblVehicleEF	SBUS	4.6660e-003	5.8680e-003
tblVehicleEF	SBUS	5.0120e-003	7.2460e-003
tblVehicleEF	SBUS	1.37	1.46
tblVehicleEF	SBUS	6.80	8.51
tblVehicleEF	SBUS	55.08	60.96
tblVehicleEF	SBUS	517.07	523.99
tblVehicleEF	SBUS	1,052.56	1,091.27
tblVehicleEF	SBUS	122.83	129.17
tblVehicleEF	SBUS	9.2300e-004	9.4600e-004
tblVehicleEF	SBUS	7.40	7.73
tblVehicleEF	SBUS	7.48	8.37
tblVehicleEF	SBUS	3.15	3.42
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	0.53	0.53
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.05	0.08
tblVehicleEF	SBUS	7.6770e-003	9.5990e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	0.23	0.23
tblVehicleEF	SBUS	2.6950e-003	2.6990e-003
tblVehicleEF	SBUS	0.04	0.08
tblVehicleEF	SBUS	6.8320e-003	8.3940e-003
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.31	0.37

tblVehicleEF	SBUS	0.10	0.13
tblVehicleEF	SBUS	7.4950e-003	8.0200e-003
tblVehicleEF	SBUS	0.58	0.71
tblVehicleEF	SBUS	2.80	3.07
tblVehicleEF	SBUS	3.45	3.98
tblVehicleEF	SBUS	5.2760e-003	5.1800e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	2.2850e-003	2.4190e-003
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.31	0.37
tblVehicleEF	SBUS	0.11	0.14
tblVehicleEF	SBUS	7.4950e-003	8.0200e-003
tblVehicleEF	SBUS	0.64	0.78
tblVehicleEF	SBUS	2.80	3.07
tblVehicleEF	SBUS	3.69	4.26
tblVehicleEF	UBUS	6.81	7.34
tblVehicleEF	UBUS	19.65	20.76
tblVehicleEF	UBUS	1,874.93	1,950.56
tblVehicleEF	UBUS	38.32	39.65
tblVehicleEF	UBUS	1.5760e-003	1.5980e-003
tblVehicleEF	UBUS	10.74	11.42
tblVehicleEF	UBUS	2.46	2.56
tblVehicleEF	UBUS	0.62	0.62
tblVehicleEF	UBUS	0.17	0.17
tblVehicleEF	UBUS	9.2300e-004	1.0210e-003
tblVehicleEF	UBUS	0.27	0.27
tblVehicleEF	UBUS	0.15	0.16
tblVehicleEF	UBUS	8.1500e-004	8.9500e-004

tblVehicleEF	UBUS	9.6070e-003	9.9850e-003
tblVehicleEF	UBUS	0.13	0.14
tblVehicleEF	UBUS	3.6800e-003	3.8330e-003
tblVehicleEF	UBUS	0.85	0.90
tblVehicleEF	UBUS	0.80	0.80
tblVehicleEF	UBUS	1.41	1.47
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	7.6200e-004	7.8300e-004
tblVehicleEF	UBUS	9.6070e-003	9.9850e-003
tblVehicleEF	UBUS	0.13	0.14
tblVehicleEF	UBUS	3.6800e-003	3.8330e-003
tblVehicleEF	UBUS	0.94	0.99
tblVehicleEF	UBUS	0.80	0.80
tblVehicleEF	UBUS	1.51	1.58
tblVehicleEF	UBUS	6.94	7.48
tblVehicleEF	UBUS	15.52	16.42
tblVehicleEF	UBUS	1,874.93	1,950.56
tblVehicleEF	UBUS	38.32	39.65
tblVehicleEF	UBUS	1.5760e-003	1.5980e-003
tblVehicleEF	UBUS	10.12	10.75
tblVehicleEF	UBUS	2.31	2.40
tblVehicleEF	UBUS	0.62	0.62
tblVehicleEF	UBUS	0.17	0.17
tblVehicleEF	UBUS	9.2300e-004	1.0210e-003
tblVehicleEF	UBUS	0.27	0.27
tblVehicleEF	UBUS	0.15	0.16
tblVehicleEF	UBUS	8.1500e-004	8.9500e-004
tblVehicleEF	UBUS	0.02	0.02

tblVehicleEF	UBUS	0.17	0.18
tblVehicleEF	UBUS	8.5300e-003	8.9740e-003
tblVehicleEF	UBUS	0.86	0.91
tblVehicleEF	UBUS	0.77	0.76
tblVehicleEF	UBUS	1.22	1.28
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	6.9100e-004	7.0800e-004
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	0.17	0.18
tblVehicleEF	UBUS	8.5300e-003	8.9740e-003
tblVehicleEF	UBUS	0.95	1.01
tblVehicleEF	UBUS	0.77	0.76
tblVehicleEF	UBUS	1.31	1.37
tblVehicleEF	UBUS	6.76	7.30
tblVehicleEF	UBUS	24.59	25.96
tblVehicleEF	UBUS	1,874.93	1,950.56
tblVehicleEF	UBUS	38.32	39.65
tblVehicleEF	UBUS	1.5760e-003	1.5980e-003
tblVehicleEF	UBUS	11.01	11.71
tblVehicleEF	UBUS	2.63	2.73
tblVehicleEF	UBUS	0.62	0.62
tblVehicleEF	UBUS	0.17	0.17
tblVehicleEF	UBUS	9.2300e-004	1.0210e-003
tblVehicleEF	UBUS	0.27	0.27
tblVehicleEF	UBUS	0.15	0.16
tblVehicleEF	UBUS	8.1500e-004	8.9500e-004
tblVehicleEF	UBUS	3.2070e-003	3.3050e-003
tblVehicleEF	UBUS	0.14	0.15

tblVehicleEF	UBUS	1.6000e-003	1.6350e-003
tblVehicleEF	UBUS	0.83	0.88
tblVehicleEF	UBUS	0.98	0.96
tblVehicleEF	UBUS	1.63	1.70
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	8.4700e-004	8.7100e-004
tblVehicleEF	UBUS	3.2070e-003	3.3050e-003
tblVehicleEF	UBUS	0.14	0.15
tblVehicleEF	UBUS	1.6000e-003	1.6350e-003
tblVehicleEF	UBUS	0.92	0.98
tblVehicleEF	UBUS	0.98	0.96
tblVehicleEF	UBUS	1.74	1.82
tblVehicleTrips	CC_TL	7.30	6.60
tblVehicleTrips	CNW_TL	7.30	6.60
tblVehicleTrips	CW_TL	9.50	14.70

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2017	0.3941	4.1101	2.4256	3.7500e-003	9.8826	0.2256	10.1082	0.9878	0.2078	1.1956	0.0000	343.2427	343.2427	0.0987	0.0000	345.3160
2018	8.8000e-004	9.2700e-003	6.8600e-003	1.0000e-005	0.1285	4.8000e-004	0.1290	0.0128	4.4000e-004	0.0133	0.0000	0.9522	0.9522	2.6000e-004	0.0000	0.9578
Total	**0.3950**	**4.1194**	**2.4324**	**3.7600e-003**	**10.0110**	**0.2261**	**10.2371**	**1.0007**	**0.2082**	**1.2089**	**0.0000**	**344.1949**	**344.1949**	**0.0990**	**0.0000**	**346.2738**

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					
2017	0.3941	2.5337	2.4256	3.7500e-003	9.8621	0.2256	10.0877	0.9856	0.2078	1.1934	0.0000	343.2423	343.2423	0.0987	0.0000	345.3156
2018	8.8000e-004	9.2700e-003	6.8600e-003	1.0000e-005	0.1285	4.8000e-004	0.1290	0.0128	4.4000e-004	0.0133	0.0000	0.9522	0.9522	2.6000e-004	0.0000	0.9578
Total	**0.3950**	**2.5430**	**2.4324**	**3.7600e-003**	**9.9906**	**0.2261**	**10.2167**	**0.9985**	**0.2082**	**1.2067**	**0.0000**	**344.1945**	**344.1945**	**0.0990**	**0.0000**	**346.2734**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**0.00**	**38.27**	**0.00**	**0.00**	**0.20**	**0.00**	**0.20**	**0.22**	**0.00**	**0.18**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**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**

2.3 Vegetation

Vegetation

	CO2e
Category	MT
Vegetation Land Change	-434.0000
Total	**-434.0000**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Excavation/Earth Works	Grading	6/1/2017	10/31/2017	5	109	Grading, Excavation, Levee Walls
2	Shotcrete/Irrigation/Pump Station	Building Construction	11/1/2017	1/1/2018	5	44	Shotcrete, Irrigation, Pump Station

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 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Excavation/Earth Works	Crawler Tractors	3	4.00	208	0.43
Excavation/Earth Works	Dumpers/Tenders	4	6.00	16	0.38
Excavation/Earth Works	Excavators	4	4.00	162	0.38
Excavation/Earth Works	Sweepers/Scrubbers	1	2.00	64	0.46
Excavation/Earth Works	Tractors/Loaders/Backhoes	6	6.00	97	0.37
Shotcrete/Irrigation/Pump Station	Other Construction Equipment	6	2.00	171	0.42
Shotcrete/Irrigation/Pump Station	Other Construction Equipment	6	2.00	171	0.42
Excavation/Earth Works	Graders	6	4.00	174	0.41

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Excavation/Earth Works	18	11.00	5.00	10.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Shotcrete/Irrigation/Pump Station	12	11.00	5.00	10.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Excavation/Earth Works - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0371	0.0000	0.0371	4.0100e-003	0.0000	4.0100e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3455	3.6225	2.0450	3.1400e-003		0.2013	0.2013		0.1854	0.1854	0.0000	289.6285	289.6285	0.0870	0.0000	291.4546
Total	**0.3455**	**3.6225**	**2.0450**	**3.1400e-003**	**0.0371**	**0.2013**	**0.2384**	**4.0100e-003**	**0.1854**	**0.1894**	**0.0000**	**289.6285**	**289.6285**	**0.0870**	**0.0000**	**291.4546**

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	1.1000e-004	1.1700e-003	1.2700e-003	0.0000	0.0646	2.0000e-005	0.0646	6.4500e-003	2.0000e-005	6.4700e-003	0.0000	0.3349	0.3349	0.0000	0.0000	0.3349
Vendor	3.1400e-003	0.0223	0.0393	6.0000e-005	0.4655	3.6000e-004	0.4659	0.0467	3.3000e-004	0.0471	0.0000	5.2635	5.2635	4.0000e-005	0.0000	5.2644
Worker	2.2800e-003	3.7900e-003	0.0362	9.0000e-005	6.5021	5.0000e-005	6.5022	0.6495	5.0000e-005	0.6496	0.0000	6.3497	6.3497	3.2000e-004	0.0000	6.3564
Total	**5.5300e-003**	**0.0273**	**0.0768**	**1.5000e-004**	**7.0322**	**4.3000e-004**	**7.0326**	**0.7027**	**4.0000e-004**	**0.7031**	**0.0000**	**11.9481**	**11.9481**	**3.6000e-004**	**0.0000**	**11.9557**

3.2 Excavation/Earth Works - 2017

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					0.0167	0.0000	0.0167	1.8000e-003	0.0000	1.8000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3455	2.0462	2.0450	3.1400e-003		0.2013	0.2013		0.1854	0.1854	0.0000	289.6281	289.6281	0.0870	0.0000	291.4542
Total	**0.3455**	**2.0462**	**2.0450**	**3.1400e-003**	**0.0167**	**0.2013**	**0.2180**	**1.8000e-003**	**0.1854**	**0.1872**	**0.0000**	**289.6281**	**289.6281**	**0.0870**	**0.0000**	**291.4542**

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	1.1000e-004	1.1700e-003	1.2700e-003	0.0000	0.0646	2.0000e-005	0.0646	6.4500e-003	2.0000e-005	6.4700e-003	0.0000	0.3349	0.3349	0.0000	0.0000	0.3349
Vendor	3.1400e-003	0.0223	0.0393	6.0000e-005	0.4655	3.6000e-004	0.4659	0.0467	3.3000e-004	0.0471	0.0000	5.2635	5.2635	4.0000e-005	0.0000	5.2644
Worker	2.2800e-003	3.7900e-003	0.0362	9.0000e-005	6.5021	5.0000e-005	6.5022	0.6495	5.0000e-005	0.6496	0.0000	6.3497	6.3497	3.2000e-004	0.0000	6.3564
Total	**5.5300e-003**	**0.0273**	**0.0768**	**1.5000e-004**	**7.0322**	**4.3000e-004**	**7.0326**	**0.7027**	**4.0000e-004**	**0.7031**	**0.0000**	**11.9481**	**11.9481**	**3.6000e-004**	**0.0000**	**11.9557**

3.3 Shotcrete/Irrigation/Pump Station - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0409	0.4489	0.2727	4.0000e-004		0.0237	0.0237		0.0218	0.0218	0.0000	36.7575	36.7575	0.0113	0.0000	36.9941
Total	**0.0409**	**0.4489**	**0.2727**	**4.0000e-004**		**0.0237**	**0.0237**		**0.0218**	**0.0218**	**0.0000**	**36.7575**	**36.7575**	**0.0113**	**0.0000**	**36.9941**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-004	1.1400e-003	1.2400e-003	0.0000	0.0646	2.0000e-005	0.0646	6.4500e-003	2.0000e-005	6.4700e-003	0.0000	0.3273	0.3273	0.0000	0.0000	0.3273
Vendor	1.2400e-003	8.7900e-003	0.0155	2.0000e-005	0.1836	1.4000e-004	0.1838	0.0184	1.3000e-004	0.0186	0.0000	2.0764	2.0764	2.0000e-005	0.0000	2.0768
Worker	9.0000e-004	1.4900e-003	0.0143	4.0000e-005	2.5651	2.0000e-005	2.5651	0.2562	2.0000e-005	0.2563	0.0000	2.5049	2.5049	1.3000e-004	0.0000	2.5076
Total	**2.2400e-003**	**0.0114**	**0.0310**	**6.0000e-005**	**2.8133**	**1.8000e-004**	**2.8134**	**0.2811**	**1.7000e-004**	**0.2813**	**0.0000**	**4.9086**	**4.9086**	**1.5000e-004**	**0.0000**	**4.9117**

3.3 Shotcrete/Irrigation/Pump Station - 2017

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0409	0.4489	0.2727	4.0000e-004		0.0237	0.0237		0.0218	0.0218	0.0000	36.7575	36.7575	0.0113	0.0000	36.9940
Total	**0.0409**	**0.4489**	**0.2727**	**4.0000e-004**		**0.0237**	**0.0237**		**0.0218**	**0.0218**	**0.0000**	**36.7575**	**36.7575**	**0.0113**	**0.0000**	**36.9940**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-004	1.1400e-003	1.2400e-003	0.0000	0.0646	2.0000e-005	0.0646	6.4500e-003	2.0000e-005	6.4700e-003	0.0000	0.3273	0.3273	0.0000	0.0000	0.3273
Vendor	1.2400e-003	8.7900e-003	0.0155	2.0000e-005	0.1836	1.4000e-004	0.1838	0.0184	1.3000e-004	0.0186	0.0000	2.0764	2.0764	2.0000e-005	0.0000	2.0768
Worker	9.0000e-004	1.4900e-003	0.0143	4.0000e-005	2.5651	2.0000e-005	2.5651	0.2562	2.0000e-005	0.2563	0.0000	2.5049	2.5049	1.3000e-004	0.0000	2.5076
Total	**2.2400e-003**	**0.0114**	**0.0310**	**6.0000e-005**	**2.8133**	**1.8000e-004**	**2.8134**	**0.2811**	**1.7000e-004**	**0.2813**	**0.0000**	**4.9086**	**4.9086**	**1.5000e-004**	**0.0000**	**4.9117**

3.3 Shotcrete/Irrigation/Pump Station - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.3000e-004	9.0300e-003	6.2000e-003	1.0000e-005		4.8000e-004	4.8000e-004		4.4000e-004	4.4000e-004	0.0000	0.8411	0.8411	2.6000e-004	0.0000	0.8466
Total	**8.3000e-004**	**9.0300e-003**	**6.2000e-003**	**1.0000e-005**		**4.8000e-004**	**4.8000e-004**		**4.4000e-004**	**4.4000e-004**	**0.0000**	**0.8411**	**0.8411**	**2.6000e-004**	**0.0000**	**0.8466**

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	2.0000e-005	3.0000e-005	0.0000	0.0646	0.0000	0.0646	6.4500e-003	0.0000	6.4500e-003	0.0000	7.4800e-003	7.4800e-003	0.0000	0.0000	7.4800e-003
Vendor	3.0000e-005	1.8000e-004	3.3000e-004	0.0000	4.2700e-003	0.0000	4.2700e-003	4.3000e-004	0.0000	4.3000e-004	0.0000	0.0474	0.0474	0.0000	0.0000	0.0474
Worker	2.0000e-005	3.0000e-005	2.9000e-004	0.0000	0.0597	0.0000	0.0597	5.9600e-003	0.0000	5.9600e-003	0.0000	0.0562	0.0562	0.0000	0.0000	0.0562
Total	**5.0000e-005**	**2.3000e-004**	**6.5000e-004**	**0.0000**	**0.1285**	**0.0000**	**0.1285**	**0.0128**	**0.0000**	**0.0128**	**0.0000**	**0.1111**	**0.1111**	**0.0000**	**0.0000**	**0.1111**

3.3 Shotcrete/Irrigation/Pump Station - 2018

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.3000e-004	9.0300e-003	6.2000e-003	1.0000e-005		4.8000e-004	4.8000e-004		4.4000e-004	4.4000e-004	0.0000	0.8411	0.8411	2.6000e-004	0.0000	0.8466
Total	**8.3000e-004**	**9.0300e-003**	**6.2000e-003**	**1.0000e-005**		**4.8000e-004**	**4.8000e-004**		**4.4000e-004**	**4.4000e-004**	**0.0000**	**0.8411**	**0.8411**	**2.6000e-004**	**0.0000**	**0.8466**

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	2.0000e-005	3.0000e-005	0.0000	0.0646	0.0000	0.0646	6.4500e-003	0.0000	6.4500e-003	0.0000	7.4800e-003	7.4800e-003	0.0000	0.0000	7.4800e-003
Vendor	3.0000e-005	1.8000e-004	3.3000e-004	0.0000	4.2700e-003	0.0000	4.2700e-003	4.3000e-004	0.0000	4.3000e-004	0.0000	0.0474	0.0474	0.0000	0.0000	0.0474
Worker	2.0000e-005	3.0000e-005	2.9000e-004	0.0000	0.0597	0.0000	0.0597	5.9600e-003	0.0000	5.9600e-003	0.0000	0.0562	0.0562	0.0000	0.0000	0.0562
Total	**5.0000e-005**	**2.3000e-004**	**6.5000e-004**	**0.0000**	**0.1285**	**0.0000**	**0.1285**	**0.0128**	**0.0000**	**0.0128**	**0.0000**	**0.1111**	**0.1111**	**0.0000**	**0.0000**	**0.1111**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
User Defined Industrial	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
User Defined Industrial	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.413014	0.062673	0.156172	0.176687	0.051255	0.007895	0.018867	0.100331	0.001803	0.001598	0.006448	0.000946	0.002310

4.4 Fleet Mix

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

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

5.2 Energy by Land Use - NaturalGas

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					
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

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

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	0.0000					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	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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	0.0000					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	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

9.0 Operational Offroad

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

10.0 Vegetation

	Total CO2	CH4	N2O	CO2e
Category	MT			
Unmitigated	-434.0000	0.0000	0.0000	-434.0000

10.1 Vegetation Land Change

Vegetation Type

	Initial/Final	Total CO2	CH4	N2O	CO2e
	Acres	MT			
Cropland	70 / 0	-434.0000	0.0000	0.0000	-434.0000
Total		**-434.0000**	**0.0000**	**0.0000**	**-434.0000**

Greenhouse Gas Emission Calculations for Pond Operations							
Proposed New Pumps							
Electricity Consumed (kWh/year)	CO2 (lbs)	CH4 (lbs)	N2O (lbs)	**CO2 (MT)**	**CH4 (MT)**	**N2O (MT)**	**MT CO2e**
114382.923	114562.81	3.31710477	0.70574263	51.9645472	0.001505	0.000320118	52.09538039

Decommissioned Pump							
Electricity Consumed (kWh/year)*	CO2 (lbs)	CH4 (lbs)	N2O (lbs)	**CO2 (MT)**	**CH4 (MT)**	**N2O (MT)**	**MT CO2e**
45000	45070.772	1.305	0.27765	20.4436516	0.000592	0.000125939	20.49512336

*Per West Yost

Percent Change with Pump

CO2 (MT)	**CH4 (MT)**	**N2O (MT)**	**MT CO2e**
39.34%	39.34%	39.34%	39.34%

Conversions:				
1	lb	=	0.00045359	MT
1000	kWh	=	1	MWh
1	MT	=	2204.6	lbs

Emission Factors per CalEEMod, Statewide Average		
	lb/MWh	lb/KWh
CO2	1001.5727	1.00157272
CH4	0.029	0.000029
N2O	0.00617	0.00000617

Global Warming Potential (Source: U.S EPA)	
CO2	1
CH4	21
N20	310

Conversions

1	lb	=	0.00045359	MT
1000	kWh	=	1	MWh
1	MT	=	2204.6	lbs

Emission Factors per CalEEMod, Statewide Average

	lb/MWh	lb/KWh
CO2	1001.573	1.001573
CH4	0.029	0.000029
N2O	0.00617	6.17E-06

CO2	1
CH4	21
N20	310