Appendix B Air Quality Emissions Summaries and Health Risks Analysis

```
 *** AERMOD - VERSION 09292 ***    *** C:\Lakes\AERMOD
View\CSUS_Mitigated\CSUS_Mitigated.isc               ***
05/14/15
                                   *** Construction Risks
***        15:57:20

PAGE   1
 **MODELOPTs:  RegDFAULT CONC
ELEV
     FLGPOL

                                            ***     MODEL SETUP OPTIONS
SUMMARY       ***
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - -

 **Model Is Setup For Calculation of Average CONCentration Values.

   --  DEPOSITION LOGIC  --
 **NO GAS DEPOSITION Data Provided.
 **NO PARTICLE DEPOSITION Data Provided.
 **Model Uses NO DRY DEPLETION.  DRYDPLT  =  F
 **Model Uses NO WET DEPLETION.  WETDPLT  =  F

 **Model Uses RURAL Dispersion Only.

 **Model Uses Regulatory DEFAULT Options:
        1. Stack-tip Downwash.
        2. Model Accounts for ELEVated Terrain Effects.
        3. Use Calms Processing Routine.
        4. Use Missing Data Processing Routine.
        5. No Exponential Decay.

 **Model Accepts FLAGPOLE Receptor Heights.

 **Model Calculates  1 Short Term Average(s) of:   1-HR
     and Calculates ANNUAL Averages

 **This Run Includes:      1 Source(s);       1 Source Group(s); and
2914 Receptor(s)

 **The Model Assumes A Pollutant Type of:  PM_2.5

 **Model Set To Continue RUNning After the Setup Testing.

 **Output Options Selected:
          Model Outputs Tables of ANNUAL Averages by Receptor
          Model Outputs Tables of Highest Short Term Values by Receptor
(RECTABLE Keyword)
          Model Outputs External File(s) of High Values for Plotting
(PLOTFILE Keyword)
          Model Outputs Separate Summary File of High Ranked Values
```

(SUMMFILE Keyword)

**NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours
m for Missing Hours
b for Both Calm and Missing Hours

**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 10.00 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0
Emission Units = GRAMS/SEC
; Emission Rate Unit Factor = 0.10000E+07
Output Units = MICROGRAMS/M**3

**Approximate Storage Requirements of Model = 3.8 MB of RAM.

**Detailed Error/Message File: CSUS_Mitigated.err
**File for Summary of Results: CSUS_Mitigated.sum

**MODELOPTs: RegDFAULT CONC ELEV
FLGPOL

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING *** (1=YES; 0=NO)

```
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1
1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1
1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1
1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1
1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1
1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1
1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1
1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1
```

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***

(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

**MODELOPTs: RegDFAULT CONC ELEV
FLGPOL

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file: ..\CSUS_Construction\CSUSMet.SFC
Met Version: 14134
Profile file: ..\CSUS_Construction\CSUSMet.PFL
Surface format: FREE
Profile format: FREE
Surface station no.: 23234 Upper air station no.: 23230
Name: SAN_FRANCISCO/INT'L_ARPT Name: OAKLAND/WSO_AP
Year: 1990 Year: 1990

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O LEN	Z0	BOWEN	ALBEDO	REF WS	WD	HT	REF TA	HT
90	01	01	1	01	-2.0	0.036	-9.000	-9.000	-999.	17.	2.2	0.00	0.45	1.00	2.10	201.	10.0	283.1	2.0
90	01	01	1	02	-1.9	0.036	-9.000	-9.000	-999.	17.	2.3	0.00	0.45	1.00	2.10	158.	10.0	282.5	2.0
90	01	01	1	03	-1.6	0.036	-9.000	-9.000	-999.	17.	2.8	0.00	0.45	1.00	2.10	134.	10.0	282.0	2.0
90	01	01	1	04	-1.5	0.036	-9.000	-9.000	-999.	17.	3.0	0.00	0.45	1.00	2.10	233.	10.0	283.1	2.0
90	01	01	1	05	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.00	0.45	1.00	0.00	0.	10.0	282.5	2.0
90	01	01	1	06	-0.8	0.026	-9.000	-9.000	-999.	10.	2.0	0.00	0.45	1.00	1.50	152.	10.0	282.5	2.0
90	01	01	1	07	-5.5	0.097	-9.000	-9.000	-999.	73.	15.1	0.00	0.45	1.00	3.60	165.	10.0	282.0	2.0
90	01	01	1	08	-1.5	0.036	-9.000	-9.000	-999.	18.	3.0	0.00	0.45	1.00	2.10	173.	10.0	282.0	2.0
90	01	01	1	09	1.1	0.077	0.072	0.005	12.	51.	-37.6	0.00	0.45	0.37	2.10	137.	10.0	283.1	2.0
90	01	01	1	10	5.6	0.081	0.188	0.005	43.	56.	-8.7	0.00	0.45	0.24	2.10	141.	10.0	284.2	2.0
90	01	01	1	11	27.3	0.122	0.510	0.005	176.	103.	-6.1	0.00							

```
0.45   0.19    3.10  204.   10.0  284.9    2.0
 90 01 01   1 12   14.9  0.153  0.505  0.005  312.  143.    -21.6  0.00
0.45   0.18    4.10  206.   10.0  284.2    2.0
 90 01 01   1 13   15.3  0.102  0.558  0.005  411.   79.     -6.3  0.00
0.45   0.17    2.60   83.   10.0  283.1    2.0
 90 01 01   1 14   13.1  0.102  0.559  0.005  480.   78.     -7.2  0.00
0.45   0.18    2.60  239.   10.0  283.1    2.0
 90 01 01   1 15    8.3  0.150  0.491  0.005  519.  139.    -36.8  0.00
0.45   0.21    4.10  242.   10.0  283.1    2.0
 90 01 01   1 16    1.1  0.178  0.254  0.005  524.  181.   -453.4  0.00
0.45   0.29    5.10  314.   10.0  283.1    2.0
 90 01 01   1 17   -6.3  0.122 -9.000 -9.000 -999.  103.     25.9  0.00
0.45   0.53    4.10  311.   10.0  283.1    2.0
 90 01 01   1 18  -10.5  0.157 -9.000 -9.000 -999.  149.     33.0  0.00
0.45   1.00    5.10  317.   10.0  282.5    2.0
 90 01 01   1 19   -6.8  0.120 -9.000 -9.000 -999.  100.     22.9  0.00
0.45   1.00    4.10  304.   10.0  282.0    2.0
 90 01 01   1 20   -8.9  0.096 -9.000 -9.000 -999.   71.      8.9  0.00
0.45   1.00    4.10  307.   10.0  281.4    2.0
 90 01 01   1 21  -18.4  0.166 -9.000 -9.000 -999.  162.     22.4  0.00
0.45   1.00    5.70  300.   10.0  281.4    2.0
 90 01 01   1 22  -21.0  0.186 -9.000 -9.000 -999.  193.     27.8  0.00
0.45   1.00    6.20  312.   10.0  281.4    2.0
 90 01 01   1 23  -17.5  0.168 -9.000 -9.000 -999.  166.     24.6  0.00
0.45   1.00    5.70  320.   10.0  282.0    2.0
 90 01 01   1 24  -12.2  0.117 -9.000 -9.000 -999.   96.     11.8  0.00
0.45   1.00    4.60  310.   10.0  280.4    2.0


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
 90 01 01 01   10.0 1  201.    2.10   283.2   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
```

**MODELOPTs: RegDFAULT CONC ELEV
FLGPOL

*** THE SUMMARY OF MAXIMUM ANNUAL RESULTS AVERAGED OVER 1 YEARS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

NETWORK GROUP ID		AVERAGE CONC		RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	GRID-ID
ALL	1ST HIGHEST VALUE IS	0.53408	AT (	561109.88, 4151750.65, 155.40, 155.40, 1.80)	GC	UCART1
	2ND HIGHEST VALUE IS	0.53235	AT (	561134.88, 4151725.65, 153.00, 248.40, 1.80)	GC	UCART1
	3RD HIGHEST VALUE IS	0.51928	AT (	561142.16, 4151720.31, 152.57, 248.41, 1.80)	DC	
	4TH HIGHEST VALUE IS	0.51248	AT (	561109.88, 4151725.65, 153.70, 248.40, 1.80)	GC	UCART1
	5TH HIGHEST VALUE IS	0.49715	AT (	561088.69, 4151768.25, 156.77, 156.77, 1.80)	DC	
	6TH HIGHEST VALUE IS	0.49620	AT (	561084.88, 4151750.65, 155.50, 155.50, 1.80)	GC	UCART1
	7TH HIGHEST VALUE IS	0.49038	AT (	561081.31, 4151772.86, 157.24, 157.24, 1.80)	DC	
	8TH HIGHEST VALUE IS	0.48664	AT (	561134.88, 4151750.65, 154.30, 154.30, 1.80)	GC	UCART1
	9TH HIGHEST VALUE IS	0.48390	AT (	561078.55, 4151783.00, 157.94, 157.94, 1.80)	DC	
	10TH HIGHEST VALUE IS	0.48372	AT (	561100.67, 4151768.25, 156.51, 156.51, 1.80)	DC	

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

```
 *** AERMOD - VERSION 09292 ***    *** C:\Lakes\AERMOD
View\CSUS_Mitigated\CSUS_Mitigated.isc               ***
05/14/15
                                   *** Construction Risks
***        15:57:20

PAGE   5
 **MODELOPTs:  RegDFAULT CONC
ELEV
     FLGPOL

                                                  *** THE SUMMARY OF
HIGHEST  1-HR RESULTS ***


                                    ** CONC OF PM_2.5   IN
MICROGRAMS/M**3                          **

                                                     DATE
NETWORK
GROUP ID                          AVERAGE CONC     (YYMMDDHH)
RECEPTOR  (XR, YR, ZELEV, ZHILL, ZFLAG)    OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

ALL      HIGH  1ST HIGH VALUE IS       7.51070  ON 90041006: AT (
560934.88,  4151950.65,   167.30,   167.30,    1.80)  GC  UCART1


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR
```

**MODELOPTs: RegDFAULT CONC ELEV
FLGPOL

*** Message Summary : AERMOD Model Execution ***

--------- Summary of Total Messages --------

A Total of 0 Fatal Error Message(s)
A Total of 8129 Warning Message(s)
A Total of 631 Informational Message(s)

A Total of 8760 Hours Were Processed

A Total of 594 Calm Hours Identified

A Total of 37 Missing Hours Identified (0.42 Percent)

******** FATAL ERROR MESSAGES ********
*** NONE ***

CSUS Middle School (Belmont, CA)

Bay Area AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior High School	60.00	1000sqft	6.00	60,000.00	0
Parking Lot	50.00	Space	0.45	20,000.00	0

1.2 Other Project Characteristics

Urbanization	Rural	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	64
Climate Zone	5			**Operational Year**	2018
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Modeler is CPD

Land Use - CPD input specific lot acreage

Construction Phase - CPD Override

Off-road Equipment - CPD Override

Off-road Equipment - CPD Override

Off-road Equipment - CPD Override

Off-road Equipment - CPD Override

Off-road Equipment - CPD Override

Off-road Equipment - CPD Override

Off-road Equipment - CPD Override

Off-road Equipment - CPD Override

Trips and VMT - CPD override

Demolition - CPD Input

Grading - CPD Override

Architectural Coating - CPD Input

Vehicle Trips - CPD Override

Landscape Equipment - CPD Override

Energy Use - CPD Override

Water And Wastewater - CPD Override

Solid Waste - CPD Override

Land Use Change -

Sequestration -

Construction Off-road Equipment Mitigation - CPD Override

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	250.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	250.00

tblArchitecturalCoating	EF_Residential_Interior	100.00	250.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2

tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstructionPhase	NumDays	20.00	19.00
tblConstructionPhase	NumDays	230.00	47.00
tblConstructionPhase	NumDays	230.00	66.00
tblConstructionPhase	NumDays	20.00	55.00
tblConstructionPhase	NumDays	20.00	135.00
tblConstructionPhase	NumDays	20.00	65.00
tblConstructionPhase	NumDays	10.00	55.00
tblConstructionPhase	PhaseEndDate	9/21/2017	8/31/2017
tblConstructionPhase	PhaseEndDate	8/30/2017	8/25/2017
tblConstructionPhase	PhaseEndDate	9/2/2016	6/17/2016
tblConstructionPhase	PhaseStartDate	8/26/2017	8/7/2017
tblConstructionPhase	PhaseStartDate	12/24/2016	12/26/2016
tblConstructionPhase	PhaseStartDate	6/18/2016	6/20/2016
tblConstructionPhase	PhaseStartDate	6/1/2017	5/29/2017
tblConstructionPhase	PhaseStartDate	6/18/2016	4/4/2016
tblEnergyUse	T24E	0.81	5.00
tblEnergyUse	T24NG	15.63	6.00
tblGrading	AcresOfGrading	67.50	1.50
tblGrading	AcresOfGrading	55.00	4.50
tblGrading	MaterialExported	0.00	1,400.00

tblLandUse	LotAcreage	1.38	6.00
tblOffRoadEquipment	HorsePower	167.00	46.00
tblOffRoadEquipment	HorsePower	199.00	255.00
tblOffRoadEquipment	HorsePower	361.00	97.00
tblOffRoadEquipment	LoadFactor	0.40	0.45
tblOffRoadEquipment	LoadFactor	0.36	0.40
tblOffRoadEquipment	LoadFactor	0.48	0.37
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		New Bldg Finishing
tblOffRoadEquipment	PhaseName		Existing Bldg Demo
tblProjectCharacteristics	OperationalYear	2014	2018
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	SolidWasteGenerationRate	78.00	15.00
tblTripsAndVMT	WorkerTripNumber	18.00	20.00
tblTripsAndVMT	WorkerTripNumber	13.00	20.00
tblVehicleEF	HHD	0.02	0.02

tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	2.96	2.85
tblVehicleEF	HHD	1.45	1.47
tblVehicleEF	HHD	73.07	78.94
tblVehicleEF	HHD	548.92	557.91
tblVehicleEF	HHD	1,618.01	1,646.57
tblVehicleEF	HHD	57.00	63.32
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	4.42	4.67
tblVehicleEF	HHD	5.07	5.60
tblVehicleEF	HHD	4.41	4.52
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.08	0.08
tblVehicleEF	HHD	3.1480e-003	4.9290e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.7050e-003	8.7060e-003
tblVehicleEF	HHD	0.07	0.07
tblVehicleEF	HHD	2.5990e-003	3.9550e-003
tblVehicleEF	HHD	2.0190e-003	2.5230e-003
tblVehicleEF	HHD	0.14	0.20
tblVehicleEF	HHD	0.53	0.51
tblVehicleEF	HHD	1.2290e-003	1.4550e-003
tblVehicleEF	HHD	0.25	0.25
tblVehicleEF	HHD	0.68	0.88
tblVehicleEF	HHD	2.76	3.33

tblVehicleEF	HHD	5.6010e-003	5.6030e-003
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	1.8420e-003	2.0100e-003
tblVehicleEF	HHD	2.0190e-003	2.5230e-003
tblVehicleEF	HHD	0.14	0.20
tblVehicleEF	HHD	0.60	0.58
tblVehicleEF	HHD	1.2290e-003	1.4550e-003
tblVehicleEF	HHD	0.28	0.28
tblVehicleEF	HHD	0.68	0.88
tblVehicleEF	HHD	2.95	3.57
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	2.15	2.07
tblVehicleEF	HHD	1.46	1.48
tblVehicleEF	HHD	51.88	58.14
tblVehicleEF	HHD	581.53	591.05
tblVehicleEF	HHD	1,618.01	1,646.57
tblVehicleEF	HHD	57.00	63.32
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	4.56	4.82
tblVehicleEF	HHD	4.87	5.39
tblVehicleEF	HHD	4.10	4.20
tblVehicleEF	HHD	9.2330e-003	9.4750e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.08	0.08
tblVehicleEF	HHD	3.1480e-003	4.9290e-003
tblVehicleEF	HHD	8.4950e-003	8.7170e-003

tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.7050e-003	8.7060e-003
tblVehicleEF	HHD	0.07	0.07
tblVehicleEF	HHD	2.5990e-003	3.9550e-003
tblVehicleEF	HHD	5.2500e-003	6.6800e-003
tblVehicleEF	HHD	0.15	0.21
tblVehicleEF	HHD	0.50	0.48
tblVehicleEF	HHD	3.1290e-003	3.8560e-003
tblVehicleEF	HHD	0.25	0.25
tblVehicleEF	HHD	0.67	0.86
tblVehicleEF	HHD	2.11	2.52
tblVehicleEF	HHD	5.9340e-003	5.9360e-003
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	1.4900e-003	1.6580e-003
tblVehicleEF	HHD	5.2500e-003	6.6800e-003
tblVehicleEF	HHD	0.15	0.21
tblVehicleEF	HHD	0.57	0.55
tblVehicleEF	HHD	3.1290e-003	3.8560e-003
tblVehicleEF	HHD	0.28	0.28
tblVehicleEF	HHD	0.67	0.86
tblVehicleEF	HHD	2.26	2.71
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	4.08	3.93
tblVehicleEF	HHD	1.44	1.47
tblVehicleEF	HHD	92.95	98.81
tblVehicleEF	HHD	503.88	512.13
tblVehicleEF	HHD	1,618.01	1,646.57

tblVehicleEF	HHD	57.00	63.32
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	4.22	4.46
tblVehicleEF	HHD	5.15	5.69
tblVehicleEF	HHD	4.65	4.77
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.08	0.08
tblVehicleEF	HHD	3.1480e-003	4.9290e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.7050e-003	8.7060e-003
tblVehicleEF	HHD	0.07	0.07
tblVehicleEF	HHD	2.5990e-003	3.9550e-003
tblVehicleEF	HHD	7.9900e-004	9.3500e-004
tblVehicleEF	HHD	0.17	0.24
tblVehicleEF	HHD	0.57	0.55
tblVehicleEF	HHD	4.7900e-004	5.3100e-004
tblVehicleEF	HHD	0.25	0.25
tblVehicleEF	HHD	0.74	0.96
tblVehicleEF	HHD	3.34	4.06
tblVehicleEF	HHD	5.1410e-003	5.1430e-003
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	2.1730e-003	2.3450e-003
tblVehicleEF	HHD	7.9900e-004	9.3500e-004
tblVehicleEF	HHD	0.17	0.24
tblVehicleEF	HHD	0.65	0.63

tblVehicleEF	HHD	4.7900e-004	5.3100e-004
tblVehicleEF	HHD	0.28	0.28
tblVehicleEF	HHD	0.74	0.96
tblVehicleEF	HHD	3.58	4.36
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	7.9800e-003	9.3160e-003
tblVehicleEF	LDA	0.86	0.98
tblVehicleEF	LDA	1.97	2.21
tblVehicleEF	LDA	255.88	266.82
tblVehicleEF	LDA	56.96	59.37
tblVehicleEF	LDA	0.55	0.55
tblVehicleEF	LDA	0.09	0.10
tblVehicleEF	LDA	0.12	0.14
tblVehicleEF	LDA	1.8140e-003	1.8600e-003
tblVehicleEF	LDA	3.1480e-003	3.0410e-003
tblVehicleEF	LDA	1.6760e-003	1.7120e-003
tblVehicleEF	LDA	2.9130e-003	2.8040e-003
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.11	0.12
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.26	0.28
tblVehicleEF	LDA	0.14	0.16
tblVehicleEF	LDA	3.4040e-003	3.4050e-003
tblVehicleEF	LDA	7.6800e-004	7.7200e-004
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.11	0.12
tblVehicleEF	LDA	0.03	0.03

tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.26	0.28
tblVehicleEF	LDA	0.15	0.17
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	7.9800e-003	9.3160e-003
tblVehicleEF	LDA	1.00	1.13
tblVehicleEF	LDA	1.33	1.50
tblVehicleEF	LDA	275.72	287.50
tblVehicleEF	LDA	56.96	59.37
tblVehicleEF	LDA	0.55	0.55
tblVehicleEF	LDA	0.08	0.09
tblVehicleEF	LDA	0.10	0.12
tblVehicleEF	LDA	1.8140e-003	1.8600e-003
tblVehicleEF	LDA	3.1480e-003	3.0410e-003
tblVehicleEF	LDA	1.6760e-003	1.7120e-003
tblVehicleEF	LDA	2.9130e-003	2.8040e-003
tblVehicleEF	LDA	0.09	0.10
tblVehicleEF	LDA	0.13	0.14
tblVehicleEF	LDA	0.07	0.08
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.24	0.27
tblVehicleEF	LDA	0.11	0.12
tblVehicleEF	LDA	3.6720e-003	3.6730e-003
tblVehicleEF	LDA	7.5700e-004	7.6000e-004
tblVehicleEF	LDA	0.09	0.10
tblVehicleEF	LDA	0.13	0.14
tblVehicleEF	LDA	0.07	0.08
tblVehicleEF	LDA	0.03	0.04

tblVehicleEF	LDA	0.24	0.27
tblVehicleEF	LDA	0.11	0.13
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	7.9800e-003	9.3160e-003
tblVehicleEF	LDA	0.86	0.98
tblVehicleEF	LDA	2.43	2.71
tblVehicleEF	LDA	253.53	264.37
tblVehicleEF	LDA	56.96	59.37
tblVehicleEF	LDA	0.55	0.55
tblVehicleEF	LDA	0.10	0.11
tblVehicleEF	LDA	0.13	0.15
tblVehicleEF	LDA	1.8140e-003	1.8600e-003
tblVehicleEF	LDA	3.1480e-003	3.0410e-003
tblVehicleEF	LDA	1.6760e-003	1.7120e-003
tblVehicleEF	LDA	2.9130e-003	2.8040e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.12	0.13
tblVehicleEF	LDA	0.01	0.02
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.30	0.33
tblVehicleEF	LDA	0.17	0.19
tblVehicleEF	LDA	3.3730e-003	3.3740e-003
tblVehicleEF	LDA	7.7600e-004	7.8100e-004
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.12	0.13
tblVehicleEF	LDA	0.01	0.02
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.30	0.33

tblVehicleEF	LDA	0.18	0.21
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	2.25	2.52
tblVehicleEF	LDT1	5.03	5.49
tblVehicleEF	LDT1	310.85	322.24
tblVehicleEF	LDT1	68.50	70.98
tblVehicleEF	LDT1	0.06	0.06
tblVehicleEF	LDT1	0.25	0.28
tblVehicleEF	LDT1	0.27	0.29
tblVehicleEF	LDT1	3.6200e-003	3.8620e-003
tblVehicleEF	LDT1	4.8200e-003	4.9570e-003
tblVehicleEF	LDT1	3.3470e-003	3.5570e-003
tblVehicleEF	LDT1	4.4600e-003	4.5720e-003
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.28	0.29
tblVehicleEF	LDT1	0.09	0.09
tblVehicleEF	LDT1	0.06	0.07
tblVehicleEF	LDT1	1.01	1.06
tblVehicleEF	LDT1	0.37	0.41
tblVehicleEF	LDT1	3.9450e-003	3.9470e-003
tblVehicleEF	LDT1	9.3300e-004	9.4000e-004
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.28	0.29
tblVehicleEF	LDT1	0.09	0.09
tblVehicleEF	LDT1	0.08	0.09
tblVehicleEF	LDT1	1.01	1.06
tblVehicleEF	LDT1	0.39	0.44

tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	2.56	2.84
tblVehicleEF	LDT1	3.41	3.74
tblVehicleEF	LDT1	333.40	345.52
tblVehicleEF	LDT1	68.50	70.98
tblVehicleEF	LDT1	0.06	0.06
tblVehicleEF	LDT1	0.22	0.24
tblVehicleEF	LDT1	0.23	0.26
tblVehicleEF	LDT1	3.6200e-003	3.8620e-003
tblVehicleEF	LDT1	4.8200e-003	4.9570e-003
tblVehicleEF	LDT1	3.3470e-003	3.5570e-003
tblVehicleEF	LDT1	4.4600e-003	4.5720e-003
tblVehicleEF	LDT1	0.29	0.31
tblVehicleEF	LDT1	0.32	0.34
tblVehicleEF	LDT1	0.20	0.21
tblVehicleEF	LDT1	0.06	0.07
tblVehicleEF	LDT1	0.92	0.97
tblVehicleEF	LDT1	0.28	0.31
tblVehicleEF	LDT1	4.2370e-003	4.2380e-003
tblVehicleEF	LDT1	9.0400e-004	9.1000e-004
tblVehicleEF	LDT1	0.29	0.31
tblVehicleEF	LDT1	0.32	0.34
tblVehicleEF	LDT1	0.20	0.21
tblVehicleEF	LDT1	0.09	0.10
tblVehicleEF	LDT1	0.92	0.97
tblVehicleEF	LDT1	0.30	0.33
tblVehicleEF	LDT1	0.02	0.02

tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	2.25	2.53
tblVehicleEF	LDT1	6.19	6.74
tblVehicleEF	LDT1	308.15	319.46
tblVehicleEF	LDT1	68.50	70.98
tblVehicleEF	LDT1	0.06	0.06
tblVehicleEF	LDT1	0.27	0.30
tblVehicleEF	LDT1	0.29	0.31
tblVehicleEF	LDT1	3.6200e-003	3.8620e-003
tblVehicleEF	LDT1	4.8200e-003	4.9570e-003
tblVehicleEF	LDT1	3.3470e-003	3.5570e-003
tblVehicleEF	LDT1	4.4600e-003	4.5720e-003
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.30	0.31
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.06	0.07
tblVehicleEF	LDT1	1.25	1.31
tblVehicleEF	LDT1	0.44	0.49
tblVehicleEF	LDT1	3.9100e-003	3.9120e-003
tblVehicleEF	LDT1	9.5300e-004	9.6200e-004
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.30	0.31
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.08	0.09
tblVehicleEF	LDT1	1.25	1.31
tblVehicleEF	LDT1	0.47	0.52
tblVehicleEF	LDT2	0.01	0.02
tblVehicleEF	LDT2	0.01	0.01

tblVehicleEF	LDT2	1.21	1.35
tblVehicleEF	LDT2	2.93	3.25
tblVehicleEF	LDT2	376.10	389.03
tblVehicleEF	LDT2	83.08	85.84
tblVehicleEF	LDT2	0.17	0.17
tblVehicleEF	LDT2	0.15	0.17
tblVehicleEF	LDT2	0.25	0.28
tblVehicleEF	LDT2	1.7470e-003	1.7840e-003
tblVehicleEF	LDT2	3.0860e-003	2.9700e-003
tblVehicleEF	LDT2	1.6150e-003	1.6440e-003
tblVehicleEF	LDT2	2.8570e-003	2.7430e-003
tblVehicleEF	LDT2	0.05	0.05
tblVehicleEF	LDT2	0.15	0.15
tblVehicleEF	LDT2	0.05	0.05
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.48	0.51
tblVehicleEF	LDT2	0.20	0.23
tblVehicleEF	LDT2	4.6250e-003	4.6280e-003
tblVehicleEF	LDT2	1.0530e-003	1.0580e-003
tblVehicleEF	LDT2	0.05	0.05
tblVehicleEF	LDT2	0.15	0.15
tblVehicleEF	LDT2	0.05	0.05
tblVehicleEF	LDT2	0.04	0.05
tblVehicleEF	LDT2	0.48	0.51
tblVehicleEF	LDT2	0.22	0.25
tblVehicleEF	LDT2	0.01	0.02
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	1.40	1.55

tblVehicleEF	LDT2	1.98	2.20
tblVehicleEF	LDT2	404.62	418.50
tblVehicleEF	LDT2	83.08	85.84
tblVehicleEF	LDT2	0.17	0.17
tblVehicleEF	LDT2	0.14	0.15
tblVehicleEF	LDT2	0.22	0.25
tblVehicleEF	LDT2	1.7470e-003	1.7840e-003
tblVehicleEF	LDT2	3.0860e-003	2.9700e-003
tblVehicleEF	LDT2	1.6150e-003	1.6440e-003
tblVehicleEF	LDT2	2.8570e-003	2.7430e-003
tblVehicleEF	LDT2	0.12	0.13
tblVehicleEF	LDT2	0.16	0.17
tblVehicleEF	LDT2	0.10	0.10
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.44	0.47
tblVehicleEF	LDT2	0.16	0.18
tblVehicleEF	LDT2	4.9800e-003	4.9820e-003
tblVehicleEF	LDT2	1.0370e-003	1.0400e-003
tblVehicleEF	LDT2	0.12	0.13
tblVehicleEF	LDT2	0.16	0.17
tblVehicleEF	LDT2	0.10	0.10
tblVehicleEF	LDT2	0.04	0.05
tblVehicleEF	LDT2	0.44	0.47
tblVehicleEF	LDT2	0.17	0.19
tblVehicleEF	LDT2	0.01	0.02
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	1.21	1.35
tblVehicleEF	LDT2	3.60	4.00

tblVehicleEF	LDT2	372.63	385.45
tblVehicleEF	LDT2	83.08	85.84
tblVehicleEF	LDT2	0.17	0.17
tblVehicleEF	LDT2	0.17	0.19
tblVehicleEF	LDT2	0.26	0.30
tblVehicleEF	LDT2	1.7470e-003	1.7840e-003
tblVehicleEF	LDT2	3.0860e-003	2.9700e-003
tblVehicleEF	LDT2	1.6150e-003	1.6440e-003
tblVehicleEF	LDT2	2.8570e-003	2.7430e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.15	0.16
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.59	0.62
tblVehicleEF	LDT2	0.24	0.27
tblVehicleEF	LDT2	4.5820e-003	4.5850e-003
tblVehicleEF	LDT2	1.0650e-003	1.0710e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.15	0.16
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.04	0.05
tblVehicleEF	LDT2	0.59	0.62
tblVehicleEF	LDT2	0.26	0.29
tblVehicleEF	LHD1	1.2260e-003	1.2310e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	0.18	0.18
tblVehicleEF	LHD1	1.87	2.04

tblVehicleEF	LHD1	5.00	5.25
tblVehicleEF	LHD1	8.16	8.29
tblVehicleEF	LHD1	782.61	795.43
tblVehicleEF	LHD1	39.86	40.36
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	0.06	0.06
tblVehicleEF	LHD1	1.33	1.43
tblVehicleEF	LHD1	1.31	1.34
tblVehicleEF	LHD1	6.2500e-004	6.3200e-004
tblVehicleEF	LHD1	0.05	0.05
tblVehicleEF	LHD1	9.2040e-003	9.2030e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.1090e-003	1.1980e-003
tblVehicleEF	LHD1	5.7500e-004	5.8100e-004
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	1.0240e-003	1.1050e-003
tblVehicleEF	LHD1	2.1700e-003	2.2040e-003
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	1.1700e-003	1.1640e-003
tblVehicleEF	LHD1	0.17	0.19
tblVehicleEF	LHD1	0.52	0.52
tblVehicleEF	LHD1	0.43	0.46
tblVehicleEF	LHD1	8.3140e-003	8.3200e-003
tblVehicleEF	LHD1	5.1800e-004	5.2100e-004
tblVehicleEF	LHD1	2.1700e-003	2.2040e-003
tblVehicleEF	LHD1	0.08	0.08

tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	1.1700e-003	1.1640e-003
tblVehicleEF	LHD1	0.20	0.22
tblVehicleEF	LHD1	0.52	0.52
tblVehicleEF	LHD1	0.46	0.49
tblVehicleEF	LHD1	1.2260e-003	1.2310e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	0.18	0.18
tblVehicleEF	LHD1	1.92	2.09
tblVehicleEF	LHD1	3.45	3.61
tblVehicleEF	LHD1	8.16	8.29
tblVehicleEF	LHD1	782.61	795.43
tblVehicleEF	LHD1	39.86	40.36
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	0.06	0.06
tblVehicleEF	LHD1	1.26	1.35
tblVehicleEF	LHD1	1.22	1.25
tblVehicleEF	LHD1	6.2500e-004	6.3200e-004
tblVehicleEF	LHD1	0.05	0.05
tblVehicleEF	LHD1	9.2040e-003	9.2030e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.1090e-003	1.1980e-003
tblVehicleEF	LHD1	5.7500e-004	5.8100e-004
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	1.0240e-003	1.1050e-003
tblVehicleEF	LHD1	5.3500e-003	5.4780e-003

tblVehicleEF	LHD1	0.09	0.09
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.6540e-003	2.6810e-003
tblVehicleEF	LHD1	0.18	0.19
tblVehicleEF	LHD1	0.50	0.50
tblVehicleEF	LHD1	0.35	0.37
tblVehicleEF	LHD1	8.3150e-003	8.3210e-003
tblVehicleEF	LHD1	4.9100e-004	4.9200e-004
tblVehicleEF	LHD1	5.3500e-003	5.4780e-003
tblVehicleEF	LHD1	0.09	0.09
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.6540e-003	2.6810e-003
tblVehicleEF	LHD1	0.21	0.23
tblVehicleEF	LHD1	0.50	0.50
tblVehicleEF	LHD1	0.37	0.39
tblVehicleEF	LHD1	1.2260e-003	1.2310e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	0.18	0.18
tblVehicleEF	LHD1	1.83	2.00
tblVehicleEF	LHD1	6.45	6.77
tblVehicleEF	LHD1	8.16	8.29
tblVehicleEF	LHD1	782.61	795.43
tblVehicleEF	LHD1	39.86	40.36
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	0.06	0.06
tblVehicleEF	LHD1	1.36	1.46
tblVehicleEF	LHD1	1.38	1.41

tblVehicleEF	LHD1	6.2500e-004	6.3200e-004
tblVehicleEF	LHD1	0.05	0.05
tblVehicleEF	LHD1	9.2040e-003	9.2030e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.1090e-003	1.1980e-003
tblVehicleEF	LHD1	5.7500e-004	5.8100e-004
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	1.0240e-003	1.1050e-003
tblVehicleEF	LHD1	8.9100e-004	8.8800e-004
tblVehicleEF	LHD1	0.09	0.09
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	5.1800e-004	5.0700e-004
tblVehicleEF	LHD1	0.17	0.19
tblVehicleEF	LHD1	0.57	0.58
tblVehicleEF	LHD1	0.51	0.53
tblVehicleEF	LHD1	8.3140e-003	8.3190e-003
tblVehicleEF	LHD1	5.4300e-004	5.4700e-004
tblVehicleEF	LHD1	8.9100e-004	8.8800e-004
tblVehicleEF	LHD1	0.09	0.09
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	5.1800e-004	5.0700e-004
tblVehicleEF	LHD1	0.20	0.22
tblVehicleEF	LHD1	0.57	0.58
tblVehicleEF	LHD1	0.54	0.57
tblVehicleEF	LHD2	9.3400e-004	9.3800e-004
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	0.01	0.02

tblVehicleEF	LHD2	0.14	0.14
tblVehicleEF	LHD2	1.29	1.47
tblVehicleEF	LHD2	2.86	3.10
tblVehicleEF	LHD2	9.01	9.16
tblVehicleEF	LHD2	670.03	680.94
tblVehicleEF	LHD2	25.78	26.25
tblVehicleEF	LHD2	4.8450e-003	4.8560e-003
tblVehicleEF	LHD2	0.11	0.11
tblVehicleEF	LHD2	1.96	2.11
tblVehicleEF	LHD2	0.79	0.81
tblVehicleEF	LHD2	1.2190e-003	1.2310e-003
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	6.1300e-004	7.2600e-004
tblVehicleEF	LHD2	1.1220e-003	1.1330e-003
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	5.6000e-004	6.5500e-004
tblVehicleEF	LHD2	1.2290e-003	1.2970e-003
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.6900e-004	6.8500e-004
tblVehicleEF	LHD2	0.15	0.17
tblVehicleEF	LHD2	0.31	0.33
tblVehicleEF	LHD2	0.25	0.27
tblVehicleEF	LHD2	7.0360e-003	7.0400e-003
tblVehicleEF	LHD2	3.2800e-004	3.3300e-004

tblVehicleEF	LHD2	1.2290e-003	1.2970e-003
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.6900e-004	6.8500e-004
tblVehicleEF	LHD2	0.18	0.20
tblVehicleEF	LHD2	0.31	0.33
tblVehicleEF	LHD2	0.26	0.29
tblVehicleEF	LHD2	9.3400e-004	9.3800e-004
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	0.14	0.14
tblVehicleEF	LHD2	1.30	1.49
tblVehicleEF	LHD2	1.99	2.18
tblVehicleEF	LHD2	9.01	9.16
tblVehicleEF	LHD2	670.03	680.94
tblVehicleEF	LHD2	25.78	26.25
tblVehicleEF	LHD2	4.8450e-003	4.8560e-003
tblVehicleEF	LHD2	0.11	0.11
tblVehicleEF	LHD2	1.87	2.02
tblVehicleEF	LHD2	0.74	0.76
tblVehicleEF	LHD2	1.2190e-003	1.2310e-003
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	6.1300e-004	7.2600e-004
tblVehicleEF	LHD2	1.1220e-003	1.1330e-003
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.02	0.03

tblVehicleEF	LHD2	5.6000e-004	6.5500e-004
tblVehicleEF	LHD2	3.0150e-003	3.2210e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.5080e-003	1.5780e-003
tblVehicleEF	LHD2	0.15	0.17
tblVehicleEF	LHD2	0.30	0.32
tblVehicleEF	LHD2	0.20	0.22
tblVehicleEF	LHD2	7.0360e-003	7.0410e-003
tblVehicleEF	LHD2	3.1300e-004	3.1700e-004
tblVehicleEF	LHD2	3.0150e-003	3.2210e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.5080e-003	1.5780e-003
tblVehicleEF	LHD2	0.18	0.20
tblVehicleEF	LHD2	0.30	0.32
tblVehicleEF	LHD2	0.21	0.23
tblVehicleEF	LHD2	9.3400e-004	9.3800e-004
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	0.14	0.14
tblVehicleEF	LHD2	1.28	1.47
tblVehicleEF	LHD2	3.65	3.95
tblVehicleEF	LHD2	9.01	9.16
tblVehicleEF	LHD2	670.03	680.94
tblVehicleEF	LHD2	25.78	26.25
tblVehicleEF	LHD2	4.8450e-003	4.8560e-003
tblVehicleEF	LHD2	0.11	0.11

tblVehicleEF	LHD2	1.99	2.15
tblVehicleEF	LHD2	0.84	0.86
tblVehicleEF	LHD2	1.2190e-003	1.2310e-003
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	6.1300e-004	7.2600e-004
tblVehicleEF	LHD2	1.1220e-003	1.1330e-003
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	5.6000e-004	6.5500e-004
tblVehicleEF	LHD2	5.2400e-004	5.3800e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	0.15	0.17
tblVehicleEF	LHD2	0.35	0.37
tblVehicleEF	LHD2	0.29	0.31
tblVehicleEF	LHD2	7.0360e-003	7.0400e-003
tblVehicleEF	LHD2	3.4200e-004	3.4800e-004
tblVehicleEF	LHD2	5.2400e-004	5.3800e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	0.18	0.19
tblVehicleEF	LHD2	0.35	0.37
tblVehicleEF	LHD2	0.31	0.34
tblVehicleEF	MCY	25.80	26.59
tblVehicleEF	MCY	10.77	10.70
tblVehicleEF	MCY	149.98	150.84

tblVehicleEF	MCY	40.86	42.13
tblVehicleEF	MCY	6.7070e-003	6.6730e-003
tblVehicleEF	MCY	1.24	1.25
tblVehicleEF	MCY	0.31	0.31
tblVehicleEF	MCY	0.04	0.04
tblVehicleEF	MCY	4.5100e-004	5.1700e-004
tblVehicleEF	MCY	1.2190e-003	1.3900e-003
tblVehicleEF	MCY	3.7100e-004	4.2200e-004
tblVehicleEF	MCY	9.9400e-004	1.1230e-003
tblVehicleEF	MCY	0.10	0.10
tblVehicleEF	MCY	0.39	0.41
tblVehicleEF	MCY	0.06	0.06
tblVehicleEF	MCY	2.69	2.72
tblVehicleEF	MCY	1.38	1.46
tblVehicleEF	MCY	2.25	2.27
tblVehicleEF	MCY	2.0940e-003	2.0910e-003
tblVehicleEF	MCY	6.7700e-004	6.8300e-004
tblVehicleEF	MCY	0.10	0.10
tblVehicleEF	MCY	0.39	0.41
tblVehicleEF	MCY	0.06	0.06
tblVehicleEF	MCY	2.94	2.98
tblVehicleEF	MCY	1.38	1.46
tblVehicleEF	MCY	2.42	2.44
tblVehicleEF	MCY	24.33	25.05
tblVehicleEF	MCY	8.83	8.82
tblVehicleEF	MCY	149.98	150.84
tblVehicleEF	MCY	40.86	42.13
tblVehicleEF	MCY	6.7070e-003	6.6730e-003

tblVehicleEF	MCY	1.09	1.09
tblVehicleEF	MCY	0.29	0.29
tblVehicleEF	MCY	0.04	0.04
tblVehicleEF	MCY	4.5100e-004	5.1700e-004
tblVehicleEF	MCY	1.2190e-003	1.3900e-003
tblVehicleEF	MCY	3.7100e-004	4.2200e-004
tblVehicleEF	MCY	9.9400e-004	1.1230e-003
tblVehicleEF	MCY	0.30	0.30
tblVehicleEF	MCY	0.56	0.58
tblVehicleEF	MCY	0.18	0.18
tblVehicleEF	MCY	2.58	2.60
tblVehicleEF	MCY	1.27	1.35
tblVehicleEF	MCY	1.83	1.84
tblVehicleEF	MCY	2.0670e-003	2.0630e-003
tblVehicleEF	MCY	6.3300e-004	6.4000e-004
tblVehicleEF	MCY	0.30	0.30
tblVehicleEF	MCY	0.56	0.58
tblVehicleEF	MCY	0.18	0.18
tblVehicleEF	MCY	2.82	2.85
tblVehicleEF	MCY	1.27	1.35
tblVehicleEF	MCY	1.97	1.98
tblVehicleEF	MCY	28.17	29.06
tblVehicleEF	MCY	12.69	12.59
tblVehicleEF	MCY	149.98	150.84
tblVehicleEF	MCY	40.86	42.13
tblVehicleEF	MCY	6.7070e-003	6.6730e-003
tblVehicleEF	MCY	1.33	1.34
tblVehicleEF	MCY	0.33	0.33

tblVehicleEF	MCY	0.04	0.04
tblVehicleEF	MCY	4.5100e-004	5.1700e-004
tblVehicleEF	MCY	1.2190e-003	1.3900e-003
tblVehicleEF	MCY	3.7100e-004	4.2200e-004
tblVehicleEF	MCY	9.9400e-004	1.1230e-003
tblVehicleEF	MCY	0.03	0.03
tblVehicleEF	MCY	0.47	0.49
tblVehicleEF	MCY	0.02	0.02
tblVehicleEF	MCY	2.81	2.85
tblVehicleEF	MCY	1.71	1.80
tblVehicleEF	MCY	2.64	2.66
tblVehicleEF	MCY	2.1340e-003	2.1330e-003
tblVehicleEF	MCY	7.1900e-004	7.2500e-004
tblVehicleEF	MCY	0.03	0.03
tblVehicleEF	MCY	0.47	0.49
tblVehicleEF	MCY	0.02	0.02
tblVehicleEF	MCY	3.07	3.11
tblVehicleEF	MCY	1.71	1.80
tblVehicleEF	MCY	2.83	2.86
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	2.07	2.22
tblVehicleEF	MDV	5.60	5.97
tblVehicleEF	MDV	496.38	511.23
tblVehicleEF	MDV	109.45	112.41
tblVehicleEF	MDV	0.12	0.12
tblVehicleEF	MDV	0.30	0.32
tblVehicleEF	MDV	0.49	0.53

tblVehicleEF	MDV	2.1350e-003	2.1740e-003
tblVehicleEF	MDV	3.5970e-003	3.5630e-003
tblVehicleEF	MDV	1.9710e-003	2.0050e-003
tblVehicleEF	MDV	3.3260e-003	3.2910e-003
tblVehicleEF	MDV	0.07	0.07
tblVehicleEF	MDV	0.21	0.21
tblVehicleEF	MDV	0.07	0.07
tblVehicleEF	MDV	0.05	0.06
tblVehicleEF	MDV	0.68	0.69
tblVehicleEF	MDV	0.46	0.50
tblVehicleEF	MDV	5.8850e-003	5.8830e-003
tblVehicleEF	MDV	1.3660e-003	1.3710e-003
tblVehicleEF	MDV	0.07	0.07
tblVehicleEF	MDV	0.21	0.21
tblVehicleEF	MDV	0.07	0.07
tblVehicleEF	MDV	0.08	0.09
tblVehicleEF	MDV	0.68	0.69
tblVehicleEF	MDV	0.49	0.53
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	2.39	2.55
tblVehicleEF	MDV	3.80	4.05
tblVehicleEF	MDV	533.87	549.78
tblVehicleEF	MDV	109.45	112.41
tblVehicleEF	MDV	0.12	0.12
tblVehicleEF	MDV	0.27	0.29
tblVehicleEF	MDV	0.43	0.47
tblVehicleEF	MDV	2.1350e-003	2.1740e-003

tblVehicleEF	MDV	3.5970e-003	3.5630e-003
tblVehicleEF	MDV	1.9710e-003	2.0050e-003
tblVehicleEF	MDV	3.3260e-003	3.2910e-003
tblVehicleEF	MDV	0.17	0.17
tblVehicleEF	MDV	0.24	0.23
tblVehicleEF	MDV	0.14	0.14
tblVehicleEF	MDV	0.06	0.07
tblVehicleEF	MDV	0.63	0.64
tblVehicleEF	MDV	0.35	0.38
tblVehicleEF	MDV	6.3350e-003	6.3310e-003
tblVehicleEF	MDV	1.3350e-003	1.3370e-003
tblVehicleEF	MDV	0.17	0.17
tblVehicleEF	MDV	0.24	0.23
tblVehicleEF	MDV	0.14	0.14
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.63	0.64
tblVehicleEF	MDV	0.38	0.40
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	2.08	2.22
tblVehicleEF	MDV	6.90	7.35
tblVehicleEF	MDV	491.73	506.45
tblVehicleEF	MDV	109.45	112.41
tblVehicleEF	MDV	0.12	0.12
tblVehicleEF	MDV	0.33	0.35
tblVehicleEF	MDV	0.53	0.57
tblVehicleEF	MDV	2.1350e-003	2.1740e-003
tblVehicleEF	MDV	3.5970e-003	3.5630e-003

tblVehicleEF	MDV	1.9710e-003	2.0050e-003
tblVehicleEF	MDV	3.3260e-003	3.2910e-003
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	0.22	0.22
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	0.05	0.06
tblVehicleEF	MDV	0.83	0.83
tblVehicleEF	MDV	0.55	0.59
tblVehicleEF	MDV	5.8300e-003	5.8280e-003
tblVehicleEF	MDV	1.3890e-003	1.3950e-003
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	0.22	0.22
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	0.08	0.09
tblVehicleEF	MDV	0.83	0.83
tblVehicleEF	MDV	0.59	0.63
tblVehicleEF	MH	3.21	4.03
tblVehicleEF	MH	8.88	9.85
tblVehicleEF	MH	701.53	713.08
tblVehicleEF	MH	33.40	34.01
tblVehicleEF	MH	1.62	1.73
tblVehicleEF	MH	0.91	0.98
tblVehicleEF	MH	0.05	0.05
tblVehicleEF	MH	8.5590e-003	8.5620e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	9.2400e-004	1.0960e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	0.03	0.03

tblVehicleEF	MH	8.5300e-004	1.0090e-003
tblVehicleEF	MH	8.0250e-003	8.6450e-003
tblVehicleEF	MH	0.08	0.09
tblVehicleEF	MH	2.9130e-003	3.0940e-003
tblVehicleEF	MH	0.14	0.16
tblVehicleEF	MH	2.25	2.44
tblVehicleEF	MH	0.47	0.52
tblVehicleEF	MH	7.4690e-003	7.4850e-003
tblVehicleEF	MH	5.1100e-004	5.2800e-004
tblVehicleEF	MH	8.0250e-003	8.6450e-003
tblVehicleEF	MH	0.08	0.09
tblVehicleEF	MH	2.9130e-003	3.0940e-003
tblVehicleEF	MH	0.17	0.20
tblVehicleEF	MH	2.25	2.44
tblVehicleEF	MH	0.50	0.56
tblVehicleEF	MH	3.31	4.13
tblVehicleEF	MH	6.20	6.80
tblVehicleEF	MH	701.53	713.08
tblVehicleEF	MH	33.40	34.01
tblVehicleEF	MH	1.51	1.61
tblVehicleEF	MH	0.86	0.92
tblVehicleEF	MH	0.05	0.05
tblVehicleEF	MH	8.5590e-003	8.5620e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	9.2400e-004	1.0960e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	8.5300e-004	1.0090e-003

tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	0.09	0.10
tblVehicleEF	MH	6.5960e-003	7.0990e-003
tblVehicleEF	MH	0.14	0.17
tblVehicleEF	MH	2.19	2.37
tblVehicleEF	MH	0.38	0.42
tblVehicleEF	MH	7.4710e-003	7.4870e-003
tblVehicleEF	MH	4.6600e-004	4.7700e-004
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	0.09	0.10
tblVehicleEF	MH	6.5960e-003	7.0990e-003
tblVehicleEF	MH	0.17	0.20
tblVehicleEF	MH	2.19	2.37
tblVehicleEF	MH	0.41	0.44
tblVehicleEF	MH	3.16	4.00
tblVehicleEF	MH	11.47	12.80
tblVehicleEF	MH	701.53	713.08
tblVehicleEF	MH	33.40	34.01
tblVehicleEF	MH	1.68	1.80
tblVehicleEF	MH	0.96	1.03
tblVehicleEF	MH	0.05	0.05
tblVehicleEF	MH	8.5590e-003	8.5620e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	9.2400e-004	1.0960e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	8.5300e-004	1.0090e-003
tblVehicleEF	MH	3.0630e-003	3.2340e-003

tblVehicleEF	MH	0.10	0.11
tblVehicleEF	MH	1.3120e-003	1.3680e-003
tblVehicleEF	MH	0.13	0.16
tblVehicleEF	MH	2.43	2.62
tblVehicleEF	MH	0.56	0.62
tblVehicleEF	MH	7.4680e-003	7.4850e-003
tblVehicleEF	MH	5.5400e-004	5.7800e-004
tblVehicleEF	MH	3.0630e-003	3.2340e-003
tblVehicleEF	MH	0.10	0.11
tblVehicleEF	MH	1.3120e-003	1.3680e-003
tblVehicleEF	MH	0.16	0.20
tblVehicleEF	MH	2.43	2.62
tblVehicleEF	MH	0.60	0.67
tblVehicleEF	MHD	7.5290e-003	7.5210e-003
tblVehicleEF	MHD	6.5040e-003	7.0330e-003
tblVehicleEF	MHD	1.86	1.85
tblVehicleEF	MHD	0.96	1.10
tblVehicleEF	MHD	21.63	23.47
tblVehicleEF	MHD	590.73	598.81
tblVehicleEF	MHD	1,035.67	1,054.12
tblVehicleEF	MHD	53.55	55.81
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	5.52	5.86
tblVehicleEF	MHD	2.69	3.08
tblVehicleEF	MHD	2.03	2.16
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.12	0.12
tblVehicleEF	MHD	0.01	0.01

tblVehicleEF	MHD	0.07	0.08
tblVehicleEF	MHD	2.5830e-003	3.1800e-003
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.05	0.05
tblVehicleEF	MHD	2.8580e-003	2.8590e-003
tblVehicleEF	MHD	0.06	0.07
tblVehicleEF	MHD	2.2680e-003	2.7450e-003
tblVehicleEF	MHD	2.3190e-003	2.5350e-003
tblVehicleEF	MHD	0.11	0.13
tblVehicleEF	MHD	0.16	0.16
tblVehicleEF	MHD	1.2460e-003	1.3270e-003
tblVehicleEF	MHD	0.17	0.18
tblVehicleEF	MHD	0.56	0.62
tblVehicleEF	MHD	1.28	1.44
tblVehicleEF	MHD	6.0280e-003	6.0140e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	9.5200e-004	1.0000e-003
tblVehicleEF	MHD	2.3190e-003	2.5350e-003
tblVehicleEF	MHD	0.11	0.13
tblVehicleEF	MHD	0.18	0.18
tblVehicleEF	MHD	1.2460e-003	1.3270e-003
tblVehicleEF	MHD	0.19	0.21
tblVehicleEF	MHD	0.56	0.62
tblVehicleEF	MHD	1.37	1.55
tblVehicleEF	MHD	7.0950e-003	7.0880e-003
tblVehicleEF	MHD	6.5040e-003	7.0330e-003
tblVehicleEF	MHD	1.35	1.34
tblVehicleEF	MHD	0.98	1.11

tblVehicleEF	MHD	15.01	16.43
tblVehicleEF	MHD	625.82	634.38
tblVehicleEF	MHD	1,035.67	1,054.12
tblVehicleEF	MHD	53.55	55.81
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	5.70	6.05
tblVehicleEF	MHD	2.58	2.95
tblVehicleEF	MHD	1.89	2.01
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.12	0.12
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	0.07	0.08
tblVehicleEF	MHD	2.5830e-003	3.1800e-003
tblVehicleEF	MHD	0.01	0.02
tblVehicleEF	MHD	0.05	0.05
tblVehicleEF	MHD	2.8580e-003	2.8590e-003
tblVehicleEF	MHD	0.06	0.07
tblVehicleEF	MHD	2.2680e-003	2.7450e-003
tblVehicleEF	MHD	5.9090e-003	6.5420e-003
tblVehicleEF	MHD	0.13	0.15
tblVehicleEF	MHD	0.15	0.15
tblVehicleEF	MHD	3.0520e-003	3.3280e-003
tblVehicleEF	MHD	0.17	0.18
tblVehicleEF	MHD	0.54	0.60
tblVehicleEF	MHD	1.01	1.13
tblVehicleEF	MHD	6.3860e-003	6.3710e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	8.3900e-004	8.8000e-004

tblVehicleEF	MHD	5.9090e-003	6.5420e-003
tblVehicleEF	MHD	0.13	0.15
tblVehicleEF	MHD	0.17	0.17
tblVehicleEF	MHD	3.0520e-003	3.3280e-003
tblVehicleEF	MHD	0.19	0.21
tblVehicleEF	MHD	0.54	0.60
tblVehicleEF	MHD	1.08	1.21
tblVehicleEF	MHD	8.1270e-003	8.1190e-003
tblVehicleEF	MHD	6.5040e-003	7.0330e-003
tblVehicleEF	MHD	2.57	2.55
tblVehicleEF	MHD	0.96	1.10
tblVehicleEF	MHD	27.65	29.89
tblVehicleEF	MHD	542.26	549.68
tblVehicleEF	MHD	1,035.67	1,054.12
tblVehicleEF	MHD	53.55	55.81
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	5.28	5.60
tblVehicleEF	MHD	2.74	3.14
tblVehicleEF	MHD	2.14	2.28
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.12	0.12
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	0.07	0.08
tblVehicleEF	MHD	2.5830e-003	3.1800e-003
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.05	0.05
tblVehicleEF	MHD	2.8580e-003	2.8590e-003
tblVehicleEF	MHD	0.06	0.07

tblVehicleEF	MHD	2.2680e-003	2.7450e-003
tblVehicleEF	MHD	9.1100e-004	9.6400e-004
tblVehicleEF	MHD	0.13	0.15
tblVehicleEF	MHD	0.17	0.17
tblVehicleEF	MHD	5.0300e-004	5.1900e-004
tblVehicleEF	MHD	0.17	0.18
tblVehicleEF	MHD	0.62	0.69
tblVehicleEF	MHD	1.52	1.72
tblVehicleEF	MHD	5.5330e-003	5.5200e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	1.0540e-003	1.1100e-003
tblVehicleEF	MHD	9.1100e-004	9.6400e-004
tblVehicleEF	MHD	0.13	0.15
tblVehicleEF	MHD	0.20	0.20
tblVehicleEF	MHD	5.0300e-004	5.1900e-004
tblVehicleEF	MHD	0.19	0.21
tblVehicleEF	MHD	0.62	0.69
tblVehicleEF	MHD	1.63	1.84
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	3.0200e-003	3.0210e-003
tblVehicleEF	OBUS	2.48	2.37
tblVehicleEF	OBUS	1.44	1.58
tblVehicleEF	OBUS	12.31	12.94
tblVehicleEF	OBUS	554.85	563.74
tblVehicleEF	OBUS	1,086.28	1,101.62
tblVehicleEF	OBUS	34.21	34.87
tblVehicleEF	OBUS	2.0890e-003	2.0870e-003
tblVehicleEF	OBUS	5.30	5.55

tblVehicleEF	OBUS	3.32	3.75
tblVehicleEF	OBUS	1.61	1.69
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.09	0.09
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	6.8600e-004	7.6100e-004
tblVehicleEF	OBUS	9.4330e-003	9.6700e-003
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	2.6160e-003	2.6100e-003
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	6.2500e-004	6.8900e-004
tblVehicleEF	OBUS	6.7100e-004	6.6600e-004
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.42	0.40
tblVehicleEF	OBUS	3.2600e-004	3.1800e-004
tblVehicleEF	OBUS	0.16	0.17
tblVehicleEF	OBUS	0.28	0.28
tblVehicleEF	OBUS	0.72	0.75
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	5.8100e-004	5.9300e-004
tblVehicleEF	OBUS	6.7100e-004	6.6600e-004
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.48	0.46
tblVehicleEF	OBUS	3.2600e-004	3.1800e-004
tblVehicleEF	OBUS	0.19	0.20
tblVehicleEF	OBUS	0.28	0.28
tblVehicleEF	OBUS	0.77	0.81

tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	3.0200e-003	3.0210e-003
tblVehicleEF	OBUS	1.80	1.72
tblVehicleEF	OBUS	1.47	1.62
tblVehicleEF	OBUS	8.51	8.96
tblVehicleEF	OBUS	587.81	597.23
tblVehicleEF	OBUS	1,086.28	1,101.62
tblVehicleEF	OBUS	34.21	34.87
tblVehicleEF	OBUS	2.0890e-003	2.0870e-003
tblVehicleEF	OBUS	5.47	5.73
tblVehicleEF	OBUS	3.16	3.57
tblVehicleEF	OBUS	1.50	1.57
tblVehicleEF	OBUS	8.6440e-003	8.8610e-003
tblVehicleEF	OBUS	0.09	0.09
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	6.8600e-004	7.6100e-004
tblVehicleEF	OBUS	7.9520e-003	8.1520e-003
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	2.6160e-003	2.6100e-003
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	6.2500e-004	6.8900e-004
tblVehicleEF	OBUS	1.5590e-003	1.5630e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.40	0.38
tblVehicleEF	OBUS	7.2100e-004	7.1500e-004
tblVehicleEF	OBUS	0.16	0.17
tblVehicleEF	OBUS	0.28	0.27

tblVehicleEF	OBUS	0.58	0.61
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	5.1700e-004	5.2600e-004
tblVehicleEF	OBUS	1.5590e-003	1.5630e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.45	0.43
tblVehicleEF	OBUS	7.2100e-004	7.1500e-004
tblVehicleEF	OBUS	0.19	0.20
tblVehicleEF	OBUS	0.28	0.27
tblVehicleEF	OBUS	0.62	0.65
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	3.0200e-003	3.0210e-003
tblVehicleEF	OBUS	3.41	3.26
tblVehicleEF	OBUS	1.41	1.56
tblVehicleEF	OBUS	15.76	16.56
tblVehicleEF	OBUS	509.32	517.49
tblVehicleEF	OBUS	1,086.28	1,101.62
tblVehicleEF	OBUS	34.21	34.87
tblVehicleEF	OBUS	2.0890e-003	2.0870e-003
tblVehicleEF	OBUS	5.06	5.30
tblVehicleEF	OBUS	3.39	3.83
tblVehicleEF	OBUS	1.70	1.78
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.09	0.09
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	6.8600e-004	7.6100e-004
tblVehicleEF	OBUS	0.01	0.01

tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	2.6160e-003	2.6100e-003
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	6.2500e-004	6.8900e-004
tblVehicleEF	OBUS	3.3300e-004	3.2400e-004
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.46	0.44
tblVehicleEF	OBUS	1.5500e-004	1.4900e-004
tblVehicleEF	OBUS	0.16	0.17
tblVehicleEF	OBUS	0.31	0.31
tblVehicleEF	OBUS	0.83	0.88
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	6.3900e-004	6.5400e-004
tblVehicleEF	OBUS	3.3300e-004	3.2400e-004
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.52	0.50
tblVehicleEF	OBUS	1.5500e-004	1.4900e-004
tblVehicleEF	OBUS	0.19	0.20
tblVehicleEF	OBUS	0.31	0.31
tblVehicleEF	OBUS	0.89	0.94
tblVehicleEF	SBUS	4.3220e-003	5.4440e-003
tblVehicleEF	SBUS	5.7290e-003	8.4130e-003
tblVehicleEF	SBUS	0.99	1.07
tblVehicleEF	SBUS	3.70	4.54
tblVehicleEF	SBUS	36.11	37.34
tblVehicleEF	SBUS	563.29	562.55
tblVehicleEF	SBUS	1,103.87	1,125.78
tblVehicleEF	SBUS	120.69	123.23

tblVehicleEF	SBUS	6.7800e-004	6.8800e-004
tblVehicleEF	SBUS	7.75	8.05
tblVehicleEF	SBUS	7.81	8.65
tblVehicleEF	SBUS	2.68	2.73
tblVehicleEF	SBUS	0.01	0.03
tblVehicleEF	SBUS	0.60	0.60
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.05	0.09
tblVehicleEF	SBUS	4.6230e-003	5.1050e-003
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	0.26	0.26
tblVehicleEF	SBUS	2.7940e-003	2.7970e-003
tblVehicleEF	SBUS	0.05	0.09
tblVehicleEF	SBUS	4.2030e-003	4.5940e-003
tblVehicleEF	SBUS	7.0380e-003	7.5200e-003
tblVehicleEF	SBUS	0.20	0.21
tblVehicleEF	SBUS	0.09	0.12
tblVehicleEF	SBUS	2.6490e-003	2.7630e-003
tblVehicleEF	SBUS	0.34	0.42
tblVehicleEF	SBUS	1.63	1.66
tblVehicleEF	SBUS	2.35	2.46
tblVehicleEF	SBUS	5.7480e-003	5.6490e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	1.9290e-003	1.9590e-003
tblVehicleEF	SBUS	7.0380e-003	7.5200e-003
tblVehicleEF	SBUS	0.20	0.21
tblVehicleEF	SBUS	0.11	0.13
tblVehicleEF	SBUS	2.6490e-003	2.7630e-003

tblVehicleEF	SBUS	0.37	0.47
tblVehicleEF	SBUS	1.63	1.66
tblVehicleEF	SBUS	2.51	2.63
tblVehicleEF	SBUS	4.0730e-003	5.1310e-003
tblVehicleEF	SBUS	5.7290e-003	8.4130e-003
tblVehicleEF	SBUS	0.72	0.78
tblVehicleEF	SBUS	3.71	4.50
tblVehicleEF	SBUS	28.93	29.98
tblVehicleEF	SBUS	596.75	595.97
tblVehicleEF	SBUS	1,103.87	1,125.78
tblVehicleEF	SBUS	120.69	123.23
tblVehicleEF	SBUS	6.7800e-004	6.8800e-004
tblVehicleEF	SBUS	8.00	8.31
tblVehicleEF	SBUS	7.47	8.28
tblVehicleEF	SBUS	2.48	2.53
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	0.60	0.60
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.05	0.09
tblVehicleEF	SBUS	4.6230e-003	5.1050e-003
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	0.26	0.26
tblVehicleEF	SBUS	2.7940e-003	2.7970e-003
tblVehicleEF	SBUS	0.05	0.09
tblVehicleEF	SBUS	4.2030e-003	4.5940e-003
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.21	0.22
tblVehicleEF	SBUS	0.09	0.11

tblVehicleEF	SBUS	6.3130e-003	6.7890e-003
tblVehicleEF	SBUS	0.34	0.43
tblVehicleEF	SBUS	1.43	1.46
tblVehicleEF	SBUS	2.04	2.13
tblVehicleEF	SBUS	6.0890e-003	5.9850e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	1.8070e-003	1.8330e-003
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.21	0.22
tblVehicleEF	SBUS	0.10	0.13
tblVehicleEF	SBUS	6.3130e-003	6.7890e-003
tblVehicleEF	SBUS	0.38	0.48
tblVehicleEF	SBUS	1.43	1.46
tblVehicleEF	SBUS	2.18	2.28
tblVehicleEF	SBUS	4.6660e-003	5.8770e-003
tblVehicleEF	SBUS	5.7290e-003	8.4130e-003
tblVehicleEF	SBUS	1.37	1.47
tblVehicleEF	SBUS	3.77	4.72
tblVehicleEF	SBUS	43.11	44.53
tblVehicleEF	SBUS	517.07	516.39
tblVehicleEF	SBUS	1,103.87	1,125.78
tblVehicleEF	SBUS	120.69	123.23
tblVehicleEF	SBUS	6.7800e-004	6.8800e-004
tblVehicleEF	SBUS	7.40	7.69
tblVehicleEF	SBUS	7.96	8.82
tblVehicleEF	SBUS	2.85	2.90
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	0.60	0.60

tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.05	0.09
tblVehicleEF	SBUS	4.6230e-003	5.1050e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	0.26	0.26
tblVehicleEF	SBUS	2.7940e-003	2.7970e-003
tblVehicleEF	SBUS	0.05	0.09
tblVehicleEF	SBUS	4.2030e-003	4.5940e-003
tblVehicleEF	SBUS	2.6990e-003	2.7080e-003
tblVehicleEF	SBUS	0.23	0.24
tblVehicleEF	SBUS	0.10	0.13
tblVehicleEF	SBUS	1.1310e-003	1.1260e-003
tblVehicleEF	SBUS	0.33	0.43
tblVehicleEF	SBUS	2.03	2.07
tblVehicleEF	SBUS	2.62	2.76
tblVehicleEF	SBUS	5.2760e-003	5.1860e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	2.0480e-003	2.0810e-003
tblVehicleEF	SBUS	2.6990e-003	2.7080e-003
tblVehicleEF	SBUS	0.23	0.24
tblVehicleEF	SBUS	0.11	0.14
tblVehicleEF	SBUS	1.1310e-003	1.1260e-003
tblVehicleEF	SBUS	0.37	0.48
tblVehicleEF	SBUS	2.03	2.07
tblVehicleEF	SBUS	2.80	2.95
tblVehicleEF	UBUS	4.85	4.99
tblVehicleEF	UBUS	8.43	8.69
tblVehicleEF	UBUS	2,184.56	2,229.85

tblVehicleEF	UBUS	17.26	17.65
tblVehicleEF	UBUS	3.2700e-003	3.2790e-003
tblVehicleEF	UBUS	13.28	13.67
tblVehicleEF	UBUS	0.84	0.86
tblVehicleEF	UBUS	0.76	0.76
tblVehicleEF	UBUS	0.23	0.23
tblVehicleEF	UBUS	6.4100e-004	6.6200e-004
tblVehicleEF	UBUS	0.33	0.33
tblVehicleEF	UBUS	0.21	0.21
tblVehicleEF	UBUS	5.6400e-004	5.8200e-004
tblVehicleEF	UBUS	1.5060e-003	1.5330e-003
tblVehicleEF	UBUS	0.07	0.07
tblVehicleEF	UBUS	7.5300e-004	7.6500e-004
tblVehicleEF	UBUS	0.78	0.80
tblVehicleEF	UBUS	0.48	0.48
tblVehicleEF	UBUS	0.60	0.61
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	3.3500e-004	3.4100e-004
tblVehicleEF	UBUS	1.5060e-003	1.5330e-003
tblVehicleEF	UBUS	0.07	0.07
tblVehicleEF	UBUS	7.5300e-004	7.6500e-004
tblVehicleEF	UBUS	0.87	0.89
tblVehicleEF	UBUS	0.48	0.48
tblVehicleEF	UBUS	0.64	0.65
tblVehicleEF	UBUS	4.81	4.95
tblVehicleEF	UBUS	6.28	6.48
tblVehicleEF	UBUS	2,184.56	2,229.85
tblVehicleEF	UBUS	17.26	17.65

tblVehicleEF	UBUS	3.2700e-003	3.2790e-003
tblVehicleEF	UBUS	12.72	13.09
tblVehicleEF	UBUS	0.78	0.80
tblVehicleEF	UBUS	0.76	0.76
tblVehicleEF	UBUS	0.23	0.23
tblVehicleEF	UBUS	6.4100e-004	6.6200e-004
tblVehicleEF	UBUS	0.33	0.33
tblVehicleEF	UBUS	0.21	0.21
tblVehicleEF	UBUS	5.6400e-004	5.8200e-004
tblVehicleEF	UBUS	3.6500e-003	3.7310e-003
tblVehicleEF	UBUS	0.08	0.08
tblVehicleEF	UBUS	1.7760e-003	1.8180e-003
tblVehicleEF	UBUS	0.79	0.81
tblVehicleEF	UBUS	0.44	0.44
tblVehicleEF	UBUS	0.49	0.50
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	2.9800e-004	3.0300e-004
tblVehicleEF	UBUS	3.6500e-003	3.7310e-003
tblVehicleEF	UBUS	0.08	0.08
tblVehicleEF	UBUS	1.7760e-003	1.8180e-003
tblVehicleEF	UBUS	0.88	0.90
tblVehicleEF	UBUS	0.44	0.44
tblVehicleEF	UBUS	0.52	0.54
tblVehicleEF	UBUS	4.89	5.04
tblVehicleEF	UBUS	10.42	10.74
tblVehicleEF	UBUS	2,184.56	2,229.85
tblVehicleEF	UBUS	17.26	17.65
tblVehicleEF	UBUS	3.2700e-003	3.2790e-003

tblVehicleEF	UBUS	13.49	13.89
tblVehicleEF	UBUS	0.89	0.91
tblVehicleEF	UBUS	0.76	0.76
tblVehicleEF	UBUS	0.23	0.23
tblVehicleEF	UBUS	6.4100e-004	6.6200e-004
tblVehicleEF	UBUS	0.33	0.33
tblVehicleEF	UBUS	0.21	0.21
tblVehicleEF	UBUS	5.6400e-004	5.8200e-004
tblVehicleEF	UBUS	6.4600e-004	6.5200e-004
tblVehicleEF	UBUS	0.09	0.09
tblVehicleEF	UBUS	2.8000e-004	2.8100e-004
tblVehicleEF	UBUS	0.77	0.79
tblVehicleEF	UBUS	0.58	0.58
tblVehicleEF	UBUS	0.69	0.71
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	3.7000e-004	3.7600e-004
tblVehicleEF	UBUS	6.4600e-004	6.5200e-004
tblVehicleEF	UBUS	0.09	0.09
tblVehicleEF	UBUS	2.8000e-004	2.8100e-004
tblVehicleEF	UBUS	0.86	0.88
tblVehicleEF	UBUS	0.58	0.58
tblVehicleEF	UBUS	0.74	0.75
tblVehicleTrips	ST_TR	0.00	6.89
tblWater	IndoorWaterUseRate	1,237,260.27	600,000.00
tblWater	OutdoorWaterUseRate	3,181,526.40	50,000.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2016	0.3912	4.0723	2.7319	3.8200e-003	0.4737	0.2090	0.6828	0.2361	0.1933	0.4294	0.0000	351.4493	351.4493	0.0917	0.0000	353.3747
2017	0.9349	1.9930	1.5647	2.4300e-003	0.0272	0.1210	0.1482	7.3300e-003	0.1131	0.1204	0.0000	215.9007	215.9007	0.0488	0.0000	216.9244
Total	**1.3261**	**6.0653**	**4.2967**	**6.2500e-003**	**0.5010**	**0.3300**	**0.8310**	**0.2434**	**0.3064**	**0.5499**	**0.0000**	**567.3501**	**567.3501**	**0.1404**	**0.0000**	**570.2991**

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					
2016	0.2244	3.3062	2.5118	3.8200e-003	0.2255	0.1308	0.3564	0.1096	0.1242	0.2337	0.0000	351.4490	351.4490	0.0917	0.0000	353.3744
2017	0.8795	1.9243	1.6129	2.4300e-003	0.0272	0.0971	0.1244	7.3300e-003	0.0926	0.0999	0.0000	215.9005	215.9005	0.0488	0.0000	216.9242
Total	**1.1039**	**5.2305**	**4.1246**	**6.2500e-003**	**0.2528**	**0.2280**	**0.4807**	**0.1169**	**0.2167**	**0.3336**	**0.0000**	**567.3495**	**567.3495**	**0.1404**	**0.0000**	**570.2986**

	ROG	**NOx**	**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	**16.76**	**13.76**	**4.00**	**0.00**	**49.55**	**30.92**	**42.15**	**51.99**	**29.27**	**39.33**	**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	0.3441	1.0000e-005	1.0200e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.9700e-003	1.9700e-003	1.0000e-005	0.0000	2.0800e-003
Energy	2.4700e-003	0.0224	0.0188	1.3000e-004		1.7000e-003	1.7000e-003		1.7000e-003	1.7000e-003	0.0000	189.4029	189.4029	7.9300e-003	1.9900e-003	190.1866
Mobile	0.4356	1.1921	4.9297	0.0108	0.7624	0.0158	0.7782	0.2046	0.0146	0.2192	0.0000	833.8657	833.8657	0.0338	0.0000	834.5764
Waste						0.0000	0.0000		0.0000	0.0000	3.0449	0.0000	3.0449	0.1800	0.0000	6.8237
Water						0.0000	0.0000		0.0000	0.0000	0.1904	0.9954	1.1857	0.0196	4.7000e-004	1.7433
Total	**0.7822**	**1.2145**	**4.9496**	**0.0110**	**0.7624**	**0.0175**	**0.7799**	**0.2046**	**0.0163**	**0.2209**	**3.2352**	**1,024.2660**	**1,027.5012**	**0.2413**	**2.4600e-003**	**1,033.3321**

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	0.3441	1.0000e-005	1.0200e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.9700e-003	1.9700e-003	1.0000e-005	0.0000	2.0800e-003
Energy	2.4700e-003	0.0224	0.0188	1.3000e-004		1.7000e-003	1.7000e-003		1.7000e-003	1.7000e-003	0.0000	189.4029	189.4029	7.9300e-003	1.9900e-003	190.1866
Mobile	0.4356	1.1921	4.9297	0.0108	0.7624	0.0158	0.7782	0.2046	0.0146	0.2192	0.0000	833.8657	833.8657	0.0338	0.0000	834.5764
Waste						0.0000	0.0000		0.0000	0.0000	3.0449	0.0000	3.0449	0.1800	0.0000	6.8237
Water						0.0000	0.0000		0.0000	0.0000	0.1904	0.9954	1.1857	0.0196	4.7000e-004	1.7429
Total	**0.7822**	**1.2145**	**4.9496**	**0.0110**	**0.7624**	**0.0175**	**0.7799**	**0.2046**	**0.0163**	**0.2209**	**3.2352**	**1,024.2660**	**1,027.5012**	**0.2413**	**2.4600e-003**	**1,033.3317**

	ROG	NOx	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**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Existing Bldg Demo	Demolition	4/4/2016	6/17/2016	5	55	Demolish existing buildings, remove existing hardscape
2	Existing Trees/Prkg/Hardscape Removal	Site Preparation	4/4/2016	6/17/2016	5	55	Hardscape and landscape removal
3	New Bldg Foundations/Ungrd Wrk	Grading	6/20/2016	12/23/2016	5	135	Building foundations and underground work
4	New Bldg Deck Slab / Steel Work	Building Construction	12/26/2016	2/28/2017	5	47	Structural deck slab and steel erection
5	New Bldg Finishing	Building Construction	3/1/2017	5/31/2017	5	66	Walls, roofing, and exterior finish
6	New Site Paving	Paving	5/29/2017	8/25/2017	5	65	Underground utilities / paving
7	New Building Arch. Coating	Architectural Coating	8/7/2017	8/31/2017	5	19	Building Coatings

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: 90,900; Non-Residential Outdoor: 30,300 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Existing Bldg Demo	Concrete/Industrial Saws	1	8.00	81	0.73
Existing Bldg Demo	Excavators	1	8.00	162	0.38
Existing Bldg Demo	Rubber Tired Dozers	1	8.00	255	0.40
Existing Bldg Demo	Rubber Tired Loaders	1	8.00	199	0.36
Existing Trees/Prkg/Hardscape Removal	Off-Highway Trucks	1	8.00	400	0.38
Existing Trees/Prkg/Hardscape Removal	Rubber Tired Loaders	1	8.00	255	0.40
Existing Trees/Prkg/Hardscape Removal	Scrapers	1	8.00	97	0.37
New Bldg Foundations/Ungrd Wrk	Cement and Mortar Mixers	2	8.00	9	0.56
New Bldg Foundations/Ungrd Wrk	Excavators	1	8.00	162	0.38

New Bldg Foundations/Ungrd Wrk	Graders	1	8.00	174	0.41
New Bldg Foundations/Ungrd Wrk	Rubber Tired Dozers	1	8.00	255	0.40
New Bldg Foundations/Ungrd Wrk	Tractors/Loaders/Backhoes	2	8.00	97	0.37
New Bldg Deck Slab / Steel Work	Cranes	1	7.00	226	0.29
New Bldg Deck Slab / Steel Work	Forklifts	2	8.00	89	0.20
New Bldg Deck Slab / Steel Work	Generator Sets	1	8.00	84	0.74
New Bldg Deck Slab / Steel Work	Other Material Handling Equipment	2	8.00	167	0.40
New Bldg Deck Slab / Steel Work	Tractors/Loaders/Backhoes	2	7.00	97	0.37
New Bldg Deck Slab / Steel Work	Welders	1	8.00	46	0.45
New Bldg Finishing	Cranes	1	7.00	226	0.29
New Bldg Finishing	Forklifts	1	8.00	89	0.20
New Bldg Finishing	Generator Sets	1	8.00	84	0.74
New Bldg Finishing	Other Material Handling Equipment	1	8.00	46	0.45
New Bldg Finishing	Tractors/Loaders/Backhoes	1	7.00	97	0.37
New Site Paving	Excavators	1	8.00	162	0.38
New Site Paving	Pavers	1	8.00	125	0.42
New Site Paving	Paving Equipment	1	8.00	130	0.36
New Site Paving	Rollers	1	8.00	80	0.38
New Site Paving	Trenchers	1	8.00	80	0.50
New Building Arch. Coating	Air Compressors	2	6.00	78	0.48

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
Existing Bldg Demo	4	10.00	0.00	384.00	12.40	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Existing Trees/Prkg/Hardscape	3	8.00	0.00	0.00	12.40	6.60	20.00	LD_Mix	HDT_Mix	HHDT
New Bldg Foundations/Ungrd Wr	7	20.00	0.00	175.00	12.40	6.60	20.00	LD_Mix	HDT_Mix	HHDT
New Bldg Deck Slab / Steel Work	9	34.00	13.00	0.00	12.40	6.60	20.00	LD_Mix	HDT_Mix	HHDT
New Bldg Finishing	5	34.00	13.00	0.00	12.40	6.60	20.00	LD_Mix	HDT_Mix	HHDT
New Site Paving	5	20.00	0.00	0.00	12.40	6.60	20.00	LD_Mix	HDT_Mix	HHDT
New Building Arch. Coating	2	7.00	0.00	0.00	12.40	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Replace Ground Cover

Water Exposed Area

Clean Paved Roads

3.2 Existing Bldg Demo - 2016

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					0.0416	0.0000	0.0416	6.3000e-003	0.0000	6.3000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0762	0.8081	0.5369	7.3000e-004		0.0394	0.0394		0.0370	0.0370	0.0000	67.4181	67.4181	0.0173	0.0000	67.7815
Total	**0.0762**	**0.8081**	**0.5369**	**7.3000e-004**	**0.0416**	**0.0394**	**0.0810**	**6.3000e-003**	**0.0370**	**0.0433**	**0.0000**	**67.4181**	**67.4181**	**0.0173**	**0.0000**	**67.7815**

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	4.5400e-003	0.0575	0.0496	1.4000e-004	3.2300e-003	7.5000e-004	3.9800e-003	8.9000e-004	6.9000e-004	1.5800e-003	0.0000	13.1716	13.1716	1.0000e-004	0.0000	13.1736
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	1.0400e-003	1.5100e-003	0.0146	3.0000e-005	2.4900e-003	2.0000e-005	2.5200e-003	6.6000e-004	2.0000e-005	6.8000e-004	0.0000	2.2638	2.2638	1.2000e-004	0.0000	2.2664
Total	**5.5800e-003**	**0.0590**	**0.0643**	**1.7000e-004**	**5.7200e-003**	**7.7000e-004**	**6.5000e-003**	**1.5500e-003**	**7.1000e-004**	**2.2600e-003**	**0.0000**	**15.4353**	**15.4353**	**2.2000e-004**	**0.0000**	**15.4400**

3.2 Existing Bldg Demo - 2016

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					0.0187	0.0000	0.0187	2.8300e-003	0.0000	2.8300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0445	0.7133	0.4846	7.3000e-004		0.0264	0.0264		0.0251	0.0251	0.0000	67.4180	67.4180	0.0173	0.0000	67.7814
Total	**0.0445**	**0.7133**	**0.4846**	**7.3000e-004**	**0.0187**	**0.0264**	**0.0451**	**2.8300e-003**	**0.0251**	**0.0280**	**0.0000**	**67.4180**	**67.4180**	**0.0173**	**0.0000**	**67.7814**

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	4.5400e-003	0.0575	0.0496	1.4000e-004	3.2300e-003	7.5000e-004	3.9800e-003	8.9000e-004	6.9000e-004	1.5800e-003	0.0000	13.1716	13.1716	1.0000e-004	0.0000	13.1736
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	1.0400e-003	1.5100e-003	0.0146	3.0000e-005	2.4900e-003	2.0000e-005	2.5200e-003	6.6000e-004	2.0000e-005	6.8000e-004	0.0000	2.2638	2.2638	1.2000e-004	0.0000	2.2664
Total	**5.5800e-003**	**0.0590**	**0.0643**	**1.7000e-004**	**5.7200e-003**	**7.7000e-004**	**6.5000e-003**	**1.5500e-003**	**7.1000e-004**	**2.2600e-003**	**0.0000**	**15.4353**	**15.4353**	**2.2000e-004**	**0.0000**	**15.4400**

3.3 Existing Trees/Prkg/Hardscape Removal - 2016

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					2.3900e-003	0.0000	2.3900e-003	2.6000e-004	0.0000	2.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0582	0.6517	0.3182	6.9000e-004		0.0293	0.0293		0.0270	0.0270	0.0000	64.7573	64.7573	0.0195	0.0000	65.1675
Total	**0.0582**	**0.6517**	**0.3182**	**6.9000e-004**	**2.3900e-003**	**0.0293**	**0.0317**	**2.6000e-004**	**0.0270**	**0.0272**	**0.0000**	**64.7573**	**64.7573**	**0.0195**	**0.0000**	**65.1675**

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	8.3000e-004	1.2100e-003	0.0117	2.0000e-005	2.0000e-003	2.0000e-005	2.0100e-003	5.3000e-004	2.0000e-005	5.5000e-004	0.0000	1.8110	1.8110	1.0000e-004	0.0000	1.8131
Total	**8.3000e-004**	**1.2100e-003**	**0.0117**	**2.0000e-005**	**2.0000e-003**	**2.0000e-005**	**2.0100e-003**	**5.3000e-004**	**2.0000e-005**	**5.5000e-004**	**0.0000**	**1.8110**	**1.8110**	**1.0000e-004**	**0.0000**	**1.8131**

3.3 Existing Trees/Prkg/Hardscape Removal - 2016

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					1.0700e-003	0.0000	1.0700e-003	1.2000e-004	0.0000	1.2000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0255	0.5792	0.3737	6.9000e-004		0.0163	0.0163		0.0160	0.0160	0.0000	64.7572	64.7572	0.0195	0.0000	65.1674
Total	**0.0255**	**0.5792**	**0.3737**	**6.9000e-004**	**1.0700e-003**	**0.0163**	**0.0174**	**1.2000e-004**	**0.0160**	**0.0161**	**0.0000**	**64.7572**	**64.7572**	**0.0195**	**0.0000**	**65.1674**

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	8.3000e-004	1.2100e-003	0.0117	2.0000e-005	2.0000e-003	2.0000e-005	2.0100e-003	5.3000e-004	2.0000e-005	5.5000e-004	0.0000	1.8110	1.8110	1.0000e-004	0.0000	1.8131
Total	**8.3000e-004**	**1.2100e-003**	**0.0117**	**2.0000e-005**	**2.0000e-003**	**2.0000e-005**	**2.0100e-003**	**5.3000e-004**	**2.0000e-005**	**5.5000e-004**	**0.0000**	**1.8110**	**1.8110**	**1.0000e-004**	**0.0000**	**1.8131**

3.4 New Bldg Foundations/Ungrd Wrk - 2016

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					0.4074	0.0000	0.4074	0.2235	0.0000	0.2235	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2325	2.4253	1.6391	1.8900e-003		0.1335	0.1335		0.1230	0.1230	0.0000	175.8144	175.8144	0.0518	0.0000	176.9024
Total	**0.2325**	**2.4253**	**1.6391**	**1.8900e-003**	**0.4074**	**0.1335**	**0.5409**	**0.2235**	**0.1230**	**0.3465**	**0.0000**	**175.8144**	**175.8144**	**0.0518**	**0.0000**	**176.9024**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.0700e-003	0.0262	0.0226	7.0000e-005	1.4700e-003	3.4000e-004	1.8100e-003	4.0000e-004	3.1000e-004	7.2000e-004	0.0000	6.0027	6.0027	4.0000e-005	0.0000	6.0036
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	5.1200e-003	7.4200e-003	0.0719	1.5000e-004	0.0123	1.0000e-004	0.0124	3.2600e-003	9.0000e-005	3.3500e-003	0.0000	11.1131	11.1131	6.1000e-004	0.0000	11.1260
Total	**7.1900e-003**	**0.0336**	**0.0945**	**2.2000e-004**	**0.0137**	**4.4000e-004**	**0.0142**	**3.6600e-003**	**4.0000e-004**	**4.0700e-003**	**0.0000**	**17.1158**	**17.1158**	**6.5000e-004**	**0.0000**	**17.1296**

3.4 New Bldg Foundations/Ungrd Wrk - 2016

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					0.1833	0.0000	0.1833	0.1006	0.0000	0.1006	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1321	1.8331	1.4151	1.8900e-003		0.0823	0.0823		0.0776	0.0776	0.0000	175.8142	175.8142	0.0518	0.0000	176.9022
Total	**0.1321**	**1.8331**	**1.4151**	**1.8900e-003**	**0.1833**	**0.0823**	**0.2656**	**0.1006**	**0.0776**	**0.1782**	**0.0000**	**175.8142**	**175.8142**	**0.0518**	**0.0000**	**176.9022**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.0700e-003	0.0262	0.0226	7.0000e-005	1.4700e-003	3.4000e-004	1.8100e-003	4.0000e-004	3.1000e-004	7.2000e-004	0.0000	6.0027	6.0027	4.0000e-005	0.0000	6.0036
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	5.1200e-003	7.4200e-003	0.0719	1.5000e-004	0.0123	1.0000e-004	0.0124	3.2600e-003	9.0000e-005	3.3500e-003	0.0000	11.1131	11.1131	6.1000e-004	0.0000	11.1260
Total	**7.1900e-003**	**0.0336**	**0.0945**	**2.2000e-004**	**0.0137**	**4.4000e-004**	**0.0142**	**3.6600e-003**	**4.0000e-004**	**4.0700e-003**	**0.0000**	**17.1158**	**17.1158**	**6.5000e-004**	**0.0000**	**17.1296**

3.5 New Bldg Deck Slab / Steel Work - 2016

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	0.0101	0.0900	0.0580	9.0000e-005		5.6100e-003	5.6100e-003		5.2600e-003	5.2600e-003	0.0000	7.7573	7.7573	2.0200e-003	0.0000	7.7997
Total	**0.0101**	**0.0900**	**0.0580**	**9.0000e-005**		**5.6100e-003**	**5.6100e-003**		**5.2600e-003**	**5.2600e-003**	**0.0000**	**7.7573**	**7.7573**	**2.0200e-003**	**0.0000**	**7.7997**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.0000e-004	3.0100e-003	4.7400e-003	1.0000e-005	1.9000e-004	4.0000e-005	2.3000e-004	5.0000e-005	4.0000e-005	9.0000e-005	0.0000	0.6404	0.6404	1.0000e-005	0.0000	0.6405
Worker	3.2000e-004	4.7000e-004	4.5200e-003	1.0000e-005	7.7000e-004	1.0000e-005	7.8000e-004	2.1000e-004	1.0000e-005	2.1000e-004	0.0000	0.6997	0.6997	4.0000e-005	0.0000	0.7005
Total	**7.2000e-004**	**3.4800e-003**	**9.2600e-003**	**2.0000e-005**	**9.6000e-004**	**5.0000e-005**	**1.0100e-003**	**2.6000e-004**	**5.0000e-005**	**3.0000e-004**	**0.0000**	**1.3401**	**1.3401**	**5.0000e-005**	**0.0000**	**1.3410**

3.5 New Bldg Deck Slab / Steel Work - 2016

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	7.9600e-003	0.0833	0.0586	9.0000e-005		4.5600e-003	4.5600e-003		4.3200e-003	4.3200e-003	0.0000	7.7573	7.7573	2.0200e-003	0.0000	7.7997
Total	**7.9600e-003**	**0.0833**	**0.0586**	**9.0000e-005**		**4.5600e-003**	**4.5600e-003**		**4.3200e-003**	**4.3200e-003**	**0.0000**	**7.7573**	**7.7573**	**2.0200e-003**	**0.0000**	**7.7997**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.0000e-004	3.0100e-003	4.7400e-003	1.0000e-005	1.9000e-004	4.0000e-005	2.3000e-004	5.0000e-005	4.0000e-005	9.0000e-005	0.0000	0.6404	0.6404	1.0000e-005	0.0000	0.6405
Worker	3.2000e-004	4.7000e-004	4.5200e-003	1.0000e-005	7.7000e-004	1.0000e-005	7.8000e-004	2.1000e-004	1.0000e-005	2.1000e-004	0.0000	0.6997	0.6997	4.0000e-005	0.0000	0.7005
Total	**7.2000e-004**	**3.4800e-003**	**9.2600e-003**	**2.0000e-005**	**9.6000e-004**	**5.0000e-005**	**1.0100e-003**	**2.6000e-004**	**5.0000e-005**	**3.0000e-004**	**0.0000**	**1.3401**	**1.3401**	**5.0000e-005**	**0.0000**	**1.3410**

3.5 New Bldg Deck Slab / Steel Work - 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	0.0760	0.6823	0.4763	7.1000e-004		0.0418	0.0418		0.0392	0.0392	0.0000	64.3839	64.3839	0.0167	0.0000	64.7345
Total	**0.0760**	**0.6823**	**0.4763**	**7.1000e-004**		**0.0418**	**0.0418**		**0.0392**	**0.0392**	**0.0000**	**64.3839**	**64.3839**	**0.0167**	**0.0000**	**64.7345**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.0600e-003	0.0227	0.0374	6.0000e-005	1.5900e-003	3.2000e-004	1.9100e-003	4.6000e-004	2.9000e-004	7.5000e-004	0.0000	5.2881	5.2881	4.0000e-005	0.0000	5.2890
Worker	2.4000e-003	3.5100e-003	0.0338	8.0000e-005	6.4800e-003	5.0000e-005	6.5300e-003	1.7200e-003	5.0000e-005	1.7700e-003	0.0000	5.6538	5.6538	3.0000e-004	0.0000	5.6600
Total	**5.4600e-003**	**0.0262**	**0.0712**	**1.4000e-004**	**8.0700e-003**	**3.7000e-004**	**8.4400e-003**	**2.1800e-003**	**3.4000e-004**	**2.5200e-003**	**0.0000**	**10.9419**	**10.9419**	**3.4000e-004**	**0.0000**	**10.9490**

3.5 New Bldg Deck Slab / Steel Work - 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	0.0610	0.6534	0.4857	7.1000e-004		0.0348	0.0348		0.0331	0.0331	0.0000	64.3838	64.3838	0.0167	0.0000	64.7344
Total	**0.0610**	**0.6534**	**0.4857**	**7.1000e-004**		**0.0348**	**0.0348**		**0.0331**	**0.0331**	**0.0000**	**64.3838**	**64.3838**	**0.0167**	**0.0000**	**64.7344**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.0600e-003	0.0227	0.0374	6.0000e-005	1.5900e-003	3.2000e-004	1.9100e-003	4.6000e-004	2.9000e-004	7.5000e-004	0.0000	5.2881	5.2881	4.0000e-005	0.0000	5.2890
Worker	2.4000e-003	3.5100e-003	0.0338	8.0000e-005	6.4800e-003	5.0000e-005	6.5300e-003	1.7200e-003	5.0000e-005	1.7700e-003	0.0000	5.6538	5.6538	3.0000e-004	0.0000	5.6600
Total	**5.4600e-003**	**0.0262**	**0.0712**	**1.4000e-004**	**8.0700e-003**	**3.7000e-004**	**8.4400e-003**	**2.1800e-003**	**3.4000e-004**	**2.5200e-003**	**0.0000**	**10.9419**	**10.9419**	**3.4000e-004**	**0.0000**	**10.9490**

3.6 New Bldg Finishing - 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	0.0731	0.5848	0.3944	5.8000e-004		0.0380	0.0380		0.0357	0.0357	0.0000	52.8293	52.8293	0.0120	0.0000	53.0809
Total	**0.0731**	**0.5848**	**0.3944**	**5.8000e-004**		**0.0380**	**0.0380**		**0.0357**	**0.0357**	**0.0000**	**52.8293**	**52.8293**	**0.0120**	**0.0000**	**53.0809**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.8100e-003	0.0357	0.0588	9.0000e-005	2.5000e-003	5.0000e-004	3.0000e-003	7.2000e-004	4.6000e-004	1.1800e-003	0.0000	8.3099	8.3099	7.0000e-005	0.0000	8.3113
Worker	3.7700e-003	5.5200e-003	0.0531	1.2000e-004	0.0102	8.0000e-005	0.0103	2.7100e-003	7.0000e-005	2.7800e-003	0.0000	8.8845	8.8845	4.6000e-004	0.0000	8.8943
Total	**8.5800e-003**	**0.0412**	**0.1119**	**2.1000e-004**	**0.0127**	**5.8000e-004**	**0.0133**	**3.4300e-003**	**5.3000e-004**	**3.9600e-003**	**0.0000**	**17.1944**	**17.1944**	**5.3000e-004**	**0.0000**	**17.2056**

3.6 New Bldg Finishing - 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	0.0527	0.5476	0.3913	5.8000e-004		0.0304	0.0304		0.0289	0.0289	0.0000	52.8292	52.8292	0.0120	0.0000	53.0808
Total	**0.0527**	**0.5476**	**0.3913**	**5.8000e-004**		**0.0304**	**0.0304**		**0.0289**	**0.0289**	**0.0000**	**52.8292**	**52.8292**	**0.0120**	**0.0000**	**53.0808**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.8100e-003	0.0357	0.0588	9.0000e-005	2.5000e-003	5.0000e-004	3.0000e-003	7.2000e-004	4.6000e-004	1.1800e-003	0.0000	8.3099	8.3099	7.0000e-005	0.0000	8.3113
Worker	3.7700e-003	5.5200e-003	0.0531	1.2000e-004	0.0102	8.0000e-005	0.0103	2.7100e-003	7.0000e-005	2.7800e-003	0.0000	8.8845	8.8845	4.6000e-004	0.0000	8.8943
Total	**8.5800e-003**	**0.0412**	**0.1119**	**2.1000e-004**	**0.0127**	**5.8000e-004**	**0.0133**	**3.4300e-003**	**5.3000e-004**	**3.9600e-003**	**0.0000**	**17.1944**	**17.1944**	**5.3000e-004**	**0.0000**	**17.2056**

3.7 New Site Paving - 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	0.0602	0.6135	0.4415	6.5000e-004		0.0369	0.0369		0.0340	0.0340	0.0000	60.0265	60.0265	0.0184	0.0000	60.4128
Paving	5.9000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0608**	**0.6135**	**0.4415**	**6.5000e-004**		**0.0369**	**0.0369**		**0.0340**	**0.0340**	**0.0000**	**60.0265**	**60.0265**	**0.0184**	**0.0000**	**60.4128**

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	2.1900e-003	3.2000e-003	0.0308	7.0000e-005	5.9000e-003	5.0000e-005	5.9400e-003	1.5700e-003	4.0000e-005	1.6100e-003	0.0000	5.1470	5.1470	2.7000e-004	0.0000	5.1526
Total	**2.1900e-003**	**3.2000e-003**	**0.0308**	**7.0000e-005**	**5.9000e-003**	**5.0000e-005**	**5.9400e-003**	**1.5700e-003**	**4.0000e-005**	**1.6100e-003**	**0.0000**	**5.1470**	**5.1470**	**2.7000e-004**	**0.0000**	**5.1526**

3.7 New Site Paving - 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	0.0424	0.6093	0.4836	6.5000e-004		0.0284	0.0284		0.0271	0.0271	0.0000	60.0265	60.0265	0.0184	0.0000	60.4127
Paving	5.9000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0430**	**0.6093**	**0.4836**	**6.5000e-004**		**0.0284**	**0.0284**		**0.0271**	**0.0271**	**0.0000**	**60.0265**	**60.0265**	**0.0184**	**0.0000**	**60.4127**

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	2.1900e-003	3.2000e-003	0.0308	7.0000e-005	5.9000e-003	5.0000e-005	5.9400e-003	1.5700e-003	4.0000e-005	1.6100e-003	0.0000	5.1470	5.1470	2.7000e-004	0.0000	5.1526
Total	**2.1900e-003**	**3.2000e-003**	**0.0308**	**7.0000e-005**	**5.9000e-003**	**5.0000e-005**	**5.9400e-003**	**1.5700e-003**	**4.0000e-005**	**1.6100e-003**	**0.0000**	**5.1470**	**5.1470**	**2.7000e-004**	**0.0000**	**5.1526**

3.8 New Building Arch. Coating - 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					
Archit. Coating	0.7022					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.3100e-003	0.0415	0.0355	6.0000e-005		3.2900e-003	3.2900e-003		3.2900e-003	3.2900e-003	0.0000	4.8512	4.8512	5.1000e-004	0.0000	4.8619
Total	**0.7085**	**0.0415**	**0.0355**	**6.0000e-005**		**3.2900e-003**	**3.2900e-003**		**3.2900e-003**	**3.2900e-003**	**0.0000**	**4.8512**	**4.8512**	**5.1000e-004**	**0.0000**	**4.8619**

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	2.2000e-004	3.3000e-004	3.1500e-003	1.0000e-005	6.0000e-004	0.0000	6.1000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.5266	0.5266	3.0000e-005	0.0000	0.5272
Total	**2.2000e-004**	**3.3000e-004**	**3.1500e-003**	**1.0000e-005**	**6.0000e-004**	**0.0000**	**6.1000e-004**	**1.6000e-004**	**0.0000**	**1.6000e-004**	**0.0000**	**0.5266**	**0.5266**	**3.0000e-005**	**0.0000**	**0.5272**

3.8 New Building Arch. Coating - 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					
Archit. Coating	0.7022					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.2400e-003	0.0431	0.0352	6.0000e-005		2.5500e-003	2.5500e-003		2.5500e-003	2.5500e-003	0.0000	4.8512	4.8512	5.1000e-004	0.0000	4.8619
Total	**0.7064**	**0.0431**	**0.0352**	**6.0000e-005**		**2.5500e-003**	**2.5500e-003**		**2.5500e-003**	**2.5500e-003**	**0.0000**	**4.8512**	**4.8512**	**5.1000e-004**	**0.0000**	**4.8619**

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	2.2000e-004	3.3000e-004	3.1500e-003	1.0000e-005	6.0000e-004	0.0000	6.1000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.5266	0.5266	3.0000e-005	0.0000	0.5272
Total	**2.2000e-004**	**3.3000e-004**	**3.1500e-003**	**1.0000e-005**	**6.0000e-004**	**0.0000**	**6.1000e-004**	**1.6000e-004**	**0.0000**	**1.6000e-004**	**0.0000**	**0.5266**	**0.5266**	**3.0000e-005**	**0.0000**	**0.5272**

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	0.4356	1.1921	4.9297	0.0108	0.7624	0.0158	0.7782	0.2046	0.0146	0.2192	0.0000	833.8657	833.8657	0.0338	0.0000	834.5764
Unmitigated	0.4356	1.1921	4.9297	0.0108	0.7624	0.0158	0.7782	0.2046	0.0146	0.2192	0.0000	833.8657	833.8657	0.0338	0.0000	834.5764

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Junior High School	826.80	413.40	0.00	2,049,212	2,049,212
Parking Lot	0.00	0.00	0.00		
Total	826.80	413.40	0.00	2,049,212	2,049,212

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
Junior High School	14.70	6.60	6.60	72.80	22.20	5.00	63	25	12
Parking Lot	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
0.546114	0.062902	0.174648	0.122995	0.034055	0.004856	0.015640	0.024397	0.002087	0.003279	0.006673	0.000688	0.001667

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	165.0050	165.0050	7.4600e-003	1.5400e-003	165.6402
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	165.0050	165.0050	7.4600e-003	1.5400e-003	165.6402
NaturalGas Mitigated	2.4700e-003	0.0224	0.0188	1.3000e-004		1.7000e-003	1.7000e-003		1.7000e-003	1.7000e-003	0.0000	24.3979	24.3979	4.7000e-004	4.5000e-004	24.5464
NaturalGas Unmitigated	2.4700e-003	0.0224	0.0188	1.3000e-004		1.7000e-003	1.7000e-003		1.7000e-003	1.7000e-003	0.0000	24.3979	24.3979	4.7000e-004	4.5000e-004	24.5464

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					
Junior High School	457200	2.4700e-003	0.0224	0.0188	1.3000e-004		1.7000e-003	1.7000e-003		1.7000e-003	1.7000e-003	0.0000	24.3979	24.3979	4.7000e-004	4.5000e-004	24.5464
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**2.4700e-003**	**0.0224**	**0.0188**	**1.3000e-004**		**1.7000e-003**	**1.7000e-003**		**1.7000e-003**	**1.7000e-003**	**0.0000**	**24.3979**	**24.3979**	**4.7000e-004**	**4.5000e-004**	**24.5464**

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					
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Junior High School	457200	2.4700e-003	0.0224	0.0188	1.3000e-004		1.7000e-003	1.7000e-003		1.7000e-003	1.7000e-003	0.0000	24.3979	24.3979	4.7000e-004	4.5000e-004	24.5464
Total		**2.4700e-003**	**0.0224**	**0.0188**	**1.3000e-004**		**1.7000e-003**	**1.7000e-003**		**1.7000e-003**	**1.7000e-003**	**0.0000**	**24.3979**	**24.3979**	**4.7000e-004**	**4.5000e-004**	**24.5464**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Junior High School	549600	159.8849	7.2300e-003	1.5000e-003	160.5005
Parking Lot	17600	5.1200	2.3000e-004	5.0000e-005	5.1398
Total		**165.0050**	**7.4600e-003**	**1.5500e-003**	**165.6402**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Junior High School	549600	159.8849	7.2300e-003	1.5000e-003	160.5005
Parking Lot	17600	5.1200	2.3000e-004	5.0000e-005	5.1398
Total		**165.0050**	**7.4600e-003**	**1.5500e-003**	**165.6402**

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	0.3441	1.0000e-005	1.0200e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.9700e-003	1.9700e-003	1.0000e-005	0.0000	2.0800e-003
Unmitigated	0.3441	1.0000e-005	1.0200e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.9700e-003	1.9700e-003	1.0000e-005	0.0000	2.0800e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0316					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.3124					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-004	1.0000e-005	1.0200e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.9700e-003	1.9700e-003	1.0000e-005	0.0000	2.0800e-003
Total	**0.3441**	**1.0000e-005**	**1.0200e-003**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**1.9700e-003**	**1.9700e-003**	**1.0000e-005**	**0.0000**	**2.0800e-003**

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	0.0316					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.3124					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-004	1.0000e-005	1.0200e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.9700e-003	1.9700e-003	1.0000e-005	0.0000	2.0800e-003
Total	**0.3441**	**1.0000e-005**	**1.0200e-003**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**1.9700e-003**	**1.9700e-003**	**1.0000e-005**	**0.0000**	**2.0800e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	1.1857	0.0196	4.7000e-004	1.7429
Unmitigated	1.1857	0.0196	4.7000e-004	1.7433

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Junior High School	0.6 / 0.05	1.1857	0.0196	4.7000e-004	1.7433
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**1.1857**	**0.0196**	**4.7000e-004**	**1.7433**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Junior High School	0.6 / 0.05	1.1857	0.0196	4.7000e-004	1.7429
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**1.1857**	**0.0196**	**4.7000e-004**	**1.7429**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	3.0449	0.1800	0.0000	6.8237
Unmitigated	3.0449	0.1800	0.0000	6.8237

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Junior High School	15	3.0449	0.1800	0.0000	6.8237
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		**3.0449**	**0.1800**	**0.0000**	**6.8237**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Junior High School	15	3.0449	0.1800	0.0000	6.8237
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		**3.0449**	**0.1800**	**0.0000**	**6.8237**

9.0 Operational Offroad

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

10.0 Vegetation

Crystal Springs Upland School District Belmont Middle School Project
Maximum DPM Cancer Risk Calcuations from CSUS School Constrution

Cancer Risk (per million) = CPF x ID x CRAF x ED/AT x FAH x 10^6

Where:
- CPF: Cancer Potency Factor $(mg/kg\text{-}day)^{-1}$
- ID: Inhalation Dose
- CRAF Cancer Risk Adjustment Factor for specified receptor type
- ED: Exposure Duration (years)
- AT: Averaging Time for lifetime cancer risks
- FAH: Fraction of daily time spent at home / school

Inhalation Dose = C_{air} x DBR x A x (EF/365) x 10^-6

Where:
- C_{air}: Concentration in air ($\mu g/m^3$)
- DBR: Daily Breathing Rate (L/kg body weight-day)
- A: Inhlation Adsorption Factor
- EF: Exposure Frequency (days)
- 10^-6: Conversion Factor

Risk Calculation Values

Variable	Student Receptor	Residential Receptor
CPF	1.1	1.1
DBR	745	302
A	1	1
EF	180	350
AT	9	70
FAH	0.33	1

Cancer Risk Calculations

Student Receptor Exposure (Unmitigated)

Exposure Year	Calendar Year	Annual DPM Emissions	Annual DPM Conc.	Inhalation Dose	CRAF	Cancer Risk
1	2016	0.209	0.200	7.348E-05	3	8.98
2	2017	0.121	0.116	4.254E-05	3	5.20
3-9	2018-24	0	0	0	3	0.00
Total Unmitigated Increased Cancer Risk (per million population) --->						**14.18**

Student Receptor Exposure (Mitigated)

Exposure Year	Calendar Year	Annual DPM Emissions	Annual DPM Conc.	Inhalation Dose	CRAF	Cancer Risk
1	2016	0.131	0.125	4.599E-05	3	5.62
2	2017	0.097	0.093	3.414E-05	3	4.17
3-9	2018-24	0	0	0	3	0.00
Total Mitigated Increased Cancer Risk (per million population) --->						**9.79**

Residential Receptor Exposure (Unmitigated)

Exposure Year	Calendar Year	Annual DPM Emissions	Annual DPM Conc.	Inhalation Dose	CRAF	Cancer Risk
1	2016	0.209	0.280	8.108E-05	1.7	2.17
2	2017	0.121	0.162	4.694E-05	1.7	1.25
3-70	2018-86	0	0	0	1.7	0.00
Total Unmitigated Increased Cancer Risk (per million population) --->						**3.42**

Residential Receptor Exposure (Mitigated)

Exposure Year	Calendar Year	Annual DPM Emissions	Annual DPM Conc.	Inhalation Dose	CRAF	Cancer Risk
1	2016	0.131	0.175	5.075E-05	1.7	1.36
2	2017	0.097	0.130	3.767E-05	1.7	1.01
3-70	2018-85	0	0	0	1.7	0.00
Total Mitigated Increased Cancer Risk (per million population) --->						**2.36**