Appendix A:
Air Quality and Greenhouse Gas Data

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Willow Avenue Self-storage Facility

Contra Costa County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	125.86	1000sqft	1.34	125,860.00	0
Other Asphalt Surfaces	1.94	Acre	1.94	84,506.40	0
Parking Lot	6.00	Space	0.05	2,400.00	0
Apartments Low Rise	1.00	Dwelling Unit	0.09	3,867.00	3

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	58
Climate Zone	5			**Operational Year**	2020
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	491.65	**CH4 Intensity (lb/MWhr)**	0.022	**N2O Intensity (lb/MWhr)**	0.005

1.3 User Entered Comments & Non-Default Data

Willow Avenue Self-storage Facility - Contra Costa County, Annual

Project Characteristics - PE&G Utility information adjusted based on Renewable Portfolio Standard

Land Use - information provided by RFI response

Construction Phase - construction schedule is provided by RFI response.
Confirmed by Client Bryan Wenter that the construction schedule would be 7 days per week.

Grading - based on Bryan Wenter's email on March 12, 2018, the cut and fill will be balance on site.

Vehicle Trips - from traffic study.

Woodstoves - no woodstove

Energy Use -

Construction Off-road Equipment Mitigation - Basic Construction Mitigation Measures, with Tier III mitigation

Area Mitigation -

Energy Mitigation - based on RFI response, the self-storage facility would consume 100KW renewable energy per year.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	11.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 3

tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	5.00	60.00
tblConstructionPhase	NumDays	8.00	122.00
tblConstructionPhase	NumDays	230.00	213.00
tblConstructionPhase	NumDays	18.00	60.00
tblConstructionPhase	NumDays	18.00	91.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblFireplaces	FireplaceDayYear	11.14	0.00
tblFireplaces	FireplaceHourDay	3.50	0.00
tblFireplaces	FireplaceWoodMass	228.80	0.00
tblFireplaces	NumberGas	0.15	0.00
tblFireplaces	NumberNoFireplace	0.04	0.00

tblFireplaces	NumberWood	0.17	0.00
tblGrading	AcresOfGrading	61.00	4.00
tblLandUse	LandUseSquareFeet	1,000.00	3,867.00
tblLandUse	LotAcreage	2.89	1.34
tblLandUse	LotAcreage	0.06	0.09
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.022
tblProjectCharacteristics	CO2IntensityFactor	641.35	491.65
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.005
tblVehicleTrips	ST_TR	1.68	2.50
tblVehicleTrips	SU_TR	1.68	2.50
tblVehicleTrips	WD_TR	1.68	2.50
tblWoodstoves	NumberCatalytic	0.02	0.00
tblWoodstoves	NumberNoncatalytic	0.02	0.00
tblWoodstoves	WoodstoveDayYear	14.12	0.00
tblWoodstoves	WoodstoveWoodMass	582.40	0.00

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					
2018	0.1845	1.9392	0.9643	1.6800e-003	0.6467	0.1022	0.7488	0.3528	0.0940	0.4468	0.0000	153.4305	153.4305	0.0461	0.0000	154.5840
2019	1.1835	4.4931	3.4662	6.8600e-003	0.3903	0.2318	0.6221	0.1809	0.2167	0.3976	0.0000	613.7858	613.7858	0.1228	0.0000	616.8569
Maximum	**1.1835**	**4.4931**	**3.4662**	**6.8600e-003**	**0.6467**	**0.2318**	**0.7488**	**0.3528**	**0.2167**	**0.4468**	**0.0000**	**613.7858**	**613.7858**	**0.1228**	**0.0000**	**616.8569**

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					
2018	0.0428	0.8119	1.0174	1.6800e-003	0.2944	0.0405	0.3349	0.1597	0.0405	0.2002	0.0000	153.4303	153.4303	0.0461	0.0000	154.5838
2019	0.8860	3.0235	3.6993	6.8600e-003	0.2400	0.1544	0.3945	0.0989	0.1542	0.2531	0.0000	613.7853	613.7853	0.1228	0.0000	616.8564
Maximum	**0.8860**	**3.0235**	**3.6993**	**6.8600e-003**	**0.2944**	**0.1544**	**0.3945**	**0.1597**	**0.1542**	**0.2531**	**0.0000**	**613.7853**	**613.7853**	**0.1228**	**0.0000**	**616.8564**

	ROG	**NOx**	**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	**32.10**	**40.37**	**-6.46**	**0.00**	**48.46**	**41.63**	**46.80**	**51.56**	**37.33**	**46.32**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**10-1-2018**	**12-31-2018**	2.1242	0.8552
2	**1-1-2019**	**3-31-2019**	1.3966	0.7053
3	**4-1-2019**	**6-30-2019**	1.7787	1.3124
4	**7-1-2019**	**9-30-2019**	2.0664	1.5851
		Highest	2.1242	1.5851

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	0.5828	1.0000e-004	8.6900e-003	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.0145	0.0145	2.0000e-005	0.0000	0.0150
Energy	1.0500e-003	9.5100e-003	7.6000e-003	6.0000e-005		7.3000e-004	7.3000e-004		7.3000e-004	7.3000e-004	0.0000	117.9265	117.9265	5.0100e-003	1.2800e-003	118.4345
Mobile	0.1018	0.4823	1.2639	4.1500e-003	0.3488	4.0700e-003	0.3529	0.0936	3.8200e-003	0.0974	0.0000	379.1492	379.1492	0.0139	0.0000	379.4959
Waste						0.0000	0.0000		0.0000	0.0000	24.1092	0.0000	24.1092	1.4248	0.0000	59.7296
Water						0.0000	0.0000		0.0000	0.0000	9.2544	35.2318	44.4862	0.9521	0.0228	75.0835
Total	**0.6856**	**0.4919**	**1.2802**	**4.2100e-003**	**0.3488**	**4.8500e-003**	**0.3537**	**0.0936**	**4.6000e-003**	**0.0982**	**33.3636**	**532.3220**	**565.6856**	**2.3958**	**0.0241**	**632.7585**

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	0.5828	1.0000e-004	8.6900e-003	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.0145	0.0145	2.0000e-005	0.0000	0.0150
Energy	1.0500e-003	9.5100e-003	7.6000e-003	6.0000e-005		7.3000e-004	7.3000e-004		7.3000e-004	7.3000e-004	0.0000	117.9042	117.9042	5.0100e-003	1.2800e-003	118.4121
Mobile	0.1018	0.4823	1.2639	4.1500e-003	0.3488	4.0700e-003	0.3529	0.0936	3.8200e-003	0.0974	0.0000	379.1492	379.1492	0.0139	0.0000	379.4959
Waste						0.0000	0.0000		0.0000	0.0000	24.1092	0.0000	24.1092	1.4248	0.0000	59.7296
Water						0.0000	0.0000		0.0000	0.0000	9.2544	35.2318	44.4862	0.9521	0.0228	75.0835
Total	**0.6856**	**0.4919**	**1.2802**	**4.2100e-003**	**0.3488**	**4.8500e-003**	**0.3537**	**0.0936**	**4.6000e-003**	**0.0982**	**33.3636**	**532.2997**	**565.6633**	**2.3958**	**0.0241**	**632.7361**

	ROG	NOx	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	Site Preparation	Site Preparation	10/1/2018	11/29/2018	7	60	
2	Grading	Grading	11/30/2018	3/31/2019	7	122	
3	Building Construction	Building Construction	4/1/2019	10/30/2019	7	213	
4	Paving	Paving	6/1/2019	7/30/2019	7	60	
5	Architectural Coating	Architectural Coating	6/1/2019	8/30/2019	7	91	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4

Acres of Paving: 1.99

Residential Indoor: 7,831; Residential Outdoor: 2,610; Non-Residential Indoor: 188,790; Non-Residential Outdoor: 62,930; Striped Parking Area: 5,214 (Architectural Coating – sqft)

OffRoad Equipment

Willow Avenue Self-storage Facility - Contra Costa County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	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
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	90.00	35.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Site Preparation - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.5420	0.0000	0.5420	0.2979	0.0000	0.2979	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1369	1.4460	0.6743	1.1400e-003		0.0773	0.0773		0.0711	0.0711	0.0000	104.2797	104.2797	0.0325	0.0000	105.0913
Total	**0.1369**	**1.4460**	**0.6743**	**1.1400e-003**	**0.5420**	**0.0773**	**0.6193**	**0.2979**	**0.0711**	**0.3690**	**0.0000**	**104.2797**	**104.2797**	**0.0325**	**0.0000**	**105.0913**

3.2 Site Preparation - 2018

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	2.2100e-003	1.7000e-003	0.0172	4.0000e-005	4.2800e-003	3.0000e-005	4.3100e-003	1.1400e-003	3.0000e-005	1.1700e-003	0.0000	4.0014	4.0014	1.2000e-004	0.0000	4.0044
Total	**2.2100e-003**	**1.7000e-003**	**0.0172**	**4.0000e-005**	**4.2800e-003**	**3.0000e-005**	**4.3100e-003**	**1.1400e-003**	**3.0000e-005**	**1.1700e-003**	**0.0000**	**4.0014**	**4.0014**	**1.2000e-004**	**0.0000**	**4.0044**

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					0.2439	0.0000	0.2439	0.1341	0.0000	0.1341	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0279	0.5720	0.6888	1.1400e-003		0.0284	0.0284		0.0284	0.0284	0.0000	104.2796	104.2796	0.0325	0.0000	105.0912
Total	**0.0279**	**0.5720**	**0.6888**	**1.1400e-003**	**0.2439**	**0.0284**	**0.2723**	**0.1341**	**0.0284**	**0.1624**	**0.0000**	**104.2796**	**104.2796**	**0.0325**	**0.0000**	**105.0912**

3.2 Site Preparation - 2018

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	2.2100e-003	1.7000e-003	0.0172	4.0000e-005	4.2800e-003	3.0000e-005	4.3100e-003	1.1400e-003	3.0000e-005	1.1700e-003	0.0000	4.0014	4.0014	1.2000e-004	0.0000	4.0044
Total	**2.2100e-003**	**1.7000e-003**	**0.0172**	**4.0000e-005**	**4.2800e-003**	**3.0000e-005**	**4.3100e-003**	**1.1400e-003**	**3.0000e-005**	**1.1700e-003**	**0.0000**	**4.0014**	**4.0014**	**1.2000e-004**	**0.0000**	**4.0044**

3.3 Grading - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0985	0.0000	0.0985	0.0532	0.0000	0.0532	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0444	0.4908	0.2652	4.7000e-004		0.0248	0.0248		0.0228	0.0228	0.0000	43.3710	43.3710	0.0135	0.0000	43.7086
Total	**0.0444**	**0.4908**	**0.2652**	**4.7000e-004**	**0.0985**	**0.0248**	**0.1233**	**0.0532**	**0.0228**	**0.0760**	**0.0000**	**43.3710**	**43.3710**	**0.0135**	**0.0000**	**43.7086**

3.3 Grading - 2018

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	9.8000e-004	7.6000e-004	7.6300e-003	2.0000e-005	1.9000e-003	1.0000e-005	1.9200e-003	5.1000e-004	1.0000e-005	5.2000e-004	0.0000	1.7784	1.7784	5.0000e-005	0.0000	1.7797
Total	**9.8000e-004**	**7.6000e-004**	**7.6300e-003**	**2.0000e-005**	**1.9000e-003**	**1.0000e-005**	**1.9200e-003**	**5.1000e-004**	**1.0000e-005**	**5.2000e-004**	**0.0000**	**1.7784**	**1.7784**	**5.0000e-005**	**0.0000**	**1.7797**

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					0.0443	0.0000	0.0443	0.0239	0.0000	0.0239	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0116	0.2374	0.3039	4.7000e-004		0.0121	0.0121		0.0121	0.0121	0.0000	43.3710	43.3710	0.0135	0.0000	43.7085
Total	**0.0116**	**0.2374**	**0.3039**	**4.7000e-004**	**0.0443**	**0.0121**	**0.0564**	**0.0239**	**0.0121**	**0.0360**	**0.0000**	**43.3710**	**43.3710**	**0.0135**	**0.0000**	**43.7085**

3.3 Grading - 2018

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	9.8000e-004	7.6000e-004	7.6300e-003	2.0000e-005	1.9000e-003	1.0000e-005	1.9200e-003	5.1000e-004	1.0000e-005	5.2000e-004	0.0000	1.7784	1.7784	5.0000e-005	0.0000	1.7797
Total	**9.8000e-004**	**7.6000e-004**	**7.6300e-003**	**2.0000e-005**	**1.9000e-003**	**1.0000e-005**	**1.9200e-003**	**5.1000e-004**	**1.0000e-005**	**5.2000e-004**	**0.0000**	**1.7784**	**1.7784**	**5.0000e-005**	**0.0000**	**1.7797**

3.3 Grading - 2019

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					0.2731	0.0000	0.2731	0.1492	0.0000	0.1492	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1161	1.2757	0.7332	1.3300e-003		0.0629	0.0629		0.0579	0.0579	0.0000	119.8902	119.8902	0.0379	0.0000	120.8385
Total	**0.1161**	**1.2757**	**0.7332**	**1.3300e-003**	**0.2731**	**0.0629**	**0.3360**	**0.1492**	**0.0579**	**0.2070**	**0.0000**	**119.8902**	**119.8902**	**0.0379**	**0.0000**	**120.8385**

3.3 Grading - 2019

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	2.4800e-003	1.8600e-003	0.0190	5.0000e-005	5.3500e-003	4.0000e-005	5.3900e-003	1.4200e-003	3.0000e-005	1.4600e-003	0.0000	4.8509	4.8509	1.3000e-004	0.0000	4.8542
Total	**2.4800e-003**	**1.8600e-003**	**0.0190**	**5.0000e-005**	**5.3500e-003**	**4.0000e-005**	**5.3900e-003**	**1.4200e-003**	**3.0000e-005**	**1.4600e-003**	**0.0000**	**4.8509**	**4.8509**	**1.3000e-004**	**0.0000**	**4.8542**

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					0.1229	0.0000	0.1229	0.0671	0.0000	0.0671	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0327	0.6678	0.8546	1.3300e-003		0.0340	0.0340		0.0340	0.0340	0.0000	119.8900	119.8900	0.0379	0.0000	120.8383
Total	**0.0327**	**0.6678**	**0.8546**	**1.3300e-003**	**0.1229**	**0.0340**	**0.1569**	**0.0671**	**0.0340**	**0.1011**	**0.0000**	**119.8900**	**119.8900**	**0.0379**	**0.0000**	**120.8383**

3.3 Grading - 2019

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	2.4800e-003	1.8600e-003	0.0190	5.0000e-005	5.3500e-003	4.0000e-005	5.3900e-003	1.4200e-003	3.0000e-005	1.4600e-003	0.0000	4.8509	4.8509	1.3000e-004	0.0000	4.8542
Total	**2.4800e-003**	**1.8600e-003**	**0.0190**	**5.0000e-005**	**5.3500e-003**	**4.0000e-005**	**5.3900e-003**	**1.4200e-003**	**3.0000e-005**	**1.4600e-003**	**0.0000**	**4.8509**	**4.8509**	**1.3000e-004**	**0.0000**	**4.8542**

3.4 Building Construction - 2019

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	0.2515	2.2449	1.8279	2.8700e-003		0.1374	0.1374		0.1292	0.1292	0.0000	250.3860	250.3860	0.0610	0.0000	251.9109
Total	**0.2515**	**2.2449**	**1.8279**	**2.8700e-003**		**0.1374**	**0.1374**		**0.1292**	**0.1292**	**0.0000**	**250.3860**	**250.3860**	**0.0610**	**0.0000**	**251.9109**

3.4 Building Construction - 2019

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	0.0185	0.4741	0.1236	1.0200e-003	0.0245	3.4900e-003	0.0280	7.0900e-003	3.3400e-003	0.0104	0.0000	97.7948	97.7948	5.2100e-003	0.0000	97.9251
Worker	0.0353	0.0264	0.2694	7.6000e-004	0.0760	5.2000e-004	0.0765	0.0202	4.8000e-004	0.0207	0.0000	68.8822	68.8822	1.8800e-003	0.0000	68.9291
Total	**0.0538**	**0.5005**	**0.3930**	**1.7800e-003**	**0.1005**	**4.0100e-003**	**0.1046**	**0.0273**	**3.8200e-003**	**0.0311**	**0.0000**	**166.6770**	**166.6770**	**7.0900e-003**	**0.0000**	**166.8543**

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	0.0718	1.5151	1.9036	2.8700e-003		0.0962	0.0962		0.0962	0.0962	0.0000	250.3857	250.3857	0.0610	0.0000	251.9106
Total	**0.0718**	**1.5151**	**1.9036**	**2.8700e-003**		**0.0962**	**0.0962**		**0.0962**	**0.0962**	**0.0000**	**250.3857**	**250.3857**	**0.0610**	**0.0000**	**251.9106**

3.4 Building Construction - 2019

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	0.0185	0.4741	0.1236	1.0200e-003	0.0245	3.4900e-003	0.0280	7.0900e-003	3.3400e-003	0.0104	0.0000	97.7948	97.7948	5.2100e-003	0.0000	97.9251
Worker	0.0353	0.0264	0.2694	7.6000e-004	0.0760	5.2000e-004	0.0765	0.0202	4.8000e-004	0.0207	0.0000	68.8822	68.8822	1.8800e-003	0.0000	68.9291
Total	**0.0538**	**0.5005**	**0.3930**	**1.7800e-003**	**0.1005**	**4.0100e-003**	**0.1046**	**0.0273**	**3.8200e-003**	**0.0311**	**0.0000**	**166.6770**	**166.6770**	**7.0900e-003**	**0.0000**	**166.8543**

3.5 Paving - 2019

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	0.0380	0.3828	0.3694	5.7000e-004		0.0216	0.0216		0.0199	0.0199	0.0000	50.1669	50.1669	0.0154	0.0000	50.5528
Paving	2.6100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0407**	**0.3828**	**0.3694**	**5.7000e-004**		**0.0216**	**0.0216**		**0.0199**	**0.0199**	**0.0000**	**50.1669**	**50.1669**	**0.0154**	**0.0000**	**50.5528**

3.5 Paving - 2019

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	2.2100e-003	1.6500e-003	0.0169	5.0000e-005	4.7600e-003	3.0000e-005	4.7900e-003	1.2700e-003	3.0000e-005	1.3000e-003	0.0000	4.3119	4.3119	1.2000e-004	0.0000	4.3148
Total	**2.2100e-003**	**1.6500e-003**	**0.0169**	**5.0000e-005**	**4.7600e-003**	**3.0000e-005**	**4.7900e-003**	**1.2700e-003**	**3.0000e-005**	**1.3000e-003**	**0.0000**	**4.3119**	**4.3119**	**1.2000e-004**	**0.0000**	**4.3148**

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	0.0132	0.2727	0.4060	5.7000e-004		0.0157	0.0157		0.0157	0.0157	0.0000	50.1669	50.1669	0.0154	0.0000	50.5527
Paving	2.6100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0158**	**0.2727**	**0.4060**	**5.7000e-004**		**0.0157**	**0.0157**		**0.0157**	**0.0157**	**0.0000**	**50.1669**	**50.1669**	**0.0154**	**0.0000**	**50.5527**

3.5 Paving - 2019

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	2.2100e-003	1.6500e-003	0.0169	5.0000e-005	4.7600e-003	3.0000e-005	4.7900e-003	1.2700e-003	3.0000e-005	1.3000e-003	0.0000	4.3119	4.3119	1.2000e-004	0.0000	4.3148
Total	**2.2100e-003**	**1.6500e-003**	**0.0169**	**5.0000e-005**	**4.7600e-003**	**3.0000e-005**	**4.7900e-003**	**1.2700e-003**	**3.0000e-005**	**1.3000e-003**	**0.0000**	**4.3119**	**4.3119**	**1.2000e-004**	**0.0000**	**4.3148**

3.6 Architectural Coating - 2019

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	0.7016					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0121	0.0835	0.0838	1.4000e-004		5.8600e-003	5.8600e-003		5.8600e-003	5.8600e-003	0.0000	11.6173	11.6173	9.8000e-004	0.0000	11.6418
Total	**0.7138**	**0.0835**	**0.0838**	**1.4000e-004**		**5.8600e-003**	**5.8600e-003**		**5.8600e-003**	**5.8600e-003**	**0.0000**	**11.6173**	**11.6173**	**9.8000e-004**	**0.0000**	**11.6418**

3.6 Architectural Coating - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0100e-003	2.2500e-003	0.0230	7.0000e-005	6.5000e-003	4.0000e-005	6.5400e-003	1.7300e-003	4.0000e-005	1.7700e-003	0.0000	5.8857	5.8857	1.6000e-004	0.0000	5.8897
Total	**3.0100e-003**	**2.2500e-003**	**0.0230**	**7.0000e-005**	**6.5000e-003**	**4.0000e-005**	**6.5400e-003**	**1.7300e-003**	**4.0000e-005**	**1.7700e-003**	**0.0000**	**5.8857**	**5.8857**	**1.6000e-004**	**0.0000**	**5.8897**

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	0.7016					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.7000e-003	0.0617	0.0834	1.4000e-004		4.3300e-003	4.3300e-003		4.3300e-003	4.3300e-003	0.0000	11.6173	11.6173	9.8000e-004	0.0000	11.6418
Total	**0.7043**	**0.0617**	**0.0834**	**1.4000e-004**		**4.3300e-003**	**4.3300e-003**		**4.3300e-003**	**4.3300e-003**	**0.0000**	**11.6173**	**11.6173**	**9.8000e-004**	**0.0000**	**11.6418**

3.6 Architectural Coating - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0100e-003	2.2500e-003	0.0230	7.0000e-005	6.5000e-003	4.0000e-005	6.5400e-003	1.7300e-003	4.0000e-005	1.7700e-003	0.0000	5.8857	5.8857	1.6000e-004	0.0000	5.8897
Total	**3.0100e-003**	**2.2500e-003**	**0.0230**	**7.0000e-005**	**6.5000e-003**	**4.0000e-005**	**6.5400e-003**	**1.7300e-003**	**4.0000e-005**	**1.7700e-003**	**0.0000**	**5.8857**	**5.8857**	**1.6000e-004**	**0.0000**	**5.8897**

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	0.1018	0.4823	1.2639	4.1500e-003	0.3488	4.0700e-003	0.3529	0.0936	3.8200e-003	0.0974	0.0000	379.1492	379.1492	0.0139	0.0000	379.4959
Unmitigated	0.1018	0.4823	1.2639	4.1500e-003	0.3488	4.0700e-003	0.3529	0.0936	3.8200e-003	0.0974	0.0000	379.1492	379.1492	0.0139	0.0000	379.4959

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	6.59	7.16	6.07	15,237	15,237
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	314.65	314.65	314.65	918,624	918,624
Total	321.24	321.81	320.72	933,861	933,861

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
Apartments Low Rise	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.577244	0.040114	0.186710	0.126359	0.018084	0.005120	0.010527	0.023222	0.001588	0.001850	0.005513	0.002759	0.000910
Other Asphalt Surfaces	0.577244	0.040114	0.186710	0.126359	0.018084	0.005120	0.010527	0.023222	0.001588	0.001850	0.005513	0.002759	0.000910
Parking Lot	0.577244	0.040114	0.186710	0.126359	0.018084	0.005120	0.010527	0.023222	0.001588	0.001850	0.005513	0.002759	0.000910
Unrefrigerated Warehouse-No Rail	0.577244	0.040114	0.186710	0.126359	0.018084	0.005120	0.010527	0.023222	0.001588	0.001850	0.005513	0.002759	0.000910

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Kilowatt Hours of Renewable Electricity Generated

	ROG	NOx	CO	SO2	Fugitive 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	107.4825	107.4825	4.8100e-003	1.0900e-003	107.9285
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	107.5048	107.5048	4.8100e-003	1.0900e-003	107.9509
NaturalGas Mitigated	1.0500e-003	9.5100e-003	7.6000e-003	6.0000e-005		7.3000e-004	7.3000e-004		7.3000e-004	7.3000e-004	0.0000	10.4217	10.4217	2.0000e-004	1.9000e-004	10.4836
NaturalGas Unmitigated	1.0500e-003	9.5100e-003	7.6000e-003	6.0000e-005		7.3000e-004	7.3000e-004		7.3000e-004	7.3000e-004	0.0000	10.4217	10.4217	2.0000e-004	1.9000e-004	10.4836

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					
Apartments Low Rise	20349.5	1.1000e-004	9.4000e-004	4.0000e-004	1.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	1.0859	1.0859	2.0000e-005	2.0000e-005	1.0924
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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
Unrefrigerated Warehouse-No Rail	174945	9.4000e-004	8.5800e-003	7.2000e-003	5.0000e-005		6.5000e-004	6.5000e-004		6.5000e-004	6.5000e-004	0.0000	9.3358	9.3358	1.8000e-004	1.7000e-004	9.3912
Total		**1.0500e-003**	**9.5200e-003**	**7.6000e-003**	**6.0000e-005**		**7.3000e-004**	**7.3000e-004**		**7.3000e-004**	**7.3000e-004**	**0.0000**	**10.4217**	**10.4217**	**2.0000e-004**	**1.9000e-004**	**10.4836**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	20349.5	1.1000e-004	9.4000e-004	4.0000e-004	1.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	1.0859	1.0859	2.0000e-005	2.0000e-005	1.0924
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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
Unrefrigerated Warehouse-No Rail	174945	9.4000e-004	8.5800e-003	7.2000e-003	5.0000e-005		6.5000e-004	6.5000e-004		6.5000e-004	6.5000e-004	0.0000	9.3358	9.3358	1.8000e-004	1.7000e-004	9.3912
Total		**1.0500e-003**	**9.5200e-003**	**7.6000e-003**	**6.0000e-005**		**7.3000e-004**	**7.3000e-004**		**7.3000e-004**	**7.3000e-004**	**0.0000**	**10.4217**	**10.4217**	**2.0000e-004**	**1.9000e-004**	**10.4836**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	4216.18	0.9402	4.0000e-005	1.0000e-005	0.9442
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	840	0.1873	1.0000e-005	0.0000	0.1881
Unrefrigerated Warehouse-No Rail	477009	106.3772	4.7600e-003	1.0800e-003	106.8186
Total		**107.5048**	**4.8100e-003**	**1.0900e-003**	**107.9509**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	4191.18	0.9347	4.0000e-005	1.0000e-005	0.9386
Other Asphalt Surfaces	-25	-0.0056	0.0000	0.0000	-0.0056
Parking Lot	815	0.1818	1.0000e-005	0.0000	0.1825
Unrefrigerated Warehouse-No Rail	476984	106.3717	4.7600e-003	1.0800e-003	106.8130
Total		**107.4825**	**4.8100e-003**	**1.0900e-003**	**107.9285**

6.0 Area Detail

6.1 Mitigation Measures Area

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive 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	0.5828	1.0000e-004	8.6900e-003	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.0145	0.0145	2.0000e-005	0.0000	0.0150
Unmitigated	0.5828	1.0000e-004	8.6900e-003	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.0145	0.0145	2.0000e-005	0.0000	0.0150

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	0.0702					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.5123					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.4000e-004	1.0000e-004	8.6900e-003	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.0145	0.0145	2.0000e-005	0.0000	0.0150
Total	**0.5828**	**1.0000e-004**	**8.6900e-003**	**0.0000**		**5.0000e-005**	**5.0000e-005**		**5.0000e-005**	**5.0000e-005**	**0.0000**	**0.0145**	**0.0145**	**2.0000e-005**	**0.0000**	**0.0150**

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	0.0702					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.5123					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.4000e-004	1.0000e-004	8.6900e-003	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.0145	0.0145	2.0000e-005	0.0000	0.0150
Total	**0.5828**	**1.0000e-004**	**8.6900e-003**	**0.0000**		**5.0000e-005**	**5.0000e-005**		**5.0000e-005**	**5.0000e-005**	**0.0000**	**0.0145**	**0.0145**	**2.0000e-005**	**0.0000**	**0.0150**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	44.4862	0.9521	0.0228	75.0835
Unmitigated	44.4862	0.9521	0.0228	75.0835

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	0.065154 / 0.0410754	0.1314	2.1300e-003	5.0000e-005	0.1998
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	29.1051 / 0	44.3549	0.9500	0.0228	74.8837
Total		**44.4862**	**0.9521**	**0.0228**	**75.0835**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	0.065154 / 0.0410754	0.1314	2.1300e-003	5.0000e-005	0.1998
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	29.1051 / 0	44.3549	0.9500	0.0228	74.8837
Total		**44.4862**	**0.9521**	**0.0228**	**75.0835**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	24.1092	1.4248	0.0000	59.7296
Unmitigated	24.1092	1.4248	0.0000	59.7296

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	0.46	0.0934	5.5200e-003	0.0000	0.2313
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	118.31	24.0159	1.4193	0.0000	59.4983
Total		**24.1092**	**1.4248**	**0.0000**	**59.7296**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	0.46	0.0934	5.5200e-003	0.0000	0.2313
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	118.31	24.0159	1.4193	0.0000	59.4983
Total		**24.1092**	**1.4248**	**0.0000**	**59.7296**

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Willow Avenue Self-storage Facility

Contra Costa County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	125.86	1000sqft	1.34	125,860.00	0
Other Asphalt Surfaces	1.94	Acre	1.94	84,506.40	0
Parking Lot	6.00	Space	0.05	2,400.00	0
Apartments Low Rise	1.00	Dwelling Unit	0.09	3,867.00	3

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	58
Climate Zone	5			**Operational Year**	2020
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	491.65	**CH4 Intensity (lb/MWhr)**	0.022	**N2O Intensity (lb/MWhr)**	0.005

1.3 User Entered Comments & Non-Default Data

Project Characteristics - PE&G Utility information adjusted based on Renewable Portfolio Standard

Land Use - information provided by RFI response

Construction Phase - construction schedule is provided by RFI response.
Confirmed by Client Bryan Wenter that the construction schedule would be 7 days per week.

Grading - based on Bryan Wenter's email on March 12, 2018, the cut and fill will be balance on site.

Vehicle Trips - from traffic study.

Woodstoves - no woodstove

Energy Use -

Construction Off-road Equipment Mitigation - Basic Construction Mitigation Measures, with Tier IV mitigation

Energy Mitigation - based on RFI response, the self-storage facility would consume 100KW renewable energy per year.

Area Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	11.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	5.00	60.00
tblConstructionPhase	NumDays	8.00	122.00
tblConstructionPhase	NumDays	230.00	213.00
tblConstructionPhase	NumDays	18.00	60.00
tblConstructionPhase	NumDays	18.00	91.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblFireplaces	FireplaceDayYear	11.14	0.00
tblFireplaces	FireplaceHourDay	3.50	0.00
tblFireplaces	FireplaceWoodMass	228.80	0.00
tblFireplaces	NumberGas	0.15	0.00
tblFireplaces	NumberNoFireplace	0.04	0.00

tblFireplaces	NumberWood	0.17	0.00
tblGrading	AcresOfGrading	61.00	4.00
tblLandUse	LandUseSquareFeet	1,000.00	3,867.00
tblLandUse	LotAcreage	2.89	1.34
tblLandUse	LotAcreage	0.06	0.09
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.022
tblProjectCharacteristics	CO2IntensityFactor	641.35	491.65
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.005
tblVehicleTrips	ST_TR	1.68	2.50
tblVehicleTrips	SU_TR	1.68	2.50
tblVehicleTrips	WD_TR	1.68	2.50
tblWoodstoves	NumberCatalytic	0.02	0.00
tblWoodstoves	NumberNoncatalytic	0.02	0.00
tblWoodstoves	WoodstoveDayYear	14.12	0.00
tblWoodstoves	WoodstoveWoodMass	582.40	0.00

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					
2018	0.1845	1.9392	0.9643	1.6800e-003	0.6467	0.1022	0.7488	0.3528	0.0940	0.4468	0.0000	153.4305	153.4305	0.0461	0.0000	154.5840
2019	1.1835	4.4931	3.4662	6.8600e-003	0.3903	0.2318	0.6221	0.1809	0.2167	0.3976	0.0000	613.7858	613.7858	0.1228	0.0000	616.8569
Maximum	**1.1835**	**4.4931**	**3.4662**	**6.8600e-003**	**0.6467**	**0.2318**	**0.7488**	**0.3528**	**0.2167**	**0.4468**	**0.0000**	**613.7858**	**613.7858**	**0.1228**	**0.0000**	**616.8569**

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					
2018	0.0230	0.0882	0.9349	1.6800e-003	0.2944	2.6800e-003	0.2971	0.1597	2.6800e-003	0.1623	0.0000	153.4303	153.4303	0.0461	0.0000	154.5838
2019	0.8249	0.8494	3.5996	6.8600e-003	0.2400	0.0117	0.2518	0.0989	0.0115	0.1104	0.0000	613.7853	613.7853	0.1228	0.0000	616.8564
Maximum	**0.8249**	**0.8494**	**3.5996**	**6.8600e-003**	**0.2944**	**0.0117**	**0.2971**	**0.1597**	**0.0115**	**0.1623**	**0.0000**	**613.7853**	**613.7853**	**0.1228**	**0.0000**	**616.8564**

	ROG	**NOx**	**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	**38.02**	**85.42**	**-2.35**	**0.00**	**48.46**	**95.69**	**59.97**	**51.56**	**95.43**	**67.71**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**10-1-2018**	**12-31-2018**	2.1242	0.1117
2	**1-1-2019**	**3-31-2019**	1.3966	0.0919
3	**4-1-2019**	**6-30-2019**	1.7787	0.6068
4	**7-1-2019**	**9-30-2019**	2.0664	0.8539
		Highest	2.1242	0.8539

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	0.5828	1.0000e-004	8.6900e-003	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.0145	0.0145	2.0000e-005	0.0000	0.0150
Energy	1.0500e-003	9.5100e-003	7.6000e-003	6.0000e-005		7.3000e-004	7.3000e-004		7.3000e-004	7.3000e-004	0.0000	117.9265	117.9265	5.0100e-003	1.2800e-003	118.4345
Mobile	0.1018	0.4823	1.2639	4.1500e-003	0.3488	4.0700e-003	0.3529	0.0936	3.8200e-003	0.0974	0.0000	379.1492	379.1492	0.0139	0.0000	379.4959
Waste						0.0000	0.0000		0.0000	0.0000	24.1092	0.0000	24.1092	1.4248	0.0000	59.7296
Water						0.0000	0.0000		0.0000	0.0000	9.2544	35.2318	44.4862	0.9521	0.0228	75.0835
Total	**0.6856**	**0.4919**	**1.2802**	**4.2100e-003**	**0.3488**	**4.8500e-003**	**0.3537**	**0.0936**	**4.6000e-003**	**0.0982**	**33.3636**	**532.3220**	**565.6856**	**2.3958**	**0.0241**	**632.7585**

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	0.5828	1.0000e-004	8.6900e-003	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.0145	0.0145	2.0000e-005	0.0000	0.0150
Energy	1.0500e-003	9.5100e-003	7.6000e-003	6.0000e-005		7.3000e-004	7.3000e-004		7.3000e-004	7.3000e-004	0.0000	117.9042	117.9042	5.0100e-003	1.2800e-003	118.4121
Mobile	0.1018	0.4823	1.2639	4.1500e-003	0.3488	4.0700e-003	0.3529	0.0936	3.8200e-003	0.0974	0.0000	379.1492	379.1492	0.0139	0.0000	379.4959
Waste						0.0000	0.0000		0.0000	0.0000	24.1092	0.0000	24.1092	1.4248	0.0000	59.7296
Water						0.0000	0.0000		0.0000	0.0000	9.2544	35.2318	44.4862	0.9521	0.0228	75.0835
Total	**0.6856**	**0.4919**	**1.2802**	**4.2100e-003**	**0.3488**	**4.8500e-003**	**0.3537**	**0.0936**	**4.6000e-003**	**0.0982**	**33.3636**	**532.2997**	**565.6633**	**2.3958**	**0.0241**	**632.7361**

	ROG	NOx	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	Site Preparation	Site Preparation	10/1/2018	11/29/2018	7	60	
2	Grading	Grading	11/30/2018	3/31/2019	7	122	
3	Building Construction	Building Construction	4/1/2019	10/30/2019	7	213	
4	Paving	Paving	6/1/2019	7/30/2019	7	60	
5	Architectural Coating	Architectural Coating	6/1/2019	8/30/2019	7	91	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4

Acres of Paving: 1.99

Residential Indoor: 7,831; Residential Outdoor: 2,610; Non-Residential Indoor: 188,790; Non-Residential Outdoor: 62,930; Striped Parking Area: 5,214 (Architectural Coating – sqft)

<u>OffRoad Equipment</u>

Willow Avenue Self-storage Facility - Contra Costa County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	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
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	90.00	35.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Site Preparation - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.5420	0.0000	0.5420	0.2979	0.0000	0.2979	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1369	1.4460	0.6743	1.1400e-003		0.0773	0.0773		0.0711	0.0711	0.0000	104.2797	104.2797	0.0325	0.0000	105.0913
Total	**0.1369**	**1.4460**	**0.6743**	**1.1400e-003**	**0.5420**	**0.0773**	**0.6193**	**0.2979**	**0.0711**	**0.3690**	**0.0000**	**104.2797**	**104.2797**	**0.0325**	**0.0000**	**105.0913**

3.2 Site Preparation - 2018

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	2.2100e-003	1.7000e-003	0.0172	4.0000e-005	4.2800e-003	3.0000e-005	4.3100e-003	1.1400e-003	3.0000e-005	1.1700e-003	0.0000	4.0014	4.0014	1.2000e-004	0.0000	4.0044
Total	**2.2100e-003**	**1.7000e-003**	**0.0172**	**4.0000e-005**	**4.2800e-003**	**3.0000e-005**	**4.3100e-003**	**1.1400e-003**	**3.0000e-005**	**1.1700e-003**	**0.0000**	**4.0014**	**4.0014**	**1.2000e-004**	**0.0000**	**4.0044**

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					0.2439	0.0000	0.2439	0.1341	0.0000	0.1341	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0140	0.0605	0.6261	1.1400e-003		1.8600e-003	1.8600e-003		1.8600e-003	1.8600e-003	0.0000	104.2796	104.2796	0.0325	0.0000	105.0912
Total	**0.0140**	**0.0605**	**0.6261**	**1.1400e-003**	**0.2439**	**1.8600e-003**	**0.2458**	**0.1341**	**1.8600e-003**	**0.1359**	**0.0000**	**104.2796**	**104.2796**	**0.0325**	**0.0000**	**105.0912**

3.2 Site Preparation - 2018

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	2.2100e-003	1.7000e-003	0.0172	4.0000e-005	4.2800e-003	3.0000e-005	4.3100e-003	1.1400e-003	3.0000e-005	1.1700e-003	0.0000	4.0014	4.0014	1.2000e-004	0.0000	4.0044
Total	**2.2100e-003**	**1.7000e-003**	**0.0172**	**4.0000e-005**	**4.2800e-003**	**3.0000e-005**	**4.3100e-003**	**1.1400e-003**	**3.0000e-005**	**1.1700e-003**	**0.0000**	**4.0014**	**4.0014**	**1.2000e-004**	**0.0000**	**4.0044**

3.3 Grading - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0985	0.0000	0.0985	0.0532	0.0000	0.0532	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0444	0.4908	0.2652	4.7000e-004		0.0248	0.0248		0.0228	0.0228	0.0000	43.3710	43.3710	0.0135	0.0000	43.7086
Total	**0.0444**	**0.4908**	**0.2652**	**4.7000e-004**	**0.0985**	**0.0248**	**0.1233**	**0.0532**	**0.0228**	**0.0760**	**0.0000**	**43.3710**	**43.3710**	**0.0135**	**0.0000**	**43.7086**

3.3 Grading - 2018

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	9.8000e-004	7.6000e-004	7.6300e-003	2.0000e-005	1.9000e-003	1.0000e-005	1.9200e-003	5.1000e-004	1.0000e-005	5.2000e-004	0.0000	1.7784	1.7784	5.0000e-005	0.0000	1.7797
Total	**9.8000e-004**	**7.6000e-004**	**7.6300e-003**	**2.0000e-005**	**1.9000e-003**	**1.0000e-005**	**1.9200e-003**	**5.1000e-004**	**1.0000e-005**	**5.2000e-004**	**0.0000**	**1.7784**	**1.7784**	**5.0000e-005**	**0.0000**	**1.7797**

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					0.0443	0.0000	0.0443	0.0239	0.0000	0.0239	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.8100e-003	0.0252	0.2840	4.7000e-004		7.7000e-004	7.7000e-004		7.7000e-004	7.7000e-004	0.0000	43.3710	43.3710	0.0135	0.0000	43.7085
Total	**5.8100e-003**	**0.0252**	**0.2840**	**4.7000e-004**	**0.0443**	**7.7000e-004**	**0.0451**	**0.0239**	**7.7000e-004**	**0.0247**	**0.0000**	**43.3710**	**43.3710**	**0.0135**	**0.0000**	**43.7085**

3.3 Grading - 2018

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	9.8000e-004	7.6000e-004	7.6300e-003	2.0000e-005	1.9000e-003	1.0000e-005	1.9200e-003	5.1000e-004	1.0000e-005	5.2000e-004	0.0000	1.7784	1.7784	5.0000e-005	0.0000	1.7797
Total	**9.8000e-004**	**7.6000e-004**	**7.6300e-003**	**2.0000e-005**	**1.9000e-003**	**1.0000e-005**	**1.9200e-003**	**5.1000e-004**	**1.0000e-005**	**5.2000e-004**	**0.0000**	**1.7784**	**1.7784**	**5.0000e-005**	**0.0000**	**1.7797**

3.3 Grading - 2019

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					0.2731	0.0000	0.2731	0.1492	0.0000	0.1492	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1161	1.2757	0.7332	1.3300e-003		0.0629	0.0629		0.0579	0.0579	0.0000	119.8902	119.8902	0.0379	0.0000	120.8385
Total	**0.1161**	**1.2757**	**0.7332**	**1.3300e-003**	**0.2731**	**0.0629**	**0.3360**	**0.1492**	**0.0579**	**0.2070**	**0.0000**	**119.8902**	**119.8902**	**0.0379**	**0.0000**	**120.8385**

3.3 Grading - 2019

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	2.4800e-003	1.8600e-003	0.0190	5.0000e-005	5.3500e-003	4.0000e-005	5.3900e-003	1.4200e-003	3.0000e-005	1.4600e-003	0.0000	4.8509	4.8509	1.3000e-004	0.0000	4.8542
Total	**2.4800e-003**	**1.8600e-003**	**0.0190**	**5.0000e-005**	**5.3500e-003**	**4.0000e-005**	**5.3900e-003**	**1.4200e-003**	**3.0000e-005**	**1.4600e-003**	**0.0000**	**4.8509**	**4.8509**	**1.3000e-004**	**0.0000**	**4.8542**

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					0.1229	0.0000	0.1229	0.0671	0.0000	0.0671	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0163	0.0708	0.7989	1.3300e-003		2.1800e-003	2.1800e-003		2.1800e-003	2.1800e-003	0.0000	119.8900	119.8900	0.0379	0.0000	120.8383
Total	**0.0163**	**0.0708**	**0.7989**	**1.3300e-003**	**0.1229**	**2.1800e-003**	**0.1251**	**0.0671**	**2.1800e-003**	**0.0693**	**0.0000**	**119.8900**	**119.8900**	**0.0379**	**0.0000**	**120.8383**

3.3 Grading - 2019

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	2.4800e-003	1.8600e-003	0.0190	5.0000e-005	5.3500e-003	4.0000e-005	5.3900e-003	1.4200e-003	3.0000e-005	1.4600e-003	0.0000	4.8509	4.8509	1.3000e-004	0.0000	4.8542
Total	**2.4800e-003**	**1.8600e-003**	**0.0190**	**5.0000e-005**	**5.3500e-003**	**4.0000e-005**	**5.3900e-003**	**1.4200e-003**	**3.0000e-005**	**1.4600e-003**	**0.0000**	**4.8509**	**4.8509**	**1.3000e-004**	**0.0000**	**4.8542**

3.4 Building Construction - 2019

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	0.2515	2.2449	1.8279	2.8700e-003		0.1374	0.1374		0.1292	0.1292	0.0000	250.3860	250.3860	0.0610	0.0000	251.9109
Total	**0.2515**	**2.2449**	**1.8279**	**2.8700e-003**		**0.1374**	**0.1374**		**0.1292**	**0.1292**	**0.0000**	**250.3860**	**250.3860**	**0.0610**	**0.0000**	**251.9109**

3.4 Building Construction - 2019

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	0.0185	0.4741	0.1236	1.0200e-003	0.0245	3.4900e-003	0.0280	7.0900e-003	3.3400e-003	0.0104	0.0000	97.7948	97.7948	5.2100e-003	0.0000	97.9251
Worker	0.0353	0.0264	0.2694	7.6000e-004	0.0760	5.2000e-004	0.0765	0.0202	4.8000e-004	0.0207	0.0000	68.8822	68.8822	1.8800e-003	0.0000	68.9291
Total	**0.0538**	**0.5005**	**0.3930**	**1.7800e-003**	**0.1005**	**4.0100e-003**	**0.1046**	**0.0273**	**3.8200e-003**	**0.0311**	**0.0000**	**166.6770**	**166.6770**	**7.0900e-003**	**0.0000**	**166.8543**

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	0.0349	0.2380	1.8595	2.8700e-003		4.3400e-003	4.3400e-003		4.3400e-003	4.3400e-003	0.0000	250.3857	250.3857	0.0610	0.0000	251.9106
Total	**0.0349**	**0.2380**	**1.8595**	**2.8700e-003**		**4.3400e-003**	**4.3400e-003**		**4.3400e-003**	**4.3400e-003**	**0.0000**	**250.3857**	**250.3857**	**0.0610**	**0.0000**	**251.9106**

3.4 Building Construction - 2019

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	0.0185	0.4741	0.1236	1.0200e-003	0.0245	3.4900e-003	0.0280	7.0900e-003	3.3400e-003	0.0104	0.0000	97.7948	97.7948	5.2100e-003	0.0000	97.9251
Worker	0.0353	0.0264	0.2694	7.6000e-004	0.0760	5.2000e-004	0.0765	0.0202	4.8000e-004	0.0207	0.0000	68.8822	68.8822	1.8800e-003	0.0000	68.9291
Total	**0.0538**	**0.5005**	**0.3930**	**1.7800e-003**	**0.1005**	**4.0100e-003**	**0.1046**	**0.0273**	**3.8200e-003**	**0.0311**	**0.0000**	**166.6770**	**166.6770**	**7.0900e-003**	**0.0000**	**166.8543**

3.5 Paving - 2019

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	0.0380	0.3828	0.3694	5.7000e-004		0.0216	0.0216		0.0199	0.0199	0.0000	50.1669	50.1669	0.0154	0.0000	50.5528
Paving	2.6100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0407**	**0.3828**	**0.3694**	**5.7000e-004**		**0.0216**	**0.0216**		**0.0199**	**0.0199**	**0.0000**	**50.1669**	**50.1669**	**0.0154**	**0.0000**	**50.5528**

3.5 Paving - 2019

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	2.2100e-003	1.6500e-003	0.0169	5.0000e-005	4.7600e-003	3.0000e-005	4.7900e-003	1.2700e-003	3.0000e-005	1.3000e-003	0.0000	4.3119	4.3119	1.2000e-004	0.0000	4.3148
Total	**2.2100e-003**	**1.6500e-003**	**0.0169**	**5.0000e-005**	**4.7600e-003**	**3.0000e-005**	**4.7900e-003**	**1.2700e-003**	**3.0000e-005**	**1.3000e-003**	**0.0000**	**4.3119**	**4.3119**	**1.2000e-004**	**0.0000**	**4.3148**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	6.5800e-003	0.0285	0.4060	5.7000e-004		8.8000e-004	8.8000e-004		8.8000e-004	8.8000e-004	0.0000	50.1669	50.1669	0.0154	0.0000	50.5527
Paving	2.6100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**9.1900e-003**	**0.0285**	**0.4060**	**5.7000e-004**		**8.8000e-004**	**8.8000e-004**		**8.8000e-004**	**8.8000e-004**	**0.0000**	**50.1669**	**50.1669**	**0.0154**	**0.0000**	**50.5527**

3.5 Paving - 2019

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	2.2100e-003	1.6500e-003	0.0169	5.0000e-005	4.7600e-003	3.0000e-005	4.7900e-003	1.2700e-003	3.0000e-005	1.3000e-003	0.0000	4.3119	4.3119	1.2000e-004	0.0000	4.3148
Total	**2.2100e-003**	**1.6500e-003**	**0.0169**	**5.0000e-005**	**4.7600e-003**	**3.0000e-005**	**4.7900e-003**	**1.2700e-003**	**3.0000e-005**	**1.3000e-003**	**0.0000**	**4.3119**	**4.3119**	**1.2000e-004**	**0.0000**	**4.3148**

3.6 Architectural Coating - 2019

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	0.7016					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0121	0.0835	0.0838	1.4000e-004		5.8600e-003	5.8600e-003		5.8600e-003	5.8600e-003	0.0000	11.6173	11.6173	9.8000e-004	0.0000	11.6418
Total	**0.7138**	**0.0835**	**0.0838**	**1.4000e-004**		**5.8600e-003**	**5.8600e-003**		**5.8600e-003**	**5.8600e-003**	**0.0000**	**11.6173**	**11.6173**	**9.8000e-004**	**0.0000**	**11.6418**

3.6 Architectural Coating - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0100e-003	2.2500e-003	0.0230	7.0000e-005	6.5000e-003	4.0000e-005	6.5400e-003	1.7300e-003	4.0000e-005	1.7700e-003	0.0000	5.8857	5.8857	1.6000e-004	0.0000	5.8897
Total	**3.0100e-003**	**2.2500e-003**	**0.0230**	**7.0000e-005**	**6.5000e-003**	**4.0000e-005**	**6.5400e-003**	**1.7300e-003**	**4.0000e-005**	**1.7700e-003**	**0.0000**	**5.8857**	**5.8857**	**1.6000e-004**	**0.0000**	**5.8897**

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	0.7016					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.3500e-003	5.8600e-003	0.0834	1.4000e-004		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	11.6173	11.6173	9.8000e-004	0.0000	11.6418
Total	**0.7030**	**5.8600e-003**	**0.0834**	**1.4000e-004**		**1.8000e-004**	**1.8000e-004**		**1.8000e-004**	**1.8000e-004**	**0.0000**	**11.6173**	**11.6173**	**9.8000e-004**	**0.0000**	**11.6418**

3.6 Architectural Coating - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0100e-003	2.2500e-003	0.0230	7.0000e-005	6.5000e-003	4.0000e-005	6.5400e-003	1.7300e-003	4.0000e-005	1.7700e-003	0.0000	5.8857	5.8857	1.6000e-004	0.0000	5.8897
Total	**3.0100e-003**	**2.2500e-003**	**0.0230**	**7.0000e-005**	**6.5000e-003**	**4.0000e-005**	**6.5400e-003**	**1.7300e-003**	**4.0000e-005**	**1.7700e-003**	**0.0000**	**5.8857**	**5.8857**	**1.6000e-004**	**0.0000**	**5.8897**

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	0.1018	0.4823	1.2639	4.1500e-003	0.3488	4.0700e-003	0.3529	0.0936	3.8200e-003	0.0974	0.0000	379.1492	379.1492	0.0139	0.0000	379.4959
Unmitigated	0.1018	0.4823	1.2639	4.1500e-003	0.3488	4.0700e-003	0.3529	0.0936	3.8200e-003	0.0974	0.0000	379.1492	379.1492	0.0139	0.0000	379.4959

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	6.59	7.16	6.07	15,237	15,237
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	314.65	314.65	314.65	918,624	918,624
Total	321.24	321.81	320.72	933,861	933,861

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
Apartments Low Rise	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.577244	0.040114	0.186710	0.126359	0.018084	0.005120	0.010527	0.023222	0.001588	0.001850	0.005513	0.002759	0.000910
Other Asphalt Surfaces	0.577244	0.040114	0.186710	0.126359	0.018084	0.005120	0.010527	0.023222	0.001588	0.001850	0.005513	0.002759	0.000910
Parking Lot	0.577244	0.040114	0.186710	0.126359	0.018084	0.005120	0.010527	0.023222	0.001588	0.001850	0.005513	0.002759	0.000910
Unrefrigerated Warehouse-No Rail	0.577244	0.040114	0.186710	0.126359	0.018084	0.005120	0.010527	0.023222	0.001588	0.001850	0.005513	0.002759	0.000910

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Kilowatt Hours of Renewable Electricity Generated

	ROG	NOx	CO	SO2	Fugitive 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	107.4825	107.4825	4.8100e-003	1.0900e-003	107.9285
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	107.5048	107.5048	4.8100e-003	1.0900e-003	107.9509
NaturalGas Mitigated	1.0500e-003	9.5100e-003	7.6000e-003	6.0000e-005		7.3000e-004	7.3000e-004		7.3000e-004	7.3000e-004	0.0000	10.4217	10.4217	2.0000e-004	1.9000e-004	10.4836
NaturalGas Unmitigated	1.0500e-003	9.5100e-003	7.6000e-003	6.0000e-005		7.3000e-004	7.3000e-004		7.3000e-004	7.3000e-004	0.0000	10.4217	10.4217	2.0000e-004	1.9000e-004	10.4836

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					
Apartments Low Rise	20349.5	1.1000e-004	9.4000e-004	4.0000e-004	1.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	1.0859	1.0859	2.0000e-005	2.0000e-005	1.0924
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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
Unrefrigerated Warehouse-No Rail	174945	9.4000e-004	8.5800e-003	7.2000e-003	5.0000e-005		6.5000e-004	6.5000e-004		6.5000e-004	6.5000e-004	0.0000	9.3358	9.3358	1.8000e-004	1.7000e-004	9.3912
Total		**1.0500e-003**	**9.5200e-003**	**7.6000e-003**	**6.0000e-005**		**7.3000e-004**	**7.3000e-004**		**7.3000e-004**	**7.3000e-004**	**0.0000**	**10.4217**	**10.4217**	**2.0000e-004**	**1.9000e-004**	**10.4836**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	20349.5	1.1000e-004	9.4000e-004	4.0000e-004	1.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	1.0859	1.0859	2.0000e-005	2.0000e-005	1.0924
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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
Unrefrigerated Warehouse-No Rail	174945	9.4000e-004	8.5800e-003	7.2000e-003	5.0000e-005		6.5000e-004	6.5000e-004		6.5000e-004	6.5000e-004	0.0000	9.3358	9.3358	1.8000e-004	1.7000e-004	9.3912
Total		**1.0500e-003**	**9.5200e-003**	**7.6000e-003**	**6.0000e-005**		**7.3000e-004**	**7.3000e-004**		**7.3000e-004**	**7.3000e-004**	**0.0000**	**10.4217**	**10.4217**	**2.0000e-004**	**1.9000e-004**	**10.4836**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	4216.18	0.9402	4.0000e-005	1.0000e-005	0.9442
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	840	0.1873	1.0000e-005	0.0000	0.1881
Unrefrigerated Warehouse-No Rail	477009	106.3772	4.7600e-003	1.0800e-003	106.8186
Total		**107.5048**	**4.8100e-003**	**1.0900e-003**	**107.9509**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	4191.18	0.9347	4.0000e-005	1.0000e-005	0.9386
Other Asphalt Surfaces	-25	-0.0056	0.0000	0.0000	-0.0056
Parking Lot	815	0.1818	1.0000e-005	0.0000	0.1825
Unrefrigerated Warehouse-No Rail	476984	106.3717	4.7600e-003	1.0800e-003	106.8130
Total		**107.4825**	**4.8100e-003**	**1.0900e-003**	**107.9285**

6.0 Area Detail

6.1 Mitigation Measures Area

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive 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	0.5828	1.0000e-004	8.6900e-003	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.0145	0.0145	2.0000e-005	0.0000	0.0150
Unmitigated	0.5828	1.0000e-004	8.6900e-003	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.0145	0.0145	2.0000e-005	0.0000	0.0150

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	0.0702					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.5123					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.4000e-004	1.0000e-004	8.6900e-003	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.0145	0.0145	2.0000e-005	0.0000	0.0150
Total	**0.5828**	**1.0000e-004**	**8.6900e-003**	**0.0000**		**5.0000e-005**	**5.0000e-005**		**5.0000e-005**	**5.0000e-005**	**0.0000**	**0.0145**	**0.0145**	**2.0000e-005**	**0.0000**	**0.0150**

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	0.0702					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.5123					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.4000e-004	1.0000e-004	8.6900e-003	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.0145	0.0145	2.0000e-005	0.0000	0.0150
Total	**0.5828**	**1.0000e-004**	**8.6900e-003**	**0.0000**		**5.0000e-005**	**5.0000e-005**		**5.0000e-005**	**5.0000e-005**	**0.0000**	**0.0145**	**0.0145**	**2.0000e-005**	**0.0000**	**0.0150**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	44.4862	0.9521	0.0228	75.0835
Unmitigated	44.4862	0.9521	0.0228	75.0835

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	0.065154 / 0.0410754	0.1314	2.1300e-003	5.0000e-005	0.1998
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	29.1051 / 0	44.3549	0.9500	0.0228	74.8837
Total		**44.4862**	**0.9521**	**0.0228**	**75.0835**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	0.065154 / 0.0410754	0.1314	2.1300e-003	5.0000e-005	0.1998
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	29.1051 / 0	44.3549	0.9500	0.0228	74.8837
Total		**44.4862**	**0.9521**	**0.0228**	**75.0835**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	24.1092	1.4248	0.0000	59.7296
Unmitigated	24.1092	1.4248	0.0000	59.7296

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	0.46	0.0934	5.5200e-003	0.0000	0.2313
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	118.31	24.0159	1.4193	0.0000	59.4983
Total		**24.1092**	**1.4248**	**0.0000**	**59.7296**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	0.46	0.0934	5.5200e-003	0.0000	0.2313
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	118.31	24.0159	1.4193	0.0000	59.4983
Total		**24.1092**	**1.4248**	**0.0000**	**59.7296**

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Willow Avenue Self-storage Facility

Contra Costa County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	125.86	1000sqft	1.34	125,860.00	0
Other Asphalt Surfaces	1.94	Acre	1.94	84,506.40	0
Parking Lot	6.00	Space	0.05	2,400.00	0
Apartments Low Rise	1.00	Dwelling Unit	0.09	3,867.00	3

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	58
Climate Zone	5			**Operational Year**	2020
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	491.65	**CH4 Intensity (lb/MWhr)**	0.022	**N2O Intensity (lb/MWhr)**	0.005

1.3 User Entered Comments & Non-Default Data

Willow Avenue Self-storage Facility - Contra Costa County, Summer

Project Characteristics - PE&G Utility information adjusted based on Renewable Portfolio Standard

Land Use - information provided by RFI response

Construction Phase - construction schedule is provided by RFI response.
Confirmed by Client Bryan Wenter that the construction schedule would be 7 days per week.

Grading - based on Bryan Wenter's email on March 12, 2018, the cut and fill will be balance on site.

Vehicle Trips - from traffic study.

Woodstoves - no woodstove

Energy Use -

Construction Off-road Equipment Mitigation - Basic Construction Mitigation Measures, with Tier IV mitigation

Energy Mitigation - based on RFI response, the self-storage facility would consume 100KW renewable energy per year.

Area Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	11.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	5.00	60.00
tblConstructionPhase	NumDays	8.00	122.00
tblConstructionPhase	NumDays	230.00	213.00
tblConstructionPhase	NumDays	18.00	60.00
tblConstructionPhase	NumDays	18.00	91.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblFireplaces	FireplaceDayYear	11.14	0.00
tblFireplaces	FireplaceHourDay	3.50	0.00
tblFireplaces	FireplaceWoodMass	228.80	0.00
tblFireplaces	NumberGas	0.15	0.00
tblFireplaces	NumberNoFireplace	0.04	0.00

tblFireplaces	NumberWood	0.17	0.00
tblGrading	AcresOfGrading	61.00	4.00
tblLandUse	LandUseSquareFeet	1,000.00	3,867.00
tblLandUse	LotAcreage	2.89	1.34
tblLandUse	LotAcreage	0.06	0.09
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.022
tblProjectCharacteristics	CO2IntensityFactor	641.35	491.65
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.005
tblVehicleTrips	ST_TR	1.68	2.50
tblVehicleTrips	SU_TR	1.68	2.50
tblVehicleTrips	WD_TR	1.68	2.50
tblWoodstoves	NumberCatalytic	0.02	0.00
tblWoodstoves	NumberNoncatalytic	0.02	0.00
tblWoodstoves	WoodstoveDayYear	14.12	0.00
tblWoodstoves	WoodstoveWoodMass	582.40	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2018	4.6425	48.2494	23.1113	0.0396	18.2141	2.5779	20.7920	9.9699	2.3717	12.3416	0.0000	3,991.8732	3,991.8732	1.1976	0.0000	4,021.8134
2019	20.0843	40.3802	36.4169	0.0696	6.1801	2.1777	7.5783	3.3467	2.0428	4.6330	0.0000	6,844.6292	6,844.6292	1.3040	0.0000	6,877.2296
Maximum	**20.0843**	**48.2494**	**36.4169**	**0.0696**	**18.2141**	**2.5779**	**20.7920**	**9.9699**	**2.3717**	**12.3416**	**0.0000**	**6,844.6292**	**6,844.6292**	**1.3040**	**0.0000**	**6,877.2296**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2018	0.5453	2.0681	21.5040	0.0396	8.2777	0.0631	8.3408	4.5080	0.0630	4.5710	0.0000	3,991.8732	3,991.8732	1.1976	0.0000	4,021.8134
2019	16.7657	8.0201	37.9237	0.0696	2.8488	0.1135	2.8980	1.5240	0.1116	1.5731	0.0000	6,844.6292	6,844.6292	1.3040	0.0000	6,877.2296
Maximum	**16.7657**	**8.0201**	**37.9237**	**0.0696**	**8.2777**	**0.1135**	**8.3408**	**4.5080**	**0.1116**	**4.5710**	**0.0000**	**6,844.6292**	**6,844.6292**	**1.3040**	**0.0000**	**6,877.2296**

	ROG	NOx	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	**29.99**	**88.62**	**0.17**	**0.00**	**54.39**	**96.29**	**60.39**	**54.70**	**96.05**	**63.80**	**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	lb/day										lb/day					
Area	3.1952	1.0800e-003	0.0965	1.0000e-005		5.0000e-004	5.0000e-004		5.0000e-004	5.0000e-004	0.0000	0.1778	0.1778	2.2000e-004	0.0000	0.1834
Energy	5.7700e-003	0.0521	0.0417	3.1000e-004		3.9900e-003	3.9900e-003		3.9900e-003	3.9900e-003		62.9476	62.9476	1.2100e-003	1.1500e-003	63.3217
Mobile	0.6576	2.5588	7.4606	0.0245	1.9866	0.0224	2.0090	0.5316	0.0210	0.5526		2,465.7385	2,465.7385	0.0860		2,467.8894
Total	**3.8586**	**2.6120**	**7.5987**	**0.0248**	**1.9866**	**0.0269**	**2.0135**	**0.5316**	**0.0255**	**0.5571**	**0.0000**	**2,528.8639**	**2,528.8639**	**0.0875**	**1.1500e-003**	**2,531.3945**

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	lb/day										lb/day					
Area	3.1952	1.0800e-003	0.0965	1.0000e-005		5.0000e-004	5.0000e-004		5.0000e-004	5.0000e-004	0.0000	0.1778	0.1778	2.2000e-004	0.0000	0.1834
Energy	5.7700e-003	0.0521	0.0417	3.1000e-004		3.9900e-003	3.9900e-003		3.9900e-003	3.9900e-003		62.9476	62.9476	1.2100e-003	1.1500e-003	63.3217
Mobile	0.6576	2.5588	7.4606	0.0245	1.9866	0.0224	2.0090	0.5316	0.0210	0.5526		2,465.7385	2,465.7385	0.0860		2,467.8894
Total	**3.8586**	**2.6120**	**7.5987**	**0.0248**	**1.9866**	**0.0269**	**2.0135**	**0.5316**	**0.0255**	**0.5571**	**0.0000**	**2,528.8639**	**2,528.8639**	**0.0875**	**1.1500e-003**	**2,531.3945**

	ROG	NOx	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	Site Preparation	Site Preparation	10/1/2018	11/29/2018	7	60	
2	Grading	Grading	11/30/2018	3/31/2019	7	122	
3	Building Construction	Building Construction	4/1/2019	10/30/2019	7	213	
4	Paving	Paving	6/1/2019	7/30/2019	7	60	
5	Architectural Coating	Architectural Coating	6/1/2019	8/30/2019	7	91	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4

Acres of Paving: 1.99

Residential Indoor: 7,831; Residential Outdoor: 2,610; Non-Residential Indoor: 188,790; Non-Residential Outdoor: 62,930; Striped Parking Area: 5,214 (Architectural Coating – sqft)

OffRoad Equipment

Willow Avenue Self-storage Facility - Contra Costa County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	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
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	90.00	35.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Site Preparation - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.5627	48.1988	22.4763	0.0380		2.5769	2.5769		2.3708	2.3708		3,831.6239	3,831.6239	1.1928		3,861.4448
Total	**4.5627**	**48.1988**	**22.4763**	**0.0380**	**18.0663**	**2.5769**	**20.6432**	**9.9307**	**2.3708**	**12.3014**		**3,831.6239**	**3,831.6239**	**1.1928**		**3,861.4448**

3.2 Site Preparation - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0798	0.0506	0.6350	1.6100e-003	0.1479	9.9000e-004	0.1489	0.0392	9.2000e-004	0.0401		160.2493	160.2493	4.7700e-003		160.3687
Total	**0.0798**	**0.0506**	**0.6350**	**1.6100e-003**	**0.1479**	**9.9000e-004**	**0.1489**	**0.0392**	**9.2000e-004**	**0.0401**		**160.2493**	**160.2493**	**4.7700e-003**		**160.3687**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.1298	0.0000	8.1298	4.4688	0.0000	4.4688			0.0000			0.0000
Off-Road	0.4656	2.0175	20.8690	0.0380		0.0621	0.0621		0.0621	0.0621	0.0000	3,831.6239	3,831.6239	1.1928		3,861.4448
Total	**0.4656**	**2.0175**	**20.8690**	**0.0380**	**8.1298**	**0.0621**	**8.1919**	**4.4688**	**0.0621**	**4.5309**	**0.0000**	**3,831.6239**	**3,831.6239**	**1.1928**		**3,861.4448**

3.2 Site Preparation - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0798	0.0506	0.6350	1.6100e-003	0.1479	9.9000e-004	0.1489	0.0392	9.2000e-004	0.0401		160.2493	160.2493	4.7700e-003		160.3687
Total	**0.0798**	**0.0506**	**0.6350**	**1.6100e-003**	**0.1479**	**9.9000e-004**	**0.1489**	**0.0392**	**9.2000e-004**	**0.0401**		**160.2493**	**160.2493**	**4.7700e-003**		**160.3687**

3.3 Grading - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.0569	0.0000	6.0569	3.3140	0.0000	3.3140			0.0000			0.0000
Off-Road	2.7733	30.6725	16.5770	0.0297		1.5513	1.5513		1.4272	1.4272		2,988.0216	2,988.0216	0.9302		3,011.2769
Total	**2.7733**	**30.6725**	**16.5770**	**0.0297**	**6.0569**	**1.5513**	**7.6082**	**3.3140**	**1.4272**	**4.7412**		**2,988.0216**	**2,988.0216**	**0.9302**		**3,011.2769**

3.3 Grading - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0665	0.0422	0.5292	1.3400e-003	0.1232	8.3000e-004	0.1241	0.0327	7.6000e-004	0.0335		133.5411	133.5411	3.9800e-003		133.6405
Total	**0.0665**	**0.0422**	**0.5292**	**1.3400e-003**	**0.1232**	**8.3000e-004**	**0.1241**	**0.0327**	**7.6000e-004**	**0.0335**		**133.5411**	**133.5411**	**3.9800e-003**		**133.6405**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.7256	0.0000	2.7256	1.4913	0.0000	1.4913			0.0000			0.0000
Off-Road	0.3632	1.5737	17.7527	0.0297		0.0484	0.0484		0.0484	0.0484	0.0000	2,988.0216	2,988.0216	0.9302		3,011.2769
Total	**0.3632**	**1.5737**	**17.7527**	**0.0297**	**2.7256**	**0.0484**	**2.7740**	**1.4913**	**0.0484**	**1.5397**	**0.0000**	**2,988.0216**	**2,988.0216**	**0.9302**		**3,011.2769**

3.3 Grading - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0665	0.0422	0.5292	1.3400e-003	0.1232	8.3000e-004	0.1241	0.0327	7.6000e-004	0.0335		133.5411	133.5411	3.9800e-003		133.6405
Total	**0.0665**	**0.0422**	**0.5292**	**1.3400e-003**	**0.1232**	**8.3000e-004**	**0.1241**	**0.0327**	**7.6000e-004**	**0.0335**		**133.5411**	**133.5411**	**3.9800e-003**		**133.6405**

3.3 Grading - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.0569	0.0000	6.0569	3.3140	0.0000	3.3140			0.0000			0.0000
Off-Road	2.5805	28.3480	16.2934	0.0297		1.3974	1.3974		1.2856	1.2856		2,936.8068	2,936.8068	0.9292		2,960.0361
Total	**2.5805**	**28.3480**	**16.2934**	**0.0297**	**6.0569**	**1.3974**	**7.4542**	**3.3140**	**1.2856**	**4.5996**		**2,936.8068**	**2,936.8068**	**0.9292**		**2,960.0361**

3.3 Grading - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0599	0.0369	0.4699	1.3000e-003	0.1232	8.1000e-004	0.1240	0.0327	7.5000e-004	0.0334		129.5261	129.5261	3.5100e-003		129.6139
Total	**0.0599**	**0.0369**	**0.4699**	**1.3000e-003**	**0.1232**	**8.1000e-004**	**0.1240**	**0.0327**	**7.5000e-004**	**0.0334**		**129.5261**	**129.5261**	**3.5100e-003**		**129.6139**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.7256	0.0000	2.7256	1.4913	0.0000	1.4913			0.0000			0.0000
Off-Road	0.3632	1.5737	17.7527	0.0297		0.0484	0.0484		0.0484	0.0484	0.0000	2,936.8068	2,936.8068	0.9292		2,960.0361
Total	**0.3632**	**1.5737**	**17.7527**	**0.0297**	**2.7256**	**0.0484**	**2.7740**	**1.4913**	**0.0484**	**1.5397**	**0.0000**	**2,936.8068**	**2,936.8068**	**0.9292**		**2,960.0361**

3.3 Grading - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0599	0.0369	0.4699	1.3000e-003	0.1232	8.1000e-004	0.1240	0.0327	7.5000e-004	0.0334		129.5261	129.5261	3.5100e-003		129.6139
Total	**0.0599**	**0.0369**	**0.4699**	**1.3000e-003**	**0.1232**	**8.1000e-004**	**0.1240**	**0.0327**	**7.5000e-004**	**0.0334**		**129.5261**	**129.5261**	**3.5100e-003**		**129.6139**

3.4 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127		2,591.5802	2,591.5802	0.6313		2,607.3635
Total	**2.3612**	**21.0788**	**17.1638**	**0.0269**		**1.2899**	**1.2899**		**1.2127**	**1.2127**		**2,591.5802**	**2,591.5802**	**0.6313**		**2,607.3635**

3.4 Building Construction - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1707	4.3906	1.0892	9.7100e-003	0.2369	0.0326	0.2695	0.0682	0.0312	0.0994		1,022.9922	1,022.9922	0.0519		1,024.2886
Worker	0.3591	0.2215	2.8192	7.8000e-003	0.7393	4.8700e-003	0.7442	0.1961	4.4900e-003	0.2006		777.1568	777.1568	0.0211		777.6834
Total	**0.5298**	**4.6121**	**3.9084**	**0.0175**	**0.9762**	**0.0375**	**1.0137**	**0.2643**	**0.0357**	**0.3000**		**1,800.1491**	**1,800.1491**	**0.0729**		**1,801.9720**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0269		0.0408	0.0408		0.0408	0.0408	0.0000	2,591.5802	2,591.5802	0.6313		2,607.3635
Total	**0.3278**	**2.2347**	**17.4603**	**0.0269**		**0.0408**	**0.0408**		**0.0408**	**0.0408**	**0.0000**	**2,591.5802**	**2,591.5802**	**0.6313**		**2,607.3635**

3.4 Building Construction - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1707	4.3906	1.0892	9.7100e-003	0.2369	0.0326	0.2695	0.0682	0.0312	0.0994		1,022.9922	1,022.9922	0.0519		1,024.2886
Worker	0.3591	0.2215	2.8192	7.8000e-003	0.7393	4.8700e-003	0.7442	0.1961	4.4900e-003	0.2006		777.1568	777.1568	0.0211		777.6834
Total	**0.5298**	**4.6121**	**3.9084**	**0.0175**	**0.9762**	**0.0375**	**1.0137**	**0.2643**	**0.0357**	**0.3000**		**1,800.1491**	**1,800.1491**	**0.0729**		**1,801.9720**

3.5 Paving - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2679	12.7604	12.3130	0.0189		0.7196	0.7196		0.6637	0.6637		1,843.3191	1,843.3191	0.5671		1,857.4966
Paving	0.0869					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.3548**	**12.7604**	**12.3130**	**0.0189**		**0.7196**	**0.7196**		**0.6637**	**0.6637**		**1,843.3191**	**1,843.3191**	**0.5671**		**1,857.4966**

3.5 Paving - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0798	0.0492	0.6265	1.7300e-003	0.1643	1.0800e-003	0.1654	0.0436	1.0000e-003	0.0446		172.7015	172.7015	4.6800e-003		172.8185
Total	**0.0798**	**0.0492**	**0.6265**	**1.7300e-003**	**0.1643**	**1.0800e-003**	**0.1654**	**0.0436**	**1.0000e-003**	**0.0446**		**172.7015**	**172.7015**	**4.6800e-003**		**172.8185**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2194	0.9509	13.5323	0.0189		0.0293	0.0293		0.0293	0.0293	0.0000	1,843.3191	1,843.3191	0.5671		1,857.4966
Paving	0.0869					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.3063**	**0.9509**	**13.5323**	**0.0189**		**0.0293**	**0.0293**		**0.0293**	**0.0293**	**0.0000**	**1,843.3191**	**1,843.3191**	**0.5671**		**1,857.4966**

3.5 Paving - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0798	0.0492	0.6265	1.7300e-003	0.1643	1.0800e-003	0.1654	0.0436	1.0000e-003	0.0446		172.7015	172.7015	4.6800e-003		172.8185
Total	**0.0798**	**0.0492**	**0.6265**	**1.7300e-003**	**0.1643**	**1.0800e-003**	**0.1654**	**0.0436**	**1.0000e-003**	**0.0446**		**172.7015**	**172.7015**	**4.6800e-003**		**172.8185**

3.6 Architectural Coating - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	15.4204					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		282.0423
Total	**15.6868**	**1.8354**	**1.8413**	**2.9700e-003**		**0.1288**	**0.1288**		**0.1288**	**0.1288**		**281.4481**	**281.4481**	**0.0238**		**282.0423**

3.6 Architectural Coating - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0718	0.0443	0.5638	1.5600e-003	0.1479	9.7000e-004	0.1488	0.0392	9.0000e-004	0.0401		155.4314	155.4314	4.2100e-003		155.5367
Total	**0.0718**	**0.0443**	**0.5638**	**1.5600e-003**	**0.1479**	**9.7000e-004**	**0.1488**	**0.0392**	**9.0000e-004**	**0.0401**		**155.4314**	**155.4314**	**4.2100e-003**		**155.5367**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	15.4204					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0238		282.0423
Total	**15.4501**	**0.1288**	**1.8324**	**2.9700e-003**		**3.9600e-003**	**3.9600e-003**		**3.9600e-003**	**3.9600e-003**	**0.0000**	**281.4481**	**281.4481**	**0.0238**		**282.0423**

3.6 Architectural Coating - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0718	0.0443	0.5638	1.5600e-003	0.1479	9.7000e-004	0.1488	0.0392	9.0000e-004	0.0401		155.4314	155.4314	4.2100e-003		155.5367
Total	**0.0718**	**0.0443**	**0.5638**	**1.5600e-003**	**0.1479**	**9.7000e-004**	**0.1488**	**0.0392**	**9.0000e-004**	**0.0401**		**155.4314**	**155.4314**	**4.2100e-003**		**155.5367**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.6576	2.5588	7.4606	0.0245	1.9866	0.0224	2.0090	0.5316	0.0210	0.5526		2,465.7385	2,465.7385	0.0860		2,467.8894
Unmitigated	0.6576	2.5588	7.4606	0.0245	1.9866	0.0224	2.0090	0.5316	0.0210	0.5526		2,465.7385	2,465.7385	0.0860		2,467.8894

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	6.59	7.16	6.07	15,237	15,237
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	314.65	314.65	314.65	918,624	918,624
Total	321.24	321.81	320.72	933,861	933,861

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
Apartments Low Rise	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.577244	0.040114	0.186710	0.126359	0.018084	0.005120	0.010527	0.023222	0.001588	0.001850	0.005513	0.002759	0.000910
Other Asphalt Surfaces	0.577244	0.040114	0.186710	0.126359	0.018084	0.005120	0.010527	0.023222	0.001588	0.001850	0.005513	0.002759	0.000910
Parking Lot	0.577244	0.040114	0.186710	0.126359	0.018084	0.005120	0.010527	0.023222	0.001588	0.001850	0.005513	0.002759	0.000910
Unrefrigerated Warehouse-No Rail	0.577244	0.040114	0.186710	0.126359	0.018084	0.005120	0.010527	0.023222	0.001588	0.001850	0.005513	0.002759	0.000910

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Kilowatt Hours of Renewable Electricity Generated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	5.7700e-003	0.0521	0.0417	3.1000e-004		3.9900e-003	3.9900e-003		3.9900e-003	3.9900e-003		62.9476	62.9476	1.2100e-003	1.1500e-003	63.3217
NaturalGas Unmitigated	5.7700e-003	0.0521	0.0417	3.1000e-004		3.9900e-003	3.9900e-003		3.9900e-003	3.9900e-003		62.9476	62.9476	1.2100e-003	1.1500e-003	63.3217

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	55.7521	6.0000e-004	5.1400e-003	2.1900e-003	3.0000e-005		4.2000e-004	4.2000e-004		4.2000e-004	4.2000e-004		6.5591	6.5591	1.3000e-004	1.2000e-004	6.5980
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
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
Unrefrigerated Warehouse-No Rail	479.302	5.1700e-003	0.0470	0.0395	2.8000e-004		3.5700e-003	3.5700e-003		3.5700e-003	3.5700e-003		56.3885	56.3885	1.0800e-003	1.0300e-003	56.7236
Total		**5.7700e-003**	**0.0521**	**0.0417**	**3.1000e-004**		**3.9900e-003**	**3.9900e-003**		**3.9900e-003**	**3.9900e-003**		**62.9476**	**62.9476**	**1.2100e-003**	**1.1500e-003**	**63.3217**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	0.0557521	6.0000e-004	5.1400e-003	2.1900e-003	3.0000e-005		4.2000e-004	4.2000e-004		4.2000e-004	4.2000e-004		6.5591	6.5591	1.3000e-004	1.2000e-004	6.5980
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
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
Unrefrigerated Warehouse-No Rail	0.479302	5.1700e-003	0.0470	0.0395	2.8000e-004		3.5700e-003	3.5700e-003		3.5700e-003	3.5700e-003		56.3885	56.3885	1.0800e-003	1.0300e-003	56.7236
Total		**5.7700e-003**	**0.0521**	**0.0417**	**3.1000e-004**		**3.9900e-003**	**3.9900e-003**		**3.9900e-003**	**3.9900e-003**		**62.9476**	**62.9476**	**1.2100e-003**	**1.1500e-003**	**63.3217**

6.0 Area Detail

6.1 Mitigation Measures Area

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	3.1952	1.0800e-003	0.0965	1.0000e-005		5.0000e-004	5.0000e-004		5.0000e-004	5.0000e-004	0.0000	0.1778	0.1778	2.2000e-004	0.0000	0.1834
Unmitigated	3.1952	1.0800e-003	0.0965	1.0000e-005		5.0000e-004	5.0000e-004		5.0000e-004	5.0000e-004	0.0000	0.1778	0.1778	2.2000e-004	0.0000	0.1834

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.3845					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.8069					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.8100e-003	1.0800e-003	0.0965	1.0000e-005		5.0000e-004	5.0000e-004		5.0000e-004	5.0000e-004		0.1778	0.1778	2.2000e-004		0.1834
Total	**3.1952**	**1.0800e-003**	**0.0965**	**1.0000e-005**		**5.0000e-004**	**5.0000e-004**		**5.0000e-004**	**5.0000e-004**	**0.0000**	**0.1778**	**0.1778**	**2.2000e-004**	**0.0000**	**0.1834**

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	lb/day										lb/day					
Architectural Coating	0.3845					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.8069					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.8100e-003	1.0800e-003	0.0965	1.0000e-005		5.0000e-004	5.0000e-004		5.0000e-004	5.0000e-004		0.1778	0.1778	2.2000e-004		0.1834
Total	**3.1952**	**1.0800e-003**	**0.0965**	**1.0000e-005**		**5.0000e-004**	**5.0000e-004**		**5.0000e-004**	**5.0000e-004**	**0.0000**	**0.1778**	**0.1778**	**2.2000e-004**	**0.0000**	**0.1834**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Willow Avenue Self-storage Facility

Contra Costa County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	125.86	1000sqft	1.34	125,860.00	0
Other Asphalt Surfaces	1.94	Acre	1.94	84,506.40	0
Parking Lot	6.00	Space	0.05	2,400.00	0
Apartments Low Rise	1.00	Dwelling Unit	0.09	3,867.00	3

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	58
Climate Zone	5			**Operational Year**	2020
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	491.65	**CH4 Intensity (lb/MWhr)**	0.022	**N2O Intensity (lb/MWhr)**	0.005

1.3 User Entered Comments & Non-Default Data

Willow Avenue Self-storage Facility - Contra Costa County, Winter

Project Characteristics - PE&G Utility information adjusted based on Renewable Portfolio Standard

Land Use - information provided by RFI response

Construction Phase - construction schedule is provided by RFI response.
Confirmed by Client Bryan Wenter that the construction schedule would be 7 days per week.

Grading - based on Bryan Wenter's email on March 12, 2018, the cut and fill will be balance on site.

Vehicle Trips - from traffic study.

Woodstoves - no woodstove

Energy Use -

Construction Off-road Equipment Mitigation - Basic Construction Mitigation Measures, with Tier IV mitigation

Energy Mitigation - based on RFI response, the self-storage facility would consume 100KW renewable energy per year.

Area Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	11.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final

Willow Avenue Self-storage Facility - Contra Costa County, Winter

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	5.00	60.00
tblConstructionPhase	NumDays	8.00	122.00
tblConstructionPhase	NumDays	230.00	213.00
tblConstructionPhase	NumDays	18.00	60.00
tblConstructionPhase	NumDays	18.00	91.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblFireplaces	FireplaceDayYear	11.14	0.00
tblFireplaces	FireplaceHourDay	3.50	0.00
tblFireplaces	FireplaceWoodMass	228.80	0.00
tblFireplaces	NumberGas	0.15	0.00
tblFireplaces	NumberNoFireplace	0.04	0.00

tblFireplaces	NumberWood	0.17	0.00
tblGrading	AcresOfGrading	61.00	4.00
tblLandUse	LandUseSquareFeet	1,000.00	3,867.00
tblLandUse	LotAcreage	2.89	1.34
tblLandUse	LotAcreage	0.06	0.09
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.022
tblProjectCharacteristics	CO2IntensityFactor	641.35	491.65
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.005
tblVehicleTrips	ST_TR	1.68	2.50
tblVehicleTrips	SU_TR	1.68	2.50
tblVehicleTrips	WD_TR	1.68	2.50
tblWoodstoves	NumberCatalytic	0.02	0.00
tblWoodstoves	NumberNoncatalytic	0.02	0.00
tblWoodstoves	WoodstoveDayYear	14.12	0.00
tblWoodstoves	WoodstoveWoodMass	582.40	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2018	4.6437	48.2613	23.0661	0.0395	18.2141	2.5779	20.7920	9.9699	2.3717	12.3416	0.0000	3,976.8383	3,976.8383	1.1973	0.0000	4,006.7703
2019	20.0995	40.5145	36.2621	0.0683	6.1801	2.1782	7.5783	3.3467	2.0433	4.6330	0.0000	6,715.1495	6,715.1495	1.3065	0.0000	6,747.8128
Maximum	**20.0995**	**48.2613**	**36.2621**	**0.0683**	**18.2141**	**2.5779**	**20.7920**	**9.9699**	**2.3717**	**12.3416**	**0.0000**	**6,715.1495**	**6,715.1495**	**1.3065**	**0.0000**	**6,747.8128**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2018	0.5466	2.0800	21.4588	0.0395	8.2777	0.0631	8.3408	4.5080	0.0630	4.5710	0.0000	3,976.8383	3,976.8383	1.1973	0.0000	4,006.7703
2019	16.7809	8.1543	37.7690	0.0683	2.8488	0.1140	2.8980	1.5240	0.1121	1.5731	0.0000	6,715.1495	6,715.1495	1.3065	0.0000	6,747.8128
Maximum	**16.7809**	**8.1543**	**37.7690**	**0.0683**	**8.2777**	**0.1140**	**8.3408**	**4.5080**	**0.1121**	**4.5710**	**0.0000**	**6,715.1495**	**6,715.1495**	**1.3065**	**0.0000**	**6,747.8128**

	ROG	NOx	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	**29.97**	**88.47**	**0.17**	**0.00**	**54.39**	**96.28**	**60.39**	**54.70**	**96.04**	**63.80**	**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	lb/day										lb/day					
Area	3.1952	1.0800e-003	0.0965	1.0000e-005		5.0000e-004	5.0000e-004		5.0000e-004	5.0000e-004	0.0000	0.1778	0.1778	2.2000e-004	0.0000	0.1834
Energy	5.7700e-003	0.0521	0.0417	3.1000e-004		3.9900e-003	3.9900e-003		3.9900e-003	3.9900e-003		62.9476	62.9476	1.2100e-003	1.1500e-003	63.3217
Mobile	0.5513	2.7224	7.2684	0.0226	1.9866	0.0225	2.0092	0.5316	0.0211	0.5527		2,274.0602	2,274.0602	0.0861		2,276.2134
Total	**3.7523**	**2.7756**	**7.4066**	**0.0229**	**1.9866**	**0.0270**	**2.0137**	**0.5316**	**0.0256**	**0.5572**	**0.0000**	**2,337.1856**	**2,337.1856**	**0.0876**	**1.1500e-003**	**2,339.7184**

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	lb/day										lb/day					
Area	3.1952	1.0800e-003	0.0965	1.0000e-005		5.0000e-004	5.0000e-004		5.0000e-004	5.0000e-004	0.0000	0.1778	0.1778	2.2000e-004	0.0000	0.1834
Energy	5.7700e-003	0.0521	0.0417	3.1000e-004		3.9900e-003	3.9900e-003		3.9900e-003	3.9900e-003		62.9476	62.9476	1.2100e-003	1.1500e-003	63.3217
Mobile	0.5513	2.7224	7.2684	0.0226	1.9866	0.0225	2.0092	0.5316	0.0211	0.5527		2,274.0602	2,274.0602	0.0861		2,276.2134
Total	**3.7523**	**2.7756**	**7.4066**	**0.0229**	**1.9866**	**0.0270**	**2.0137**	**0.5316**	**0.0256**	**0.5572**	**0.0000**	**2,337.1856**	**2,337.1856**	**0.0876**	**1.1500e-003**	**2,339.7184**

	ROG	NOx	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	Site Preparation	Site Preparation	10/1/2018	11/29/2018	7	60	
2	Grading	Grading	11/30/2018	3/31/2019	7	122	
3	Building Construction	Building Construction	4/1/2019	10/30/2019	7	213	
4	Paving	Paving	6/1/2019	7/30/2019	7	60	
5	Architectural Coating	Architectural Coating	6/1/2019	8/30/2019	7	91	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4

Acres of Paving: 1.99

Residential Indoor: 7,831; Residential Outdoor: 2,610; Non-Residential Indoor: 188,790; Non-Residential Outdoor: 62,930; Striped Parking Area: 5,214 (Architectural Coating – sqft)

OffRoad Equipment

Willow Avenue Self-storage Facility - Contra Costa County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	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
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	90.00	35.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Site Preparation - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.5627	48.1988	22.4763	0.0380		2.5769	2.5769		2.3708	2.3708		3,831.6239	3,831.6239	1.1928		3,861.4448
Total	**4.5627**	**48.1988**	**22.4763**	**0.0380**	**18.0663**	**2.5769**	**20.6432**	**9.9307**	**2.3708**	**12.3014**		**3,831.6239**	**3,831.6239**	**1.1928**		**3,861.4448**

3.2 Site Preparation - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0810	0.0625	0.5898	1.4600e-003	0.1479	9.9000e-004	0.1489	0.0392	9.2000e-004	0.0401		145.2144	145.2144	4.4400e-003		145.3256
Total	**0.0810**	**0.0625**	**0.5898**	**1.4600e-003**	**0.1479**	**9.9000e-004**	**0.1489**	**0.0392**	**9.2000e-004**	**0.0401**		**145.2144**	**145.2144**	**4.4400e-003**		**145.3256**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.1298	0.0000	8.1298	4.4688	0.0000	4.4688			0.0000			0.0000
Off-Road	0.4656	2.0175	20.8690	0.0380		0.0621	0.0621		0.0621	0.0621	0.0000	3,831.6239	3,831.6239	1.1928		3,861.4448
Total	**0.4656**	**2.0175**	**20.8690**	**0.0380**	**8.1298**	**0.0621**	**8.1919**	**4.4688**	**0.0621**	**4.5309**	**0.0000**	**3,831.6239**	**3,831.6239**	**1.1928**		**3,861.4448**

3.2 Site Preparation - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0810	0.0625	0.5898	1.4600e-003	0.1479	9.9000e-004	0.1489	0.0392	9.2000e-004	0.0401		145.2144	145.2144	4.4400e-003		145.3256
Total	**0.0810**	**0.0625**	**0.5898**	**1.4600e-003**	**0.1479**	**9.9000e-004**	**0.1489**	**0.0392**	**9.2000e-004**	**0.0401**		**145.2144**	**145.2144**	**4.4400e-003**		**145.3256**

3.3 Grading - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.0569	0.0000	6.0569	3.3140	0.0000	3.3140			0.0000			0.0000
Off-Road	2.7733	30.6725	16.5770	0.0297		1.5513	1.5513		1.4272	1.4272		2,988.0216	2,988.0216	0.9302		3,011.2769
Total	**2.7733**	**30.6725**	**16.5770**	**0.0297**	**6.0569**	**1.5513**	**7.6082**	**3.3140**	**1.4272**	**4.7412**		**2,988.0216**	**2,988.0216**	**0.9302**		**3,011.2769**

3.3 Grading - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0675	0.0521	0.4915	1.2200e-003	0.1232	8.3000e-004	0.1241	0.0327	7.6000e-004	0.0335		121.0120	121.0120	3.7000e-003		121.1046
Total	**0.0675**	**0.0521**	**0.4915**	**1.2200e-003**	**0.1232**	**8.3000e-004**	**0.1241**	**0.0327**	**7.6000e-004**	**0.0335**		**121.0120**	**121.0120**	**3.7000e-003**		**121.1046**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.7256	0.0000	2.7256	1.4913	0.0000	1.4913			0.0000			0.0000
Off-Road	0.3632	1.5737	17.7527	0.0297		0.0484	0.0484		0.0484	0.0484	0.0000	2,988.0216	2,988.0216	0.9302		3,011.2769
Total	**0.3632**	**1.5737**	**17.7527**	**0.0297**	**2.7256**	**0.0484**	**2.7740**	**1.4913**	**0.0484**	**1.5397**	**0.0000**	**2,988.0216**	**2,988.0216**	**0.9302**		**3,011.2769**

3.3 Grading - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0675	0.0521	0.4915	1.2200e-003	0.1232	8.3000e-004	0.1241	0.0327	7.6000e-004	0.0335		121.0120	121.0120	3.7000e-003		121.1046
Total	**0.0675**	**0.0521**	**0.4915**	**1.2200e-003**	**0.1232**	**8.3000e-004**	**0.1241**	**0.0327**	**7.6000e-004**	**0.0335**		**121.0120**	**121.0120**	**3.7000e-003**		**121.1046**

3.3 Grading - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.0569	0.0000	6.0569	3.3140	0.0000	3.3140			0.0000			0.0000
Off-Road	2.5805	28.3480	16.2934	0.0297		1.3974	1.3974		1.2856	1.2856		2,936.8068	2,936.8068	0.9292		2,960.0361
Total	**2.5805**	**28.3480**	**16.2934**	**0.0297**	**6.0569**	**1.3974**	**7.4542**	**3.3140**	**1.2856**	**4.5996**		**2,936.8068**	**2,936.8068**	**0.9292**		**2,960.0361**

3.3 Grading - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0607	0.0456	0.4332	1.1800e-003	0.1232	8.1000e-004	0.1240	0.0327	7.5000e-004	0.0334		117.3595	117.3595	3.2500e-003		117.4408
Total	**0.0607**	**0.0456**	**0.4332**	**1.1800e-003**	**0.1232**	**8.1000e-004**	**0.1240**	**0.0327**	**7.5000e-004**	**0.0334**		**117.3595**	**117.3595**	**3.2500e-003**		**117.4408**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.7256	0.0000	2.7256	1.4913	0.0000	1.4913			0.0000			0.0000
Off-Road	0.3632	1.5737	17.7527	0.0297		0.0484	0.0484		0.0484	0.0484	0.0000	2,936.8068	2,936.8068	0.9292		2,960.0361
Total	**0.3632**	**1.5737**	**17.7527**	**0.0297**	**2.7256**	**0.0484**	**2.7740**	**1.4913**	**0.0484**	**1.5397**	**0.0000**	**2,936.8068**	**2,936.8068**	**0.9292**		**2,960.0361**

3.3 Grading - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0607	0.0456	0.4332	1.1800e-003	0.1232	8.1000e-004	0.1240	0.0327	7.5000e-004	0.0334		117.3595	117.3595	3.2500e-003		117.4408
Total	**0.0607**	**0.0456**	**0.4332**	**1.1800e-003**	**0.1232**	**8.1000e-004**	**0.1240**	**0.0327**	**7.5000e-004**	**0.0334**		**117.3595**	**117.3595**	**3.2500e-003**		**117.4408**

3.4 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127		2,591.5802	2,591.5802	0.6313		2,607.3635
Total	**2.3612**	**21.0788**	**17.1638**	**0.0269**		**1.2899**	**1.2899**		**1.2127**	**1.2127**		**2,591.5802**	**2,591.5802**	**0.6313**		**2,607.3635**

3.4 Building Construction - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1788	4.4511	1.2471	9.4700e-003	0.2369	0.0331	0.2700	0.0682	0.0317	0.0998		997.3344	997.3344	0.0566		998.7489
Worker	0.3641	0.2734	2.5994	7.0700e-003	0.7393	4.8700e-003	0.7442	0.1961	4.4900e-003	0.2006		704.1571	704.1571	0.0195		704.6448
Total	**0.5429**	**4.7245**	**3.8465**	**0.0165**	**0.9762**	**0.0380**	**1.0142**	**0.2643**	**0.0362**	**0.3004**		**1,701.4914**	**1,701.4914**	**0.0761**		**1,703.3937**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0269		0.0408	0.0408		0.0408	0.0408	0.0000	2,591.5802	2,591.5802	0.6313		2,607.3635
Total	**0.3278**	**2.2347**	**17.4603**	**0.0269**		**0.0408**	**0.0408**		**0.0408**	**0.0408**	**0.0000**	**2,591.5802**	**2,591.5802**	**0.6313**		**2,607.3635**

3.4 Building Construction - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1788	4.4511	1.2471	9.4700e-003	0.2369	0.0331	0.2700	0.0682	0.0317	0.0998		997.3344	997.3344	0.0566		998.7489
Worker	0.3641	0.2734	2.5994	7.0700e-003	0.7393	4.8700e-003	0.7442	0.1961	4.4900e-003	0.2006		704.1571	704.1571	0.0195		704.6448
Total	**0.5429**	**4.7245**	**3.8465**	**0.0165**	**0.9762**	**0.0380**	**1.0142**	**0.2643**	**0.0362**	**0.3004**		**1,701.4914**	**1,701.4914**	**0.0761**		**1,703.3937**

3.5 Paving - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2679	12.7604	12.3130	0.0189		0.7196	0.7196		0.6637	0.6637		1,843.3191	1,843.3191	0.5671		1,857.4966
Paving	0.0869					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.3548**	**12.7604**	**12.3130**	**0.0189**		**0.7196**	**0.7196**		**0.6637**	**0.6637**		**1,843.3191**	**1,843.3191**	**0.5671**		**1,857.4966**

3.5 Paving - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0809	0.0608	0.5776	1.5700e-003	0.1643	1.0800e-003	0.1654	0.0436	1.0000e-003	0.0446		156.4794	156.4794	4.3400e-003		156.5877
Total	**0.0809**	**0.0608**	**0.5776**	**1.5700e-003**	**0.1643**	**1.0800e-003**	**0.1654**	**0.0436**	**1.0000e-003**	**0.0446**		**156.4794**	**156.4794**	**4.3400e-003**		**156.5877**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2194	0.9509	13.5323	0.0189		0.0293	0.0293		0.0293	0.0293	0.0000	1,843.3191	1,843.3191	0.5671		1,857.4966
Paving	0.0869					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.3063**	**0.9509**	**13.5323**	**0.0189**		**0.0293**	**0.0293**		**0.0293**	**0.0293**	**0.0000**	**1,843.3191**	**1,843.3191**	**0.5671**		**1,857.4966**

3.5 Paving - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0809	0.0608	0.5776	1.5700e-003	0.1643	1.0800e-003	0.1654	0.0436	1.0000e-003	0.0446		156.4794	156.4794	4.3400e-003		156.5877
Total	**0.0809**	**0.0608**	**0.5776**	**1.5700e-003**	**0.1643**	**1.0800e-003**	**0.1654**	**0.0436**	**1.0000e-003**	**0.0446**		**156.4794**	**156.4794**	**4.3400e-003**		**156.5877**

3.6 Architectural Coating - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	15.4204					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		282.0423
Total	**15.6868**	**1.8354**	**1.8413**	**2.9700e-003**		**0.1288**	**0.1288**		**0.1288**	**0.1288**		**281.4481**	**281.4481**	**0.0238**		**282.0423**

3.6 Architectural Coating - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0728	0.0547	0.5199	1.4100e-003	0.1479	9.7000e-004	0.1488	0.0392	9.0000e-004	0.0401		140.8314	140.8314	3.9000e-003		140.9290
Total	**0.0728**	**0.0547**	**0.5199**	**1.4100e-003**	**0.1479**	**9.7000e-004**	**0.1488**	**0.0392**	**9.0000e-004**	**0.0401**		**140.8314**	**140.8314**	**3.9000e-003**		**140.9290**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	15.4204					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0238		282.0423
Total	**15.4501**	**0.1288**	**1.8324**	**2.9700e-003**		**3.9600e-003**	**3.9600e-003**		**3.9600e-003**	**3.9600e-003**	**0.0000**	**281.4481**	**281.4481**	**0.0238**		**282.0423**

3.6 Architectural Coating - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0728	0.0547	0.5199	1.4100e-003	0.1479	9.7000e-004	0.1488	0.0392	9.0000e-004	0.0401		140.8314	140.8314	3.9000e-003		140.9290
Total	**0.0728**	**0.0547**	**0.5199**	**1.4100e-003**	**0.1479**	**9.7000e-004**	**0.1488**	**0.0392**	**9.0000e-004**	**0.0401**		**140.8314**	**140.8314**	**3.9000e-003**		**140.9290**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.5513	2.7224	7.2684	0.0226	1.9866	0.0225	2.0092	0.5316	0.0211	0.5527		2,274.0602	2,274.0602	0.0861		2,276.2134
Unmitigated	0.5513	2.7224	7.2684	0.0226	1.9866	0.0225	2.0092	0.5316	0.0211	0.5527		2,274.0602	2,274.0602	0.0861		2,276.2134

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	6.59	7.16	6.07	15,237	15,237
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	314.65	314.65	314.65	918,624	918,624
Total	321.24	321.81	320.72	933,861	933,861

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
Apartments Low Rise	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.577244	0.040114	0.186710	0.126359	0.018084	0.005120	0.010527	0.023222	0.001588	0.001850	0.005513	0.002759	0.000910
Other Asphalt Surfaces	0.577244	0.040114	0.186710	0.126359	0.018084	0.005120	0.010527	0.023222	0.001588	0.001850	0.005513	0.002759	0.000910
Parking Lot	0.577244	0.040114	0.186710	0.126359	0.018084	0.005120	0.010527	0.023222	0.001588	0.001850	0.005513	0.002759	0.000910
Unrefrigerated Warehouse-No Rail	0.577244	0.040114	0.186710	0.126359	0.018084	0.005120	0.010527	0.023222	0.001588	0.001850	0.005513	0.002759	0.000910

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Kilowatt Hours of Renewable Electricity Generated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	5.7700e-003	0.0521	0.0417	3.1000e-004		3.9900e-003	3.9900e-003		3.9900e-003	3.9900e-003		62.9476	62.9476	1.2100e-003	1.1500e-003	63.3217
NaturalGas Unmitigated	5.7700e-003	0.0521	0.0417	3.1000e-004		3.9900e-003	3.9900e-003		3.9900e-003	3.9900e-003		62.9476	62.9476	1.2100e-003	1.1500e-003	63.3217

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	55.7521	6.0000e-004	5.1400e-003	2.1900e-003	3.0000e-005		4.2000e-004	4.2000e-004		4.2000e-004	4.2000e-004		6.5591	6.5591	1.3000e-004	1.2000e-004	6.5980
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
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
Unrefrigerated Warehouse-No Rail	479.302	5.1700e-003	0.0470	0.0395	2.8000e-004		3.5700e-003	3.5700e-003		3.5700e-003	3.5700e-003		56.3885	56.3885	1.0800e-003	1.0300e-003	56.7236
Total		**5.7700e-003**	**0.0521**	**0.0417**	**3.1000e-004**		**3.9900e-003**	**3.9900e-003**		**3.9900e-003**	**3.9900e-003**		**62.9476**	**62.9476**	**1.2100e-003**	**1.1500e-003**	**63.3217**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	0.0557521	6.0000e-004	5.1400e-003	2.1900e-003	3.0000e-005		4.2000e-004	4.2000e-004		4.2000e-004	4.2000e-004		6.5591	6.5591	1.3000e-004	1.2000e-004	6.5980
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
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
Unrefrigerated Warehouse-No Rail	0.479302	5.1700e-003	0.0470	0.0395	2.8000e-004		3.5700e-003	3.5700e-003		3.5700e-003	3.5700e-003		56.3885	56.3885	1.0800e-003	1.0300e-003	56.7236
Total		**5.7700e-003**	**0.0521**	**0.0417**	**3.1000e-004**		**3.9900e-003**	**3.9900e-003**		**3.9900e-003**	**3.9900e-003**		**62.9476**	**62.9476**	**1.2100e-003**	**1.1500e-003**	**63.3217**

6.0 Area Detail

6.1 Mitigation Measures Area

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	3.1952	1.0800e-003	0.0965	1.0000e-005		5.0000e-004	5.0000e-004		5.0000e-004	5.0000e-004	0.0000	0.1778	0.1778	2.2000e-004	0.0000	0.1834
Unmitigated	3.1952	1.0800e-003	0.0965	1.0000e-005		5.0000e-004	5.0000e-004		5.0000e-004	5.0000e-004	0.0000	0.1778	0.1778	2.2000e-004	0.0000	0.1834

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.3845					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.8069					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.8100e-003	1.0800e-003	0.0965	1.0000e-005		5.0000e-004	5.0000e-004		5.0000e-004	5.0000e-004		0.1778	0.1778	2.2000e-004		0.1834
Total	**3.1952**	**1.0800e-003**	**0.0965**	**1.0000e-005**		**5.0000e-004**	**5.0000e-004**		**5.0000e-004**	**5.0000e-004**	**0.0000**	**0.1778**	**0.1778**	**2.2000e-004**	**0.0000**	**0.1834**

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	lb/day										lb/day					
Architectural Coating	0.3845					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.8069					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.8100e-003	1.0800e-003	0.0965	1.0000e-005		5.0000e-004	5.0000e-004		5.0000e-004	5.0000e-004		0.1778	0.1778	2.2000e-004		0.1834
Total	**3.1952**	**1.0800e-003**	**0.0965**	**1.0000e-005**		**5.0000e-004**	**5.0000e-004**		**5.0000e-004**	**5.0000e-004**	**0.0000**	**0.1778**	**0.1778**	**2.2000e-004**	**0.0000**	**0.1834**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Willow Ave Automobile Service Facility

Contra Costa County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	1.98	Acre	1.98	86,248.80	0
Parking Lot	69.00	Space	0.62	27,600.00	0
Automobile Care Center	17.86	1000sqft	0.41	17,860.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	58
Climate Zone	5			**Operational Year**	2020
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	491.56	**CH4 Intensity (lb/MWhr)**	0.022	**N2O Intensity (lb/MWhr)**	0.005

1.3 User Entered Comments & Non-Default Data

Project Characteristics - PG&E Utility information adjusted based on Renewable Portfolio Standard

Land Use - info from RFI response

Construction Phase - info based on RFI response. Client wants to have a 7-day per week work schedule.

Grading - info from Bryan Wenter's email on March 12, 2018.

Construction Off-road Equipment Mitigation - Basic Construction Mitigation Measures, and tier III MM

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	11.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	5.00	60.00

tblConstructionPhase	NumDays	8.00	121.00
tblConstructionPhase	NumDays	230.00	152.00
tblConstructionPhase	NumDays	18.00	60.00
tblConstructionPhase	NumDays	18.00	31.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblGrading	AcresOfGrading	60.50	3.25
tblGrading	MaterialExported	0.00	1,250.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.022
tblProjectCharacteristics	CO2IntensityFactor	641.35	491.56
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.005
tblVehicleTrips	ST_TR	23.72	76.15
tblVehicleTrips	SU_TR	11.88	76.15
tblVehicleTrips	WD_TR	23.72	76.15

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					
2018	0.1846	1.9459	0.9655	1.7000e-003	0.6474	0.1022	0.7496	0.3530	0.0940	0.4470	0.0000	155.0260	155.0260	0.0462	0.0000	156.1813
2019	0.4859	3.5205	2.6419	4.9200e-003	0.3260	0.1857	0.5117	0.1627	0.1731	0.3358	0.0000	439.4498	439.4498	0.1004	0.0000	441.9606
Maximum	**0.4859**	**3.5205**	**2.6419**	**4.9200e-003**	**0.6474**	**0.1857**	**0.7496**	**0.3530**	**0.1731**	**0.4470**	**0.0000**	**439.4498**	**439.4498**	**0.1004**	**0.0000**	**441.9606**

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					
2018	0.0429	0.8186	1.0186	1.7000e-003	0.2953	0.0405	0.3359	0.1599	0.0405	0.2005	0.0000	155.0258	155.0258	0.0462	0.0000	156.1811
2019	0.2471	2.2810	2.8523	4.9200e-003	0.1776	0.1214	0.2990	0.0816	0.1214	0.2029	0.0000	439.4494	439.4494	0.1004	0.0000	441.9602
Maximum	**0.2471**	**2.2810**	**2.8523**	**4.9200e-003**	**0.2953**	**0.1214**	**0.3359**	**0.1599**	**0.1214**	**0.2029**	**0.0000**	**439.4494**	**439.4494**	**0.1004**	**0.0000**	**441.9602**

	ROG	**NOx**	**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	**56.74**	**43.30**	**-7.31**	**0.00**	**51.42**	**43.74**	**49.66**	**53.17**	**39.40**	**48.47**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**10-1-2018**	**12-31-2018**	2.1312	0.8622
2	**1-1-2019**	**3-31-2019**	1.3995	0.7159
3	**4-1-2019**	**6-30-2019**	0.3998	0.2717
4	**7-1-2019**	**9-30-2019**	1.6591	1.1309
		Highest	2.1312	1.1309

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	0.0889	1.0000e-005	8.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.5900e-003	1.5900e-003	0.0000	0.0000	1.6900e-003
Energy	2.3800e-003	0.0217	0.0182	1.3000e-004		1.6500e-003	1.6500e-003		1.6500e-003	1.6500e-003	0.0000	55.8480	55.8480	1.9000e-003	7.6000e-004	56.1221
Mobile	0.3200	1.2033	2.6615	6.6700e-003	0.5061	6.9700e-003	0.5130	0.1358	6.5300e-003	0.1423	0.0000	610.2870	610.2870	0.0310	0.0000	611.0616
Waste						0.0000	0.0000		0.0000	0.0000	13.8501	0.0000	13.8501	0.8185	0.0000	34.3130
Water						0.0000	0.0000		0.0000	0.0000	0.5331	2.8309	3.3640	0.0549	1.3200e-003	5.1298
Total	**0.4113**	**1.2249**	**2.6805**	**6.8000e-003**	**0.5061**	**8.6200e-003**	**0.5147**	**0.1358**	**8.1800e-003**	**0.1440**	**14.3832**	**668.9675**	**683.3507**	**0.9063**	**2.0800e-003**	**706.6281**

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	0.0889	1.0000e-005	8.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.5900e-003	1.5900e-003	0.0000	0.0000	1.6900e-003
Energy	2.3800e-003	0.0217	0.0182	1.3000e-004		1.6500e-003	1.6500e-003		1.6500e-003	1.6500e-003	0.0000	55.8480	55.8480	1.9000e-003	7.6000e-004	56.1221
Mobile	0.3200	1.2033	2.6615	6.6700e-003	0.5061	6.9700e-003	0.5130	0.1358	6.5300e-003	0.1423	0.0000	610.2870	610.2870	0.0310	0.0000	611.0616
Waste						0.0000	0.0000		0.0000	0.0000	13.8501	0.0000	13.8501	0.8185	0.0000	34.3130
Water						0.0000	0.0000		0.0000	0.0000	0.4051	2.1515	2.5566	0.0417	1.0000e-003	3.8987
Total	**0.4113**	**1.2249**	**2.6805**	**6.8000e-003**	**0.5061**	**8.6200e-003**	**0.5147**	**0.1358**	**8.1800e-003**	**0.1440**	**14.2552**	**668.2881**	**682.5433**	**0.8931**	**1.7600e-003**	**705.3970**

	ROG	NOx	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**	**0.89**	**0.10**	**0.12**	**1.45**	**15.38**	**0.17**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	10/1/2018	11/29/2018	7	60	
2	Grading	Grading	11/30/2018	3/30/2019	7	121	
3	Building Construction	Building Construction	6/1/2019	10/30/2019	7	152	
4	Paving	Paving	8/1/2019	9/29/2019	7	60	
5	Architectural Coating	Architectural Coating	9/30/2019	10/30/2019	7	31	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 3.25

Acres of Paving: 2.6

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 26,790; Non-Residential Outdoor: 8,930; Striped Parking Area: 6,831 (Architectural Coating – sqft)

OffRoad Equipment

Willow Ave Automobile Service Facility - Contra Costa County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	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
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	156.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	54.00	22.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	11.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Site Preparation - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.5420	0.0000	0.5420	0.2979	0.0000	0.2979	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1369	1.4460	0.6743	1.1400e-003		0.0773	0.0773		0.0711	0.0711	0.0000	104.2797	104.2797	0.0325	0.0000	105.0913
Total	**0.1369**	**1.4460**	**0.6743**	**1.1400e-003**	**0.5420**	**0.0773**	**0.6193**	**0.2979**	**0.0711**	**0.3690**	**0.0000**	**104.2797**	**104.2797**	**0.0325**	**0.0000**	**105.0913**

3.2 Site Preparation - 2018

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	2.2100e-003	1.7000e-003	0.0172	4.0000e-005	4.2800e-003	3.0000e-005	4.3100e-003	1.1400e-003	3.0000e-005	1.1700e-003	0.0000	4.0014	4.0014	1.2000e-004	0.0000	4.0044
Total	**2.2100e-003**	**1.7000e-003**	**0.0172**	**4.0000e-005**	**4.2800e-003**	**3.0000e-005**	**4.3100e-003**	**1.1400e-003**	**3.0000e-005**	**1.1700e-003**	**0.0000**	**4.0014**	**4.0014**	**1.2000e-004**	**0.0000**	**4.0044**

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					0.2439	0.0000	0.2439	0.1341	0.0000	0.1341	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0279	0.5720	0.6888	1.1400e-003		0.0284	0.0284		0.0284	0.0284	0.0000	104.2796	104.2796	0.0325	0.0000	105.0912
Total	**0.0279**	**0.5720**	**0.6888**	**1.1400e-003**	**0.2439**	**0.0284**	**0.2723**	**0.1341**	**0.0284**	**0.1624**	**0.0000**	**104.2796**	**104.2796**	**0.0325**	**0.0000**	**105.0912**

3.2 Site Preparation - 2018

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	2.2100e-003	1.7000e-003	0.0172	4.0000e-005	4.2800e-003	3.0000e-005	4.3100e-003	1.1400e-003	3.0000e-005	1.1700e-003	0.0000	4.0014	4.0014	1.2000e-004	0.0000	4.0044
Total	**2.2100e-003**	**1.7000e-003**	**0.0172**	**4.0000e-005**	**4.2800e-003**	**3.0000e-005**	**4.3100e-003**	**1.1400e-003**	**3.0000e-005**	**1.1700e-003**	**0.0000**	**4.0014**	**4.0014**	**1.2000e-004**	**0.0000**	**4.0044**

3.3 Grading - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0982	0.0000	0.0982	0.0532	0.0000	0.0532	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0444	0.4908	0.2652	4.7000e-004		0.0248	0.0248		0.0228	0.0228	0.0000	43.3710	43.3710	0.0135	0.0000	43.7086
Total	**0.0444**	**0.4908**	**0.2652**	**4.7000e-004**	**0.0982**	**0.0248**	**0.1230**	**0.0532**	**0.0228**	**0.0760**	**0.0000**	**43.3710**	**43.3710**	**0.0135**	**0.0000**	**43.7086**

3.3 Grading - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.0000e-004	6.7600e-003	1.2000e-003	2.0000e-005	1.0800e-003	3.0000e-005	1.1100e-003	2.7000e-004	3.0000e-005	3.0000e-004	0.0000	1.5955	1.5955	7.0000e-005	0.0000	1.5973
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	9.8000e-004	7.6000e-004	7.6300e-003	2.0000e-005	1.9000e-003	1.0000e-005	1.9200e-003	5.1000e-004	1.0000e-005	5.2000e-004	0.0000	1.7784	1.7784	5.0000e-005	0.0000	1.7797
Total	**1.1800e-003**	**7.5200e-003**	**8.8300e-003**	**4.0000e-005**	**2.9800e-003**	**4.0000e-005**	**3.0300e-003**	**7.8000e-004**	**4.0000e-005**	**8.2000e-004**	**0.0000**	**3.3739**	**3.3739**	**1.2000e-004**	**0.0000**	**3.3771**

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					0.0442	0.0000	0.0442	0.0239	0.0000	0.0239	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0116	0.2374	0.3039	4.7000e-004		0.0121	0.0121		0.0121	0.0121	0.0000	43.3710	43.3710	0.0135	0.0000	43.7085
Total	**0.0116**	**0.2374**	**0.3039**	**4.7000e-004**	**0.0442**	**0.0121**	**0.0563**	**0.0239**	**0.0121**	**0.0360**	**0.0000**	**43.3710**	**43.3710**	**0.0135**	**0.0000**	**43.7085**

3.3 Grading - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.0000e-004	6.7600e-003	1.2000e-003	2.0000e-005	1.0800e-003	3.0000e-005	1.1100e-003	2.7000e-004	3.0000e-005	3.0000e-004	0.0000	1.5955	1.5955	7.0000e-005	0.0000	1.5973
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	9.8000e-004	7.6000e-004	7.6300e-003	2.0000e-005	1.9000e-003	1.0000e-005	1.9200e-003	5.1000e-004	1.0000e-005	5.2000e-004	0.0000	1.7784	1.7784	5.0000e-005	0.0000	1.7797
Total	**1.1800e-003**	**7.5200e-003**	**8.8300e-003**	**4.0000e-005**	**2.9800e-003**	**4.0000e-005**	**3.0300e-003**	**7.8000e-004**	**4.0000e-005**	**8.2000e-004**	**0.0000**	**3.3739**	**3.3739**	**1.2000e-004**	**0.0000**	**3.3771**

3.3 Grading - 2019

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					0.2698	0.0000	0.2698	0.1475	0.0000	0.1475	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1148	1.2615	0.7251	1.3200e-003		0.0622	0.0622		0.0572	0.0572	0.0000	118.5581	118.5581	0.0375	0.0000	119.4958
Total	**0.1148**	**1.2615**	**0.7251**	**1.3200e-003**	**0.2698**	**0.0622**	**0.3320**	**0.1475**	**0.0572**	**0.2047**	**0.0000**	**118.5581**	**118.5581**	**0.0375**	**0.0000**	**119.4958**

3.3 Grading - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.2000e-004	0.0179	3.2700e-003	5.0000e-005	1.2300e-003	7.0000e-005	1.3000e-003	3.3000e-004	7.0000e-005	4.0000e-004	0.0000	4.3941	4.3941	2.0000e-004	0.0000	4.3991
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	2.4600e-003	1.8400e-003	0.0188	5.0000e-005	5.2900e-003	4.0000e-005	5.3300e-003	1.4100e-003	3.0000e-005	1.4400e-003	0.0000	4.7970	4.7970	1.3000e-004	0.0000	4.8002
Total	**2.9800e-003**	**0.0197**	**0.0220**	**1.0000e-004**	**6.5200e-003**	**1.1000e-004**	**6.6300e-003**	**1.7400e-003**	**1.0000e-004**	**1.8400e-003**	**0.0000**	**9.1910**	**9.1910**	**3.3000e-004**	**0.0000**	**9.1993**

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					0.1214	0.0000	0.1214	0.0664	0.0000	0.0664	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0323	0.6604	0.8451	1.3200e-003		0.0336	0.0336		0.0336	0.0336	0.0000	118.5579	118.5579	0.0375	0.0000	119.4957
Total	**0.0323**	**0.6604**	**0.8451**	**1.3200e-003**	**0.1214**	**0.0336**	**0.1550**	**0.0664**	**0.0336**	**0.1000**	**0.0000**	**118.5579**	**118.5579**	**0.0375**	**0.0000**	**119.4957**

3.3 Grading - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.2000e-004	0.0179	3.2700e-003	5.0000e-005	1.2300e-003	7.0000e-005	1.3000e-003	3.3000e-004	7.0000e-005	4.0000e-004	0.0000	4.3941	4.3941	2.0000e-004	0.0000	4.3991
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	2.4600e-003	1.8400e-003	0.0188	5.0000e-005	5.2900e-003	4.0000e-005	5.3300e-003	1.4100e-003	3.0000e-005	1.4400e-003	0.0000	4.7970	4.7970	1.3000e-004	0.0000	4.8002
Total	**2.9800e-003**	**0.0197**	**0.0220**	**1.0000e-004**	**6.5200e-003**	**1.1000e-004**	**6.6300e-003**	**1.7400e-003**	**1.0000e-004**	**1.8400e-003**	**0.0000**	**9.1910**	**9.1910**	**3.3000e-004**	**0.0000**	**9.1993**

3.4 Building Construction - 2019

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	0.1795	1.6020	1.3045	2.0500e-003		0.0980	0.0980		0.0922	0.0922	0.0000	178.6792	178.6792	0.0435	0.0000	179.7674
Total	**0.1795**	**1.6020**	**1.3045**	**2.0500e-003**		**0.0980**	**0.0980**		**0.0922**	**0.0922**	**0.0000**	**178.6792**	**178.6792**	**0.0435**	**0.0000**	**179.7674**

3.4 Building Construction - 2019

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	8.2900e-003	0.2127	0.0555	4.6000e-004	0.0110	1.5700e-003	0.0126	3.1800e-003	1.5000e-003	4.6800e-003	0.0000	43.8667	43.8667	2.3400e-003	0.0000	43.9251
Worker	0.0151	0.0113	0.1153	3.3000e-004	0.0326	2.2000e-004	0.0328	8.6600e-003	2.0000e-004	8.8600e-003	0.0000	29.4932	29.4932	8.0000e-004	0.0000	29.5133
Total	**0.0234**	**0.2240**	**0.1708**	**7.9000e-004**	**0.0436**	**1.7900e-003**	**0.0453**	**0.0118**	**1.7000e-003**	**0.0135**	**0.0000**	**73.3599**	**73.3599**	**3.1400e-003**	**0.0000**	**73.4384**

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	0.0512	1.0812	1.3584	2.0500e-003		0.0687	0.0687		0.0687	0.0687	0.0000	178.6790	178.6790	0.0435	0.0000	179.7672
Total	**0.0512**	**1.0812**	**1.3584**	**2.0500e-003**		**0.0687**	**0.0687**		**0.0687**	**0.0687**	**0.0000**	**178.6790**	**178.6790**	**0.0435**	**0.0000**	**179.7672**

3.4 Building Construction - 2019

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	8.2900e-003	0.2127	0.0555	4.6000e-004	0.0110	1.5700e-003	0.0126	3.1800e-003	1.5000e-003	4.6800e-003	0.0000	43.8667	43.8667	2.3400e-003	0.0000	43.9251
Worker	0.0151	0.0113	0.1153	3.3000e-004	0.0326	2.2000e-004	0.0328	8.6600e-003	2.0000e-004	8.8600e-003	0.0000	29.4932	29.4932	8.0000e-004	0.0000	29.5133
Total	**0.0234**	**0.2240**	**0.1708**	**7.9000e-004**	**0.0436**	**1.7900e-003**	**0.0453**	**0.0118**	**1.7000e-003**	**0.0135**	**0.0000**	**73.3599**	**73.3599**	**3.1400e-003**	**0.0000**	**73.4384**

3.5 Paving - 2019

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	0.0380	0.3828	0.3694	5.7000e-004		0.0216	0.0216		0.0199	0.0199	0.0000	50.1669	50.1669	0.0154	0.0000	50.5528
Paving	3.4100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0415**	**0.3828**	**0.3694**	**5.7000e-004**		**0.0216**	**0.0216**		**0.0199**	**0.0199**	**0.0000**	**50.1669**	**50.1669**	**0.0154**	**0.0000**	**50.5528**

3.5 Paving - 2019

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	2.2100e-003	1.6500e-003	0.0169	5.0000e-005	4.7600e-003	3.0000e-005	4.7900e-003	1.2700e-003	3.0000e-005	1.3000e-003	0.0000	4.3119	4.3119	1.2000e-004	0.0000	4.3148
Total	**2.2100e-003**	**1.6500e-003**	**0.0169**	**5.0000e-005**	**4.7600e-003**	**3.0000e-005**	**4.7900e-003**	**1.2700e-003**	**3.0000e-005**	**1.3000e-003**	**0.0000**	**4.3119**	**4.3119**	**1.2000e-004**	**0.0000**	**4.3148**

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	0.0132	0.2727	0.4060	5.7000e-004		0.0157	0.0157		0.0157	0.0157	0.0000	50.1669	50.1669	0.0154	0.0000	50.5527
Paving	3.4100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0166**	**0.2727**	**0.4060**	**5.7000e-004**		**0.0157**	**0.0157**		**0.0157**	**0.0157**	**0.0000**	**50.1669**	**50.1669**	**0.0154**	**0.0000**	**50.5527**

3.5 Paving - 2019

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	2.2100e-003	1.6500e-003	0.0169	5.0000e-005	4.7600e-003	3.0000e-005	4.7900e-003	1.2700e-003	3.0000e-005	1.3000e-003	0.0000	4.3119	4.3119	1.2000e-004	0.0000	4.3148
Total	**2.2100e-003**	**1.6500e-003**	**0.0169**	**5.0000e-005**	**4.7600e-003**	**3.0000e-005**	**4.7900e-003**	**1.2700e-003**	**3.0000e-005**	**1.3000e-003**	**0.0000**	**4.3119**	**4.3119**	**1.2000e-004**	**0.0000**	**4.3148**

3.6 Architectural Coating - 2019

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	0.1169					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.1300e-003	0.0285	0.0285	5.0000e-005		2.0000e-003	2.0000e-003		2.0000e-003	2.0000e-003	0.0000	3.9575	3.9575	3.3000e-004	0.0000	3.9659
Total	**0.1210**	**0.0285**	**0.0285**	**5.0000e-005**		**2.0000e-003**	**2.0000e-003**		**2.0000e-003**	**2.0000e-003**	**0.0000**	**3.9575**	**3.9575**	**3.3000e-004**	**0.0000**	**3.9659**

3.6 Architectural Coating - 2019

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	6.3000e-004	4.7000e-004	4.7900e-003	1.0000e-005	1.3500e-003	1.0000e-005	1.3600e-003	3.6000e-004	1.0000e-005	3.7000e-004	0.0000	1.2253	1.2253	3.0000e-005	0.0000	1.2261
Total	**6.3000e-004**	**4.7000e-004**	**4.7900e-003**	**1.0000e-005**	**1.3500e-003**	**1.0000e-005**	**1.3600e-003**	**3.6000e-004**	**1.0000e-005**	**3.7000e-004**	**0.0000**	**1.2253**	**1.2253**	**3.0000e-005**	**0.0000**	**1.2261**

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	0.1169					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.2000e-004	0.0210	0.0284	5.0000e-005		1.4700e-003	1.4700e-003		1.4700e-003	1.4700e-003	0.0000	3.9575	3.9575	3.3000e-004	0.0000	3.9659
Total	**0.1178**	**0.0210**	**0.0284**	**5.0000e-005**		**1.4700e-003**	**1.4700e-003**		**1.4700e-003**	**1.4700e-003**	**0.0000**	**3.9575**	**3.9575**	**3.3000e-004**	**0.0000**	**3.9659**

3.6 Architectural Coating - 2019

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	6.3000e-004	4.7000e-004	4.7900e-003	1.0000e-005	1.3500e-003	1.0000e-005	1.3600e-003	3.6000e-004	1.0000e-005	3.7000e-004	0.0000	1.2253	1.2253	3.0000e-005	0.0000	1.2261
Total	**6.3000e-004**	**4.7000e-004**	**4.7900e-003**	**1.0000e-005**	**1.3500e-003**	**1.0000e-005**	**1.3600e-003**	**3.6000e-004**	**1.0000e-005**	**3.7000e-004**	**0.0000**	**1.2253**	**1.2253**	**3.0000e-005**	**0.0000**	**1.2261**

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	0.3200	1.2033	2.6615	6.6700e-003	0.5061	6.9700e-003	0.5130	0.1358	6.5300e-003	0.1423	0.0000	610.2870	610.2870	0.0310	0.0000	611.0616
Unmitigated	0.3200	1.2033	2.6615	6.6700e-003	0.5061	6.9700e-003	0.5130	0.1358	6.5300e-003	0.1423	0.0000	610.2870	610.2870	0.0310	0.0000	611.0616

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Automobile Care Center	1,360.04	1,360.04	1360.04	1,354,852	1,354,852
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	1,360.04	1,360.04	1,360.04	1,354,852	1,354,852

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
Automobile Care Center	9.50	7.30	7.30	33.00	48.00	19.00	21	51	28
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Automobile Care Center	0.577244	0.040114	0.186710	0.126359	0.018084	0.005120	0.010527	0.023222	0.001588	0.001850	0.005513	0.002759	0.000910
Other Asphalt Surfaces	0.577244	0.040114	0.186710	0.126359	0.018084	0.005120	0.010527	0.023222	0.001588	0.001850	0.005513	0.002759	0.000910
Parking Lot	0.577244	0.040114	0.186710	0.126359	0.018084	0.005120	0.010527	0.023222	0.001588	0.001850	0.005513	0.002759	0.000910

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	32.2594	32.2594	1.4400e-003	3.3000e-004	32.3932
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	32.2594	32.2594	1.4400e-003	3.3000e-004	32.3932
NaturalGas Mitigated	2.3800e-003	0.0217	0.0182	1.3000e-004		1.6500e-003	1.6500e-003		1.6500e-003	1.6500e-003	0.0000	23.5887	23.5887	4.5000e-004	4.3000e-004	23.7289
NaturalGas Unmitigated	2.3800e-003	0.0217	0.0182	1.3000e-004		1.6500e-003	1.6500e-003		1.6500e-003	1.6500e-003	0.0000	23.5887	23.5887	4.5000e-004	4.3000e-004	23.7289

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					
Automobile Care Center	442035	2.3800e-003	0.0217	0.0182	1.3000e-004		1.6500e-003	1.6500e-003		1.6500e-003	1.6500e-003	0.0000	23.5887	23.5887	4.5000e-004	4.3000e-004	23.7289
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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		**2.3800e-003**	**0.0217**	**0.0182**	**1.3000e-004**		**1.6500e-003**	**1.6500e-003**		**1.6500e-003**	**1.6500e-003**	**0.0000**	**23.5887**	**23.5887**	**4.5000e-004**	**4.3000e-004**	**23.7289**

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					
Automobile Care Center	442035	2.3800e-003	0.0217	0.0182	1.3000e-004		1.6500e-003	1.6500e-003		1.6500e-003	1.6500e-003	0.0000	23.5887	23.5887	4.5000e-004	4.3000e-004	23.7289
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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		**2.3800e-003**	**0.0217**	**0.0182**	**1.3000e-004**		**1.6500e-003**	**1.6500e-003**		**1.6500e-003**	**1.6500e-003**	**0.0000**	**23.5887**	**23.5887**	**4.5000e-004**	**4.3000e-004**	**23.7289**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Automobile Care Center	135022	30.1055	1.3500e-003	3.1000e-004	30.2304
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	9660	2.1539	1.0000e-004	2.0000e-005	2.1628
Total		**32.2594**	**1.4500e-003**	**3.3000e-004**	**32.3932**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Automobile Care Center	135022	30.1055	1.3500e-003	3.1000e-004	30.2304
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	9660	2.1539	1.0000e-004	2.0000e-005	2.1628
Total		**32.2594**	**1.4500e-003**	**3.3000e-004**	**32.3932**

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	0.0889	1.0000e-005	8.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.5900e-003	1.5900e-003	0.0000	0.0000	1.6900e-003
Unmitigated	0.0889	1.0000e-005	8.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.5900e-003	1.5900e-003	0.0000	0.0000	1.6900e-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	0.0117					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0771					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	8.0000e-005	1.0000e-005	8.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.5900e-003	1.5900e-003	0.0000	0.0000	1.6900e-003
Total	**0.0889**	**1.0000e-005**	**8.2000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**1.5900e-003**	**1.5900e-003**	**0.0000**	**0.0000**	**1.6900e-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	0.0117					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0771					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	8.0000e-005	1.0000e-005	8.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.5900e-003	1.5900e-003	0.0000	0.0000	1.6900e-003
Total	**0.0889**	**1.0000e-005**	**8.2000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**1.5900e-003**	**1.5900e-003**	**0.0000**	**0.0000**	**1.6900e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

Use Reclaimed Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	2.5566	0.0417	1.0000e-003	3.8987
Unmitigated	3.3640	0.0549	1.3200e-003	5.1298

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Automobile Care Center	1.68029 / 1.02985	3.3640	0.0549	1.3200e-003	5.1298
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**3.3640**	**0.0549**	**1.3200e-003**	**5.1298**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Automobile Care Center	1.27702 / 0.782689	2.5566	0.0417	1.0000e-003	3.8987
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**2.5566**	**0.0417**	**1.0000e-003**	**3.8987**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	13.8501	0.8185	0.0000	34.3130
Unmitigated	13.8501	0.8185	0.0000	34.3130

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Automobile Care Center	68.23	13.8501	0.8185	0.0000	34.3130
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		**13.8501**	**0.8185**	**0.0000**	**34.3130**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Automobile Care Center	68.23	13.8501	0.8185	0.0000	34.3130
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		**13.8501**	**0.8185**	**0.0000**	**34.3130**

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Willow Ave Automobile Service Facility

Contra Costa County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	1.98	Acre	1.98	86,248.80	0
Parking Lot	69.00	Space	0.62	27,600.00	0
Automobile Care Center	17.86	1000sqft	0.41	17,860.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	58
Climate Zone	5			**Operational Year**	2020
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	491.56	**CH4 Intensity (lb/MWhr)**	0.022	**N2O Intensity (lb/MWhr)**	0.005

1.3 User Entered Comments & Non-Default Data

Project Characteristics - PG&E Utility information adjusted based on Renewable Portfolio Standard

Land Use - info from RFI response

Construction Phase - info based on RFI response. Client wants to have a 7-day per week work schedule.

Grading - info from Bryan Wenter's email on March 12, 2018.

Vehicle Trips - Traffic study categories land use types as "tire store", "automobile care center", "carwash self-service", and "car wash automated". However, CalEEMod does not provide all these land use types. Therefore, we consider all these land sites as "automobile care center". The trip rate is adjusted by the total daily trips divided by project site size.

Energy Use -

Construction Off-road Equipment Mitigation - Basic Construction Mitigation Measures, tier IV mitigation measures

Water Mitigation - Apply AB 2230 Recycled Water for car washes

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	11.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	18.00	31.00
tblConstructionPhase	NumDays	230.00	152.00
tblConstructionPhase	NumDays	8.00	121.00
tblConstructionPhase	NumDays	18.00	60.00
tblConstructionPhase	NumDays	5.00	60.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblConstructionPhase	PhaseEndDate	10/24/2019	10/30/2019
tblConstructionPhase	PhaseEndDate	9/4/2019	10/30/2019
tblConstructionPhase	PhaseEndDate	10/17/2018	3/30/2019
tblConstructionPhase	PhaseEndDate	9/30/2019	9/29/2019
tblConstructionPhase	PhaseEndDate	10/5/2018	11/29/2018
tblConstructionPhase	PhaseStartDate	10/1/2019	9/30/2019

tblConstructionPhase	PhaseStartDate	10/18/2018	6/1/2019
tblConstructionPhase	PhaseStartDate	10/6/2018	11/30/2018
tblConstructionPhase	PhaseStartDate	9/5/2019	8/1/2019
tblGrading	AcresOfGrading	60.50	3.25
tblGrading	MaterialExported	0.00	1,250.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.022
tblProjectCharacteristics	CO2IntensityFactor	641.35	491.56
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.005
tblVehicleTrips	ST_TR	23.72	76.15
tblVehicleTrips	SU_TR	11.88	76.15
tblVehicleTrips	WD_TR	23.72	76.15

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					
2018	0.1846	1.9459	0.9655	1.7000e-003	0.6474	0.1022	0.7496	0.3530	0.0940	0.4470	0.0000	155.0260	155.0260	0.0462	0.0000	156.1813
2019	0.4859	3.5205	2.6419	4.9200e-003	0.3260	0.1857	0.5117	0.1627	0.1731	0.3358	0.0000	439.4498	439.4498	0.1004	0.0000	441.9606
Maximum	**0.4859**	**3.5205**	**2.6419**	**4.9200e-003**	**0.6474**	**0.1857**	**0.7496**	**0.3530**	**0.1731**	**0.4470**	**0.0000**	**439.4498**	**439.4498**	**0.1004**	**0.0000**	**441.9606**

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					
2018	0.0232	0.0949	0.9361	1.7000e-003	0.2953	2.7100e-003	0.2980	0.1599	2.7000e-003	0.1626	0.0000	155.0258	155.0258	0.0462	0.0000	156.1811
2019	0.1976	0.5162	2.7658	4.9200e-003	0.1776	8.1300e-003	0.1857	0.0816	8.0400e-003	0.0896	0.0000	439.4494	439.4494	0.1004	0.0000	441.9602
Maximum	**0.1976**	**0.5162**	**2.7658**	**4.9200e-003**	**0.2953**	**8.1300e-003**	**0.2980**	**0.1599**	**8.0400e-003**	**0.1626**	**0.0000**	**439.4494**	**439.4494**	**0.1004**	**0.0000**	**441.9602**

	ROG	**NOx**	**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	**67.08**	**88.82**	**-2.62**	**0.00**	**51.42**	**96.24**	**61.65**	**53.17**	**95.98**	**67.78**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**10-1-2018**	**12-31-2018**	2.1312	0.1187
2	**1-1-2019**	**3-31-2019**	1.3995	0.1094
3	**4-1-2019**	**6-30-2019**	0.3998	0.0867
4	**7-1-2019**	**9-30-2019**	1.6591	0.3121
		Highest	2.1312	0.3121

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	0.0889	1.0000e-005	8.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.5900e-003	1.5900e-003	0.0000	0.0000	1.6900e-003
Energy	2.3800e-003	0.0217	0.0182	1.3000e-004		1.6500e-003	1.6500e-003		1.6500e-003	1.6500e-003	0.0000	55.8480	55.8480	1.9000e-003	7.6000e-004	56.1221
Mobile	0.3200	1.2033	2.6615	6.6700e-003	0.5061	6.9700e-003	0.5130	0.1358	6.5300e-003	0.1423	0.0000	610.2870	610.2870	0.0310	0.0000	611.0616
Waste						0.0000	0.0000		0.0000	0.0000	13.8501	0.0000	13.8501	0.8185	0.0000	34.3130
Water						0.0000	0.0000		0.0000	0.0000	0.5331	2.8309	3.3640	0.0549	1.3200e-003	5.1298
Total	**0.4113**	**1.2249**	**2.6805**	**6.8000e-003**	**0.5061**	**8.6200e-003**	**0.5147**	**0.1358**	**8.1800e-003**	**0.1440**	**14.3832**	**668.9675**	**683.3507**	**0.9063**	**2.0800e-003**	**706.6281**

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	0.0889	1.0000e-005	8.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.5900e-003	1.5900e-003	0.0000	0.0000	1.6900e-003
Energy	2.3800e-003	0.0217	0.0182	1.3000e-004		1.6500e-003	1.6500e-003		1.6500e-003	1.6500e-003	0.0000	55.8480	55.8480	1.9000e-003	7.6000e-004	56.1221
Mobile	0.3200	1.2033	2.6615	6.6700e-003	0.5061	6.9700e-003	0.5130	0.1358	6.5300e-003	0.1423	0.0000	610.2870	610.2870	0.0310	0.0000	611.0616
Waste						0.0000	0.0000		0.0000	0.0000	13.8501	0.0000	13.8501	0.8185	0.0000	34.3130
Water						0.0000	0.0000		0.0000	0.0000	0.4051	2.1515	2.5566	0.0417	1.0000e-003	3.8987
Total	**0.4113**	**1.2249**	**2.6805**	**6.8000e-003**	**0.5061**	**8.6200e-003**	**0.5147**	**0.1358**	**8.1800e-003**	**0.1440**	**14.2552**	**668.2881**	**682.5433**	**0.8931**	**1.7600e-003**	**705.3970**

	ROG	NOx	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**	**0.89**	**0.10**	**0.12**	**1.45**	**15.38**	**0.17**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	10/1/2018	11/29/2018	7	60	
2	Grading	Grading	11/30/2018	3/30/2019	7	121	
3	Building Construction	Building Construction	6/1/2019	10/30/2019	7	152	
4	Paving	Paving	8/1/2019	9/29/2019	7	60	
5	Architectural Coating	Architectural Coating	9/30/2019	10/30/2019	7	31	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 3.25

Acres of Paving: 2.6

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 26,790; Non-Residential Outdoor: 8,930; Striped Parking Area: 6,831 (Architectural Coating – sqft)

OffRoad Equipment

Willow Ave Automobile Service Facility - Contra Costa County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	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
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	156.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	54.00	22.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	11.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Site Preparation - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.5420	0.0000	0.5420	0.2979	0.0000	0.2979	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1369	1.4460	0.6743	1.1400e-003		0.0773	0.0773		0.0711	0.0711	0.0000	104.2797	104.2797	0.0325	0.0000	105.0913
Total	**0.1369**	**1.4460**	**0.6743**	**1.1400e-003**	**0.5420**	**0.0773**	**0.6193**	**0.2979**	**0.0711**	**0.3690**	**0.0000**	**104.2797**	**104.2797**	**0.0325**	**0.0000**	**105.0913**

3.2 Site Preparation - 2018

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	2.2100e-003	1.7000e-003	0.0172	4.0000e-005	4.2800e-003	3.0000e-005	4.3100e-003	1.1400e-003	3.0000e-005	1.1700e-003	0.0000	4.0014	4.0014	1.2000e-004	0.0000	4.0044
Total	**2.2100e-003**	**1.7000e-003**	**0.0172**	**4.0000e-005**	**4.2800e-003**	**3.0000e-005**	**4.3100e-003**	**1.1400e-003**	**3.0000e-005**	**1.1700e-003**	**0.0000**	**4.0014**	**4.0014**	**1.2000e-004**	**0.0000**	**4.0044**

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					0.2439	0.0000	0.2439	0.1341	0.0000	0.1341	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0140	0.0605	0.6261	1.1400e-003		1.8600e-003	1.8600e-003		1.8600e-003	1.8600e-003	0.0000	104.2796	104.2796	0.0325	0.0000	105.0912
Total	**0.0140**	**0.0605**	**0.6261**	**1.1400e-003**	**0.2439**	**1.8600e-003**	**0.2458**	**0.1341**	**1.8600e-003**	**0.1359**	**0.0000**	**104.2796**	**104.2796**	**0.0325**	**0.0000**	**105.0912**

3.2 Site Preparation - 2018

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	2.2100e-003	1.7000e-003	0.0172	4.0000e-005	4.2800e-003	3.0000e-005	4.3100e-003	1.1400e-003	3.0000e-005	1.1700e-003	0.0000	4.0014	4.0014	1.2000e-004	0.0000	4.0044
Total	**2.2100e-003**	**1.7000e-003**	**0.0172**	**4.0000e-005**	**4.2800e-003**	**3.0000e-005**	**4.3100e-003**	**1.1400e-003**	**3.0000e-005**	**1.1700e-003**	**0.0000**	**4.0014**	**4.0014**	**1.2000e-004**	**0.0000**	**4.0044**

3.3 Grading - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0982	0.0000	0.0982	0.0532	0.0000	0.0532	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0444	0.4908	0.2652	4.7000e-004		0.0248	0.0248		0.0228	0.0228	0.0000	43.3710	43.3710	0.0135	0.0000	43.7086
Total	**0.0444**	**0.4908**	**0.2652**	**4.7000e-004**	**0.0982**	**0.0248**	**0.1230**	**0.0532**	**0.0228**	**0.0760**	**0.0000**	**43.3710**	**43.3710**	**0.0135**	**0.0000**	**43.7086**

3.3 Grading - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.0000e-004	6.7600e-003	1.2000e-003	2.0000e-005	1.0800e-003	3.0000e-005	1.1100e-003	2.7000e-004	3.0000e-005	3.0000e-004	0.0000	1.5955	1.5955	7.0000e-005	0.0000	1.5973
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	9.8000e-004	7.6000e-004	7.6300e-003	2.0000e-005	1.9000e-003	1.0000e-005	1.9200e-003	5.1000e-004	1.0000e-005	5.2000e-004	0.0000	1.7784	1.7784	5.0000e-005	0.0000	1.7797
Total	**1.1800e-003**	**7.5200e-003**	**8.8300e-003**	**4.0000e-005**	**2.9800e-003**	**4.0000e-005**	**3.0300e-003**	**7.8000e-004**	**4.0000e-005**	**8.2000e-004**	**0.0000**	**3.3739**	**3.3739**	**1.2000e-004**	**0.0000**	**3.3771**

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					0.0442	0.0000	0.0442	0.0239	0.0000	0.0239	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.8100e-003	0.0252	0.2840	4.7000e-004		7.7000e-004	7.7000e-004		7.7000e-004	7.7000e-004	0.0000	43.3710	43.3710	0.0135	0.0000	43.7085
Total	**5.8100e-003**	**0.0252**	**0.2840**	**4.7000e-004**	**0.0442**	**7.7000e-004**	**0.0449**	**0.0239**	**7.7000e-004**	**0.0247**	**0.0000**	**43.3710**	**43.3710**	**0.0135**	**0.0000**	**43.7085**

3.3 Grading - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.0000e-004	6.7600e-003	1.2000e-003	2.0000e-005	1.0800e-003	3.0000e-005	1.1100e-003	2.7000e-004	3.0000e-005	3.0000e-004	0.0000	1.5955	1.5955	7.0000e-005	0.0000	1.5973
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	9.8000e-004	7.6000e-004	7.6300e-003	2.0000e-005	1.9000e-003	1.0000e-005	1.9200e-003	5.1000e-004	1.0000e-005	5.2000e-004	0.0000	1.7784	1.7784	5.0000e-005	0.0000	1.7797
Total	**1.1800e-003**	**7.5200e-003**	**8.8300e-003**	**4.0000e-005**	**2.9800e-003**	**4.0000e-005**	**3.0300e-003**	**7.8000e-004**	**4.0000e-005**	**8.2000e-004**	**0.0000**	**3.3739**	**3.3739**	**1.2000e-004**	**0.0000**	**3.3771**

3.3 Grading - 2019

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					0.2698	0.0000	0.2698	0.1475	0.0000	0.1475	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1148	1.2615	0.7251	1.3200e-003		0.0622	0.0622		0.0572	0.0572	0.0000	118.5581	118.5581	0.0375	0.0000	119.4958
Total	**0.1148**	**1.2615**	**0.7251**	**1.3200e-003**	**0.2698**	**0.0622**	**0.3320**	**0.1475**	**0.0572**	**0.2047**	**0.0000**	**118.5581**	**118.5581**	**0.0375**	**0.0000**	**119.4958**

3.3 Grading - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.2000e-004	0.0179	3.2700e-003	5.0000e-005	1.2300e-003	7.0000e-005	1.3000e-003	3.3000e-004	7.0000e-005	4.0000e-004	0.0000	4.3941	4.3941	2.0000e-004	0.0000	4.3991
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	2.4600e-003	1.8400e-003	0.0188	5.0000e-005	5.2900e-003	4.0000e-005	5.3300e-003	1.4100e-003	3.0000e-005	1.4400e-003	0.0000	4.7970	4.7970	1.3000e-004	0.0000	4.8002
Total	**2.9800e-003**	**0.0197**	**0.0220**	**1.0000e-004**	**6.5200e-003**	**1.1000e-004**	**6.6300e-003**	**1.7400e-003**	**1.0000e-004**	**1.8400e-003**	**0.0000**	**9.1910**	**9.1910**	**3.3000e-004**	**0.0000**	**9.1993**

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					0.1214	0.0000	0.1214	0.0664	0.0000	0.0664	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0162	0.0700	0.7900	1.3200e-003		2.1500e-003	2.1500e-003		2.1500e-003	2.1500e-003	0.0000	118.5579	118.5579	0.0375	0.0000	119.4957
Total	**0.0162**	**0.0700**	**0.7900**	**1.3200e-003**	**0.1214**	**2.1500e-003**	**0.1236**	**0.0664**	**2.1500e-003**	**0.0685**	**0.0000**	**118.5579**	**118.5579**	**0.0375**	**0.0000**	**119.4957**

3.3 Grading - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.2000e-004	0.0179	3.2700e-003	5.0000e-005	1.2300e-003	7.0000e-005	1.3000e-003	3.3000e-004	7.0000e-005	4.0000e-004	0.0000	4.3941	4.3941	2.0000e-004	0.0000	4.3991
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	2.4600e-003	1.8400e-003	0.0188	5.0000e-005	5.2900e-003	4.0000e-005	5.3300e-003	1.4100e-003	3.0000e-005	1.4400e-003	0.0000	4.7970	4.7970	1.3000e-004	0.0000	4.8002
Total	**2.9800e-003**	**0.0197**	**0.0220**	**1.0000e-004**	**6.5200e-003**	**1.1000e-004**	**6.6300e-003**	**1.7400e-003**	**1.0000e-004**	**1.8400e-003**	**0.0000**	**9.1910**	**9.1910**	**3.3000e-004**	**0.0000**	**9.1993**

3.4 Building Construction - 2019

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	0.1795	1.6020	1.3045	2.0500e-003		0.0980	0.0980		0.0922	0.0922	0.0000	178.6792	178.6792	0.0435	0.0000	179.7674
Total	**0.1795**	**1.6020**	**1.3045**	**2.0500e-003**		**0.0980**	**0.0980**		**0.0922**	**0.0922**	**0.0000**	**178.6792**	**178.6792**	**0.0435**	**0.0000**	**179.7674**

3.4 Building Construction - 2019

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	8.2900e-003	0.2127	0.0555	4.6000e-004	0.0110	1.5700e-003	0.0126	3.1800e-003	1.5000e-003	4.6800e-003	0.0000	43.8667	43.8667	2.3400e-003	0.0000	43.9251
Worker	0.0151	0.0113	0.1153	3.3000e-004	0.0326	2.2000e-004	0.0328	8.6600e-003	2.0000e-004	8.8600e-003	0.0000	29.4932	29.4932	8.0000e-004	0.0000	29.5133
Total	**0.0234**	**0.2240**	**0.1708**	**7.9000e-004**	**0.0436**	**1.7900e-003**	**0.0453**	**0.0118**	**1.7000e-003**	**0.0135**	**0.0000**	**73.3599**	**73.3599**	**3.1400e-003**	**0.0000**	**73.4384**

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	0.0249	0.1698	1.3270	2.0500e-003		3.1000e-003	3.1000e-003		3.1000e-003	3.1000e-003	0.0000	178.6790	178.6790	0.0435	0.0000	179.7672
Total	**0.0249**	**0.1698**	**1.3270**	**2.0500e-003**		**3.1000e-003**	**3.1000e-003**		**3.1000e-003**	**3.1000e-003**	**0.0000**	**178.6790**	**178.6790**	**0.0435**	**0.0000**	**179.7672**

3.4 Building Construction - 2019

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	8.2900e-003	0.2127	0.0555	4.6000e-004	0.0110	1.5700e-003	0.0126	3.1800e-003	1.5000e-003	4.6800e-003	0.0000	43.8667	43.8667	2.3400e-003	0.0000	43.9251
Worker	0.0151	0.0113	0.1153	3.3000e-004	0.0326	2.2000e-004	0.0328	8.6600e-003	2.0000e-004	8.8600e-003	0.0000	29.4932	29.4932	8.0000e-004	0.0000	29.5133
Total	**0.0234**	**0.2240**	**0.1708**	**7.9000e-004**	**0.0436**	**1.7900e-003**	**0.0453**	**0.0118**	**1.7000e-003**	**0.0135**	**0.0000**	**73.3599**	**73.3599**	**3.1400e-003**	**0.0000**	**73.4384**

3.5 Paving - 2019

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	0.0380	0.3828	0.3694	5.7000e-004		0.0216	0.0216		0.0199	0.0199	0.0000	50.1669	50.1669	0.0154	0.0000	50.5528
Paving	3.4100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0415**	**0.3828**	**0.3694**	**5.7000e-004**		**0.0216**	**0.0216**		**0.0199**	**0.0199**	**0.0000**	**50.1669**	**50.1669**	**0.0154**	**0.0000**	**50.5528**

3.5 Paving - 2019

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	2.2100e-003	1.6500e-003	0.0169	5.0000e-005	4.7600e-003	3.0000e-005	4.7900e-003	1.2700e-003	3.0000e-005	1.3000e-003	0.0000	4.3119	4.3119	1.2000e-004	0.0000	4.3148
Total	**2.2100e-003**	**1.6500e-003**	**0.0169**	**5.0000e-005**	**4.7600e-003**	**3.0000e-005**	**4.7900e-003**	**1.2700e-003**	**3.0000e-005**	**1.3000e-003**	**0.0000**	**4.3119**	**4.3119**	**1.2000e-004**	**0.0000**	**4.3148**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	6.5800e-003	0.0285	0.4060	5.7000e-004		8.8000e-004	8.8000e-004		8.8000e-004	8.8000e-004	0.0000	50.1669	50.1669	0.0154	0.0000	50.5527
Paving	3.4100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**9.9900e-003**	**0.0285**	**0.4060**	**5.7000e-004**		**8.8000e-004**	**8.8000e-004**		**8.8000e-004**	**8.8000e-004**	**0.0000**	**50.1669**	**50.1669**	**0.0154**	**0.0000**	**50.5527**

3.5 Paving - 2019

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	2.2100e-003	1.6500e-003	0.0169	5.0000e-005	4.7600e-003	3.0000e-005	4.7900e-003	1.2700e-003	3.0000e-005	1.3000e-003	0.0000	4.3119	4.3119	1.2000e-004	0.0000	4.3148
Total	**2.2100e-003**	**1.6500e-003**	**0.0169**	**5.0000e-005**	**4.7600e-003**	**3.0000e-005**	**4.7900e-003**	**1.2700e-003**	**3.0000e-005**	**1.3000e-003**	**0.0000**	**4.3119**	**4.3119**	**1.2000e-004**	**0.0000**	**4.3148**

3.6 Architectural Coating - 2019

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	0.1169					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.1300e-003	0.0285	0.0285	5.0000e-005		2.0000e-003	2.0000e-003		2.0000e-003	2.0000e-003	0.0000	3.9575	3.9575	3.3000e-004	0.0000	3.9659
Total	**0.1210**	**0.0285**	**0.0285**	**5.0000e-005**		**2.0000e-003**	**2.0000e-003**		**2.0000e-003**	**2.0000e-003**	**0.0000**	**3.9575**	**3.9575**	**3.3000e-004**	**0.0000**	**3.9659**

3.6 Architectural Coating - 2019

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	6.3000e-004	4.7000e-004	4.7900e-003	1.0000e-005	1.3500e-003	1.0000e-005	1.3600e-003	3.6000e-004	1.0000e-005	3.7000e-004	0.0000	1.2253	1.2253	3.0000e-005	0.0000	1.2261
Total	**6.3000e-004**	**4.7000e-004**	**4.7900e-003**	**1.0000e-005**	**1.3500e-003**	**1.0000e-005**	**1.3600e-003**	**3.6000e-004**	**1.0000e-005**	**3.7000e-004**	**0.0000**	**1.2253**	**1.2253**	**3.0000e-005**	**0.0000**	**1.2261**

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	0.1169					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.6000e-004	2.0000e-003	0.0284	5.0000e-005		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	3.9575	3.9575	3.3000e-004	0.0000	3.9659
Total	**0.1173**	**2.0000e-003**	**0.0284**	**5.0000e-005**		**6.0000e-005**	**6.0000e-005**		**6.0000e-005**	**6.0000e-005**	**0.0000**	**3.9575**	**3.9575**	**3.3000e-004**	**0.0000**	**3.9659**

3.6 Architectural Coating - 2019

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	6.3000e-004	4.7000e-004	4.7900e-003	1.0000e-005	1.3500e-003	1.0000e-005	1.3600e-003	3.6000e-004	1.0000e-005	3.7000e-004	0.0000	1.2253	1.2253	3.0000e-005	0.0000	1.2261
Total	**6.3000e-004**	**4.7000e-004**	**4.7900e-003**	**1.0000e-005**	**1.3500e-003**	**1.0000e-005**	**1.3600e-003**	**3.6000e-004**	**1.0000e-005**	**3.7000e-004**	**0.0000**	**1.2253**	**1.2253**	**3.0000e-005**	**0.0000**	**1.2261**

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	0.3200	1.2033	2.6615	6.6700e-003	0.5061	6.9700e-003	0.5130	0.1358	6.5300e-003	0.1423	0.0000	610.2870	610.2870	0.0310	0.0000	611.0616
Unmitigated	0.3200	1.2033	2.6615	6.6700e-003	0.5061	6.9700e-003	0.5130	0.1358	6.5300e-003	0.1423	0.0000	610.2870	610.2870	0.0310	0.0000	611.0616

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Automobile Care Center	1,360.04	1,360.04	1360.04	1,354,852	1,354,852
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	1,360.04	1,360.04	1,360.04	1,354,852	1,354,852

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
Automobile Care Center	9.50	7.30	7.30	33.00	48.00	19.00	21	51	28
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Automobile Care Center	0.577244	0.040114	0.186710	0.126359	0.018084	0.005120	0.010527	0.023222	0.001588	0.001850	0.005513	0.002759	0.000910
Other Asphalt Surfaces	0.577244	0.040114	0.186710	0.126359	0.018084	0.005120	0.010527	0.023222	0.001588	0.001850	0.005513	0.002759	0.000910
Parking Lot	0.577244	0.040114	0.186710	0.126359	0.018084	0.005120	0.010527	0.023222	0.001588	0.001850	0.005513	0.002759	0.000910

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	32.2594	32.2594	1.4400e-003	3.3000e-004	32.3932
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	32.2594	32.2594	1.4400e-003	3.3000e-004	32.3932
NaturalGas Mitigated	2.3800e-003	0.0217	0.0182	1.3000e-004		1.6500e-003	1.6500e-003		1.6500e-003	1.6500e-003	0.0000	23.5887	23.5887	4.5000e-004	4.3000e-004	23.7289
NaturalGas Unmitigated	2.3800e-003	0.0217	0.0182	1.3000e-004		1.6500e-003	1.6500e-003		1.6500e-003	1.6500e-003	0.0000	23.5887	23.5887	4.5000e-004	4.3000e-004	23.7289

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					
Automobile Care Center	442035	2.3800e-003	0.0217	0.0182	1.3000e-004		1.6500e-003	1.6500e-003		1.6500e-003	1.6500e-003	0.0000	23.5887	23.5887	4.5000e-004	4.3000e-004	23.7289
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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		**2.3800e-003**	**0.0217**	**0.0182**	**1.3000e-004**		**1.6500e-003**	**1.6500e-003**		**1.6500e-003**	**1.6500e-003**	**0.0000**	**23.5887**	**23.5887**	**4.5000e-004**	**4.3000e-004**	**23.7289**

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					
Automobile Care Center	442035	2.3800e-003	0.0217	0.0182	1.3000e-004		1.6500e-003	1.6500e-003		1.6500e-003	1.6500e-003	0.0000	23.5887	23.5887	4.5000e-004	4.3000e-004	23.7289
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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		**2.3800e-003**	**0.0217**	**0.0182**	**1.3000e-004**		**1.6500e-003**	**1.6500e-003**		**1.6500e-003**	**1.6500e-003**	**0.0000**	**23.5887**	**23.5887**	**4.5000e-004**	**4.3000e-004**	**23.7289**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Automobile Care Center	135022	30.1055	1.3500e-003	3.1000e-004	30.2304
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	9660	2.1539	1.0000e-004	2.0000e-005	2.1628
Total		**32.2594**	**1.4500e-003**	**3.3000e-004**	**32.3932**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Automobile Care Center	135022	30.1055	1.3500e-003	3.1000e-004	30.2304
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	9660	2.1539	1.0000e-004	2.0000e-005	2.1628
Total		**32.2594**	**1.4500e-003**	**3.3000e-004**	**32.3932**

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	0.0889	1.0000e-005	8.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.5900e-003	1.5900e-003	0.0000	0.0000	1.6900e-003
Unmitigated	0.0889	1.0000e-005	8.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.5900e-003	1.5900e-003	0.0000	0.0000	1.6900e-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	0.0117					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0771					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	8.0000e-005	1.0000e-005	8.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.5900e-003	1.5900e-003	0.0000	0.0000	1.6900e-003
Total	**0.0889**	**1.0000e-005**	**8.2000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**1.5900e-003**	**1.5900e-003**	**0.0000**	**0.0000**	**1.6900e-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	0.0117					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0771					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	8.0000e-005	1.0000e-005	8.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.5900e-003	1.5900e-003	0.0000	0.0000	1.6900e-003
Total	**0.0889**	**1.0000e-005**	**8.2000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**1.5900e-003**	**1.5900e-003**	**0.0000**	**0.0000**	**1.6900e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

Use Reclaimed Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	2.5566	0.0417	1.0000e-003	3.8987
Unmitigated	3.3640	0.0549	1.3200e-003	5.1298

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Automobile Care Center	1.68029 / 1.02985	3.3640	0.0549	1.3200e-003	5.1298
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**3.3640**	**0.0549**	**1.3200e-003**	**5.1298**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Automobile Care Center	1.27702 / 0.782689	2.5566	0.0417	1.0000e-003	3.8987
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**2.5566**	**0.0417**	**1.0000e-003**	**3.8987**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	13.8501	0.8185	0.0000	34.3130
Unmitigated	13.8501	0.8185	0.0000	34.3130

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Automobile Care Center	68.23	13.8501	0.8185	0.0000	34.3130
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		**13.8501**	**0.8185**	**0.0000**	**34.3130**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Automobile Care Center	68.23	13.8501	0.8185	0.0000	34.3130
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		**13.8501**	**0.8185**	**0.0000**	**34.3130**

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Willow Ave Automobile Service Facility

Contra Costa County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	1.98	Acre	1.98	86,248.80	0
Parking Lot	69.00	Space	0.62	27,600.00	0
Automobile Care Center	17.86	1000sqft	0.41	17,860.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	58
Climate Zone	5			**Operational Year**	2020
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	491.56	**CH4 Intensity (lb/MWhr)**	0.022	**N2O Intensity (lb/MWhr)**	0.005

1.3 User Entered Comments & Non-Default Data

Willow Ave Automobile Service Facility - Contra Costa County, Summer

Project Characteristics - PG&E Utility information adjusted based on Renewable Portfolio Standard

Land Use - info from RFI response

Construction Phase - info based on RFI response. Client wants to have a 7-day per week work schedule.

Grading - info from Bryan Wenter's email on March 12, 2018.

Vehicle Trips - Traffic study categories land use types as "tire store", "automobile care center", "carwash self-service", and "car wash automated". However, CalEEMod does not provide all these land use types. Therefore, we consider all these land sites as "automobile care center". The trip rate is adjusted by the total daily trips divided by project site size.

Energy Use -

Construction Off-road Equipment Mitigation - Basic Construction Mitigation Measures, tier IV mitigation measures

Water Mitigation - Apply AB 2230 Recycled Water for car washes

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	11.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	18.00	31.00
tblConstructionPhase	NumDays	230.00	152.00
tblConstructionPhase	NumDays	8.00	121.00
tblConstructionPhase	NumDays	18.00	60.00
tblConstructionPhase	NumDays	5.00	60.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblConstructionPhase	PhaseEndDate	10/24/2019	10/30/2019
tblConstructionPhase	PhaseEndDate	9/4/2019	10/30/2019
tblConstructionPhase	PhaseEndDate	10/17/2018	3/30/2019
tblConstructionPhase	PhaseEndDate	9/30/2019	9/29/2019
tblConstructionPhase	PhaseEndDate	10/5/2018	11/29/2018
tblConstructionPhase	PhaseStartDate	10/1/2019	9/30/2019

tblConstructionPhase	PhaseStartDate	10/18/2018	6/1/2019
tblConstructionPhase	PhaseStartDate	10/6/2018	11/30/2018
tblConstructionPhase	PhaseStartDate	9/5/2019	8/1/2019
tblGrading	AcresOfGrading	60.50	3.25
tblGrading	MaterialExported	0.00	1,250.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.022
tblProjectCharacteristics	CO2IntensityFactor	641.35	491.56
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.005
tblVehicleTrips	ST_TR	23.72	76.15
tblVehicleTrips	SU_TR	11.88	76.15
tblVehicleTrips	WD_TR	23.72	76.15

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2018	4.6425	48.2494	23.1113	0.0396	18.2141	2.5779	20.7920	9.9699	2.3717	12.3416	0.0000	3,991.8732	3,991.8732	1.1976	0.0000	4,021.8134
2019	10.5346	36.7811	32.4795	0.0583	6.2036	2.0339	7.6033	3.3538	1.8997	4.6417	0.0000	5,716.9185	5,716.9185	1.2483	0.0000	5,748.1272
Maximum	**10.5346**	**48.2494**	**32.4795**	**0.0583**	**18.2141**	**2.5779**	**20.7920**	**9.9699**	**2.3717**	**12.3416**	**0.0000**	**5,716.9185**	**5,716.9185**	**1.2483**	**0.0000**	**5,748.1272**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2018	0.5453	2.0681	21.5040	0.0396	8.2777	0.0631	8.3408	4.5080	0.0630	4.5710	0.0000	3,991.8732	3,991.8732	1.1976	0.0000	4,021.8134
2019	8.2645	6.1276	33.9952	0.0583	2.8752	0.0945	2.9259	1.5314	0.0933	1.5821	0.0000	5,716.9185	5,716.9185	1.2483	0.0000	5,748.1272
Maximum	**8.2645**	**6.1276**	**33.9952**	**0.0583**	**8.2777**	**0.0945**	**8.3408**	**4.5080**	**0.0933**	**4.5710**	**0.0000**	**5,716.9185**	**5,716.9185**	**1.2483**	**0.0000**	**5,748.1272**

	ROG	NOx	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	**41.95**	**90.36**	**0.16**	**0.00**	**54.32**	**96.58**	**60.32**	**54.67**	**96.34**	**63.77**	**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	lb/day										lb/day					
Area	0.4874	8.0000e-005	9.1300e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0194	0.0194	5.0000e-005		0.0208
Energy	0.0131	0.1187	0.0997	7.1000e-004		9.0200e-003	9.0200e-003		9.0200e-003	9.0200e-003		142.4770	142.4770	2.7300e-003	2.6100e-003	143.3237
Mobile	2.1492	6.4721	14.3757	0.0392	2.8782	0.0381	2.9163	0.7702	0.0357	0.8058		3,950.6116	3,950.6116	0.1839		3,955.2090
Total	**2.6497**	**6.5909**	**14.4845**	**0.0399**	**2.8782**	**0.0471**	**2.9254**	**0.7702**	**0.0447**	**0.8149**		**4,093.1080**	**4,093.1080**	**0.1867**	**2.6100e-003**	**4,098.5535**

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	lb/day										lb/day					
Area	0.4874	8.0000e-005	9.1300e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0194	0.0194	5.0000e-005		0.0208
Energy	0.0131	0.1187	0.0997	7.1000e-004		9.0200e-003	9.0200e-003		9.0200e-003	9.0200e-003		142.4770	142.4770	2.7300e-003	2.6100e-003	143.3237
Mobile	2.1492	6.4721	14.3757	0.0392	2.8782	0.0381	2.9163	0.7702	0.0357	0.8058		3,950.6116	3,950.6116	0.1839		3,955.2090
Total	**2.6497**	**6.5909**	**14.4845**	**0.0399**	**2.8782**	**0.0471**	**2.9254**	**0.7702**	**0.0447**	**0.8149**		**4,093.1080**	**4,093.1080**	**0.1867**	**2.6100e-003**	**4,098.5535**

	ROG	NOx	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	Site Preparation	Site Preparation	10/1/2018	11/29/2018	7	60	
2	Grading	Grading	11/30/2018	3/30/2019	7	121	
3	Building Construction	Building Construction	6/1/2019	10/30/2019	7	152	
4	Paving	Paving	8/1/2019	9/29/2019	7	60	
5	Architectural Coating	Architectural Coating	9/30/2019	10/30/2019	7	31	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 3.25

Acres of Paving: 2.6

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 26,790; Non-Residential Outdoor: 8,930; Striped Parking Area: 6,831 (Architectural Coating – sqft)

OffRoad Equipment

Willow Ave Automobile Service Facility - Contra Costa County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	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
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	156.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	54.00	22.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	11.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Site Preparation - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.5627	48.1988	22.4763	0.0380		2.5769	2.5769		2.3708	2.3708		3,831.6239	3,831.6239	1.1928		3,861.4448
Total	**4.5627**	**48.1988**	**22.4763**	**0.0380**	**18.0663**	**2.5769**	**20.6432**	**9.9307**	**2.3708**	**12.3014**		**3,831.6239**	**3,831.6239**	**1.1928**		**3,861.4448**

3.2 Site Preparation - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0798	0.0506	0.6350	1.6100e-003	0.1479	9.9000e-004	0.1489	0.0392	9.2000e-004	0.0401		160.2493	160.2493	4.7700e-003		160.3687
Total	**0.0798**	**0.0506**	**0.6350**	**1.6100e-003**	**0.1479**	**9.9000e-004**	**0.1489**	**0.0392**	**9.2000e-004**	**0.0401**		**160.2493**	**160.2493**	**4.7700e-003**		**160.3687**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.1298	0.0000	8.1298	4.4688	0.0000	4.4688			0.0000			0.0000
Off-Road	0.4656	2.0175	20.8690	0.0380		0.0621	0.0621		0.0621	0.0621	0.0000	3,831.6239	3,831.6239	1.1928		3,861.4448
Total	**0.4656**	**2.0175**	**20.8690**	**0.0380**	**8.1298**	**0.0621**	**8.1919**	**4.4688**	**0.0621**	**4.5309**	**0.0000**	**3,831.6239**	**3,831.6239**	**1.1928**		**3,861.4448**

3.2 Site Preparation - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0798	0.0506	0.6350	1.6100e-003	0.1479	9.9000e-004	0.1489	0.0392	9.2000e-004	0.0401		160.2493	160.2493	4.7700e-003		160.3687
Total	**0.0798**	**0.0506**	**0.6350**	**1.6100e-003**	**0.1479**	**9.9000e-004**	**0.1489**	**0.0392**	**9.2000e-004**	**0.0401**		**160.2493**	**160.2493**	**4.7700e-003**		**160.3687**

3.3 Grading - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.0517	0.0000	6.0517	3.3135	0.0000	3.3135			0.0000			0.0000
Off-Road	2.7733	30.6725	16.5770	0.0297		1.5513	1.5513		1.4272	1.4272		2,988.0216	2,988.0216	0.9302		3,011.2769
Total	**2.7733**	**30.6725**	**16.5770**	**0.0297**	**6.0517**	**1.5513**	**7.6031**	**3.3135**	**1.4272**	**4.7407**		**2,988.0216**	**2,988.0216**	**0.9302**		**3,011.2769**

3.3 Grading - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0121	0.4142	0.0721	1.0400e-003	0.0699	1.7200e-003	0.0716	0.0178	1.6400e-003	0.0195		110.6823	110.6823	4.9600e-003		110.8063
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0665	0.0422	0.5292	1.3400e-003	0.1232	8.3000e-004	0.1241	0.0327	7.6000e-004	0.0335		133.5411	133.5411	3.9800e-003		133.6405
Total	**0.0786**	**0.4564**	**0.6013**	**2.3800e-003**	**0.1931**	**2.5500e-003**	**0.1957**	**0.0505**	**2.4000e-003**	**0.0529**		**244.2234**	**244.2234**	**8.9400e-003**		**244.4469**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.7233	0.0000	2.7233	1.4911	0.0000	1.4911			0.0000			0.0000
Off-Road	0.3632	1.5737	17.7527	0.0297		0.0484	0.0484		0.0484	0.0484	0.0000	2,988.0216	2,988.0216	0.9302		3,011.2769
Total	**0.3632**	**1.5737**	**17.7527**	**0.0297**	**2.7233**	**0.0484**	**2.7717**	**1.4911**	**0.0484**	**1.5395**	**0.0000**	**2,988.0216**	**2,988.0216**	**0.9302**		**3,011.2769**

3.3 Grading - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0121	0.4142	0.0721	1.0400e-003	0.0699	1.7200e-003	0.0716	0.0178	1.6400e-003	0.0195		110.6823	110.6823	4.9600e-003		110.8063
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0665	0.0422	0.5292	1.3400e-003	0.1232	8.3000e-004	0.1241	0.0327	7.6000e-004	0.0335		133.5411	133.5411	3.9800e-003		133.6405
Total	**0.0786**	**0.4564**	**0.6013**	**2.3800e-003**	**0.1931**	**2.5500e-003**	**0.1957**	**0.0505**	**2.4000e-003**	**0.0529**		**244.2234**	**244.2234**	**8.9400e-003**		**244.4469**

3.3 Grading - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.0517	0.0000	6.0517	3.3135	0.0000	3.3135			0.0000			0.0000
Off-Road	2.5805	28.3480	16.2934	0.0297		1.3974	1.3974		1.2856	1.2856		2,936.8068	2,936.8068	0.9292		2,960.0361
Total	**2.5805**	**28.3480**	**16.2934**	**0.0297**	**6.0517**	**1.3974**	**7.4491**	**3.3135**	**1.2856**	**4.5991**		**2,936.8068**	**2,936.8068**	**0.9292**		**2,960.0361**

3.3 Grading - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0116	0.3933	0.0709	1.0300e-003	0.0287	1.5700e-003	0.0302	7.6700e-003	1.5000e-003	9.1700e-003		109.6148	109.6148	4.8700e-003		109.7367
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0599	0.0369	0.4699	1.3000e-003	0.1232	8.1000e-004	0.1240	0.0327	7.5000e-004	0.0334		129.5261	129.5261	3.5100e-003		129.6139
Total	**0.0714**	**0.4302**	**0.5407**	**2.3300e-003**	**0.1519**	**2.3800e-003**	**0.1542**	**0.0404**	**2.2500e-003**	**0.0426**		**239.1409**	**239.1409**	**8.3800e-003**		**239.3506**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.7233	0.0000	2.7233	1.4911	0.0000	1.4911			0.0000			0.0000
Off-Road	0.3632	1.5737	17.7527	0.0297		0.0484	0.0484		0.0484	0.0484	0.0000	2,936.8068	2,936.8068	0.9292		2,960.0361
Total	**0.3632**	**1.5737**	**17.7527**	**0.0297**	**2.7233**	**0.0484**	**2.7717**	**1.4911**	**0.0484**	**1.5395**	**0.0000**	**2,936.8068**	**2,936.8068**	**0.9292**		**2,960.0361**

3.3 Grading - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0116	0.3933	0.0709	1.0300e-003	0.0287	1.5700e-003	0.0302	7.6700e-003	1.5000e-003	9.1700e-003		109.6148	109.6148	4.8700e-003		109.7367
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0599	0.0369	0.4699	1.3000e-003	0.1232	8.1000e-004	0.1240	0.0327	7.5000e-004	0.0334		129.5261	129.5261	3.5100e-003		129.6139
Total	**0.0714**	**0.4302**	**0.5407**	**2.3300e-003**	**0.1519**	**2.3800e-003**	**0.1542**	**0.0404**	**2.2500e-003**	**0.0426**		**239.1409**	**239.1409**	**8.3800e-003**		**239.3506**

3.4 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127		2,591.5802	2,591.5802	0.6313		2,607.3635
Total	**2.3612**	**21.0788**	**17.1638**	**0.0269**		**1.2899**	**1.2899**		**1.2127**	**1.2127**		**2,591.5802**	**2,591.5802**	**0.6313**		**2,607.3635**

3.4 Building Construction - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1073	2.7598	0.6847	6.1000e-003	0.1489	0.0205	0.1694	0.0429	0.0196	0.0625		643.0237	643.0237	0.0326		643.8385
Worker	0.2155	0.1329	1.6915	4.6800e-003	0.4436	2.9200e-003	0.4465	0.1177	2.6900e-003	0.1204		466.2941	466.2941	0.0126		466.6100
Total	**0.3228**	**2.8927**	**2.3762**	**0.0108**	**0.5925**	**0.0234**	**0.6159**	**0.1605**	**0.0223**	**0.1828**		**1,109.3178**	**1,109.3178**	**0.0452**		**1,110.4486**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0269		0.0408	0.0408		0.0408	0.0408	0.0000	2,591.5802	2,591.5802	0.6313		2,607.3635
Total	**0.3278**	**2.2347**	**17.4603**	**0.0269**		**0.0408**	**0.0408**		**0.0408**	**0.0408**	**0.0000**	**2,591.5802**	**2,591.5802**	**0.6313**		**2,607.3635**

3.4 Building Construction - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1073	2.7598	0.6847	6.1000e-003	0.1489	0.0205	0.1694	0.0429	0.0196	0.0625		643.0237	643.0237	0.0326		643.8385
Worker	0.2155	0.1329	1.6915	4.6800e-003	0.4436	2.9200e-003	0.4465	0.1177	2.6900e-003	0.1204		466.2941	466.2941	0.0126		466.6100
Total	**0.3228**	**2.8927**	**2.3762**	**0.0108**	**0.5925**	**0.0234**	**0.6159**	**0.1605**	**0.0223**	**0.1828**		**1,109.3178**	**1,109.3178**	**0.0452**		**1,110.4486**

3.5 Paving - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2679	12.7604	12.3130	0.0189		0.7196	0.7196		0.6637	0.6637		1,843.3191	1,843.3191	0.5671		1,857.4966
Paving	0.1135					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.3814**	**12.7604**	**12.3130**	**0.0189**		**0.7196**	**0.7196**		**0.6637**	**0.6637**		**1,843.3191**	**1,843.3191**	**0.5671**		**1,857.4966**

3.5 Paving - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0798	0.0492	0.6265	1.7300e-003	0.1643	1.0800e-003	0.1654	0.0436	1.0000e-003	0.0446		172.7015	172.7015	4.6800e-003		172.8185
Total	**0.0798**	**0.0492**	**0.6265**	**1.7300e-003**	**0.1643**	**1.0800e-003**	**0.1654**	**0.0436**	**1.0000e-003**	**0.0446**		**172.7015**	**172.7015**	**4.6800e-003**		**172.8185**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2194	0.9509	13.5323	0.0189		0.0293	0.0293		0.0293	0.0293	0.0000	1,843.3191	1,843.3191	0.5671		1,857.4966
Paving	0.1135					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.3330**	**0.9509**	**13.5323**	**0.0189**		**0.0293**	**0.0293**		**0.0293**	**0.0293**	**0.0000**	**1,843.3191**	**1,843.3191**	**0.5671**		**1,857.4966**

3.5 Paving - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0798	0.0492	0.6265	1.7300e-003	0.1643	1.0800e-003	0.1654	0.0436	1.0000e-003	0.0446		172.7015	172.7015	4.6800e-003		172.8185
Total	**0.0798**	**0.0492**	**0.6265**	**1.7300e-003**	**0.1643**	**1.0800e-003**	**0.1654**	**0.0436**	**1.0000e-003**	**0.0446**		**172.7015**	**172.7015**	**4.6800e-003**		**172.8185**

3.6 Architectural Coating - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	7.5403					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		282.0423
Total	**7.8068**	**1.8354**	**1.8413**	**2.9700e-003**		**0.1288**	**0.1288**		**0.1288**	**0.1288**		**281.4481**	**281.4481**	**0.0238**		**282.0423**

3.6 Architectural Coating - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0439	0.0271	0.3446	9.5000e-004	0.0904	6.0000e-004	0.0910	0.0240	5.5000e-004	0.0245		94.9858	94.9858	2.5700e-003		95.0502
Total	**0.0439**	**0.0271**	**0.3446**	**9.5000e-004**	**0.0904**	**6.0000e-004**	**0.0910**	**0.0240**	**5.5000e-004**	**0.0245**		**94.9858**	**94.9858**	**2.5700e-003**		**95.0502**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	7.5403					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0238		282.0423
Total	**7.5700**	**0.1288**	**1.8324**	**2.9700e-003**		**3.9600e-003**	**3.9600e-003**		**3.9600e-003**	**3.9600e-003**	**0.0000**	**281.4481**	**281.4481**	**0.0238**		**282.0423**

3.6 Architectural Coating - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0439	0.0271	0.3446	9.5000e-004	0.0904	6.0000e-004	0.0910	0.0240	5.5000e-004	0.0245		94.9858	94.9858	2.5700e-003		95.0502
Total	**0.0439**	**0.0271**	**0.3446**	**9.5000e-004**	**0.0904**	**6.0000e-004**	**0.0910**	**0.0240**	**5.5000e-004**	**0.0245**		**94.9858**	**94.9858**	**2.5700e-003**		**95.0502**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.1492	6.4721	14.3757	0.0392	2.8782	0.0381	2.9163	0.7702	0.0357	0.8058		3,950.6116	3,950.6116	0.1839		3,955.2090
Unmitigated	2.1492	6.4721	14.3757	0.0392	2.8782	0.0381	2.9163	0.7702	0.0357	0.8058		3,950.6116	3,950.6116	0.1839		3,955.2090

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Automobile Care Center	1,360.04	1,360.04	1360.04	1,354,852	1,354,852
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	1,360.04	1,360.04	1,360.04	1,354,852	1,354,852

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
Automobile Care Center	9.50	7.30	7.30	33.00	48.00	19.00	21	51	28
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Automobile Care Center	0.577244	0.040114	0.186710	0.126359	0.018084	0.005120	0.010527	0.023222	0.001588	0.001850	0.005513	0.002759	0.000910
Other Asphalt Surfaces	0.577244	0.040114	0.186710	0.126359	0.018084	0.005120	0.010527	0.023222	0.001588	0.001850	0.005513	0.002759	0.000910
Parking Lot	0.577244	0.040114	0.186710	0.126359	0.018084	0.005120	0.010527	0.023222	0.001588	0.001850	0.005513	0.002759	0.000910

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	lb/day										lb/day					
NaturalGas Mitigated	0.0131	0.1187	0.0997	7.1000e-004		9.0200e-003	9.0200e-003		9.0200e-003	9.0200e-003		142.4770	142.4770	2.7300e-003	2.6100e-003	143.3237
NaturalGas Unmitigated	0.0131	0.1187	0.0997	7.1000e-004		9.0200e-003	9.0200e-003		9.0200e-003	9.0200e-003		142.4770	142.4770	2.7300e-003	2.6100e-003	143.3237

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Automobile Care Center	1211.05	0.0131	0.1187	0.0997	7.1000e-004		9.0200e-003	9.0200e-003		9.0200e-003	9.0200e-003		142.4770	142.4770	2.7300e-003	2.6100e-003	143.3237
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
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
Total		**0.0131**	**0.1187**	**0.0997**	**7.1000e-004**		**9.0200e-003**	**9.0200e-003**		**9.0200e-003**	**9.0200e-003**		**142.4770**	**142.4770**	**2.7300e-003**	**2.6100e-003**	**143.3237**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Automobile Care Center	1.21105	0.0131	0.1187	0.0997	7.1000e-004		9.0200e-003	9.0200e-003		9.0200e-003	9.0200e-003		142.4770	142.4770	2.7300e-003	2.6100e-003	143.3237
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
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
Total		**0.0131**	**0.1187**	**0.0997**	**7.1000e-004**		**9.0200e-003**	**9.0200e-003**		**9.0200e-003**	**9.0200e-003**		**142.4770**	**142.4770**	**2.7300e-003**	**2.6100e-003**	**143.3237**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.4874	8.0000e-005	9.1300e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0194	0.0194	5.0000e-005		0.0208
Unmitigated	0.4874	8.0000e-005	9.1300e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0194	0.0194	5.0000e-005		0.0208

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0640					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.4225					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	8.6000e-004	8.0000e-005	9.1300e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0194	0.0194	5.0000e-005		0.0208
Total	**0.4874**	**8.0000e-005**	**9.1300e-003**	**0.0000**		**3.0000e-005**	**3.0000e-005**		**3.0000e-005**	**3.0000e-005**		**0.0194**	**0.0194**	**5.0000e-005**		**0.0208**

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	lb/day										lb/day					
Architectural Coating	0.0640					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.4225					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	8.6000e-004	8.0000e-005	9.1300e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0194	0.0194	5.0000e-005		0.0208
Total	**0.4874**	**8.0000e-005**	**9.1300e-003**	**0.0000**		**3.0000e-005**	**3.0000e-005**		**3.0000e-005**	**3.0000e-005**		**0.0194**	**0.0194**	**5.0000e-005**		**0.0208**

7.0 Water Detail

7.1 Mitigation Measures Water

Use Reclaimed Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Willow Ave Automobile Service Facility

Contra Costa County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	1.98	Acre	1.98	86,248.80	0
Parking Lot	69.00	Space	0.62	27,600.00	0
Automobile Care Center	17.86	1000sqft	0.41	17,860.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	58
Climate Zone	5			**Operational Year**	2020
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	491.56	**CH4 Intensity (lb/MWhr)**	0.022	**N2O Intensity (lb/MWhr)**	0.005

1.3 User Entered Comments & Non-Default Data

Willow Ave Automobile Service Facility - Contra Costa County, Winter

Project Characteristics - PG&E Utility information adjusted based on Renewable Portfolio Standard

Land Use - info from RFI response

Construction Phase - info based on RFI response. Client wants to have a 7-day per week work schedule.

Grading - info from Bryan Wenter's email on March 12, 2018.

Vehicle Trips - Traffic study categories land use types as "tire store", "automobile care center", "carwash self-service", and "car wash automated". However, CalEEMod does not provide all these land use types. Therefore, we consider all these land sites as "automobile care center". The trip rate is adjusted by the total daily trips divided by project site size.

Energy Use -

Construction Off-road Equipment Mitigation - Basic Construction Mitigation Measures, tier IV mitigation measures

Water Mitigation - Apply AB 2230 Recycled Water for car washes

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	11.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final

Willow Ave Automobile Service Facility - Contra Costa County, Winter

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	18.00	31.00
tblConstructionPhase	NumDays	230.00	152.00
tblConstructionPhase	NumDays	8.00	121.00
tblConstructionPhase	NumDays	18.00	60.00
tblConstructionPhase	NumDays	5.00	60.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblConstructionPhase	PhaseEndDate	10/24/2019	10/30/2019
tblConstructionPhase	PhaseEndDate	9/4/2019	10/30/2019
tblConstructionPhase	PhaseEndDate	10/17/2018	3/30/2019
tblConstructionPhase	PhaseEndDate	9/30/2019	9/29/2019
tblConstructionPhase	PhaseEndDate	10/5/2018	11/29/2018
tblConstructionPhase	PhaseStartDate	10/1/2019	9/30/2019

tblConstructionPhase	PhaseStartDate	10/18/2018	6/1/2019
tblConstructionPhase	PhaseStartDate	10/6/2018	11/30/2018
tblConstructionPhase	PhaseStartDate	9/5/2019	8/1/2019
tblGrading	AcresOfGrading	60.50	3.25
tblGrading	MaterialExported	0.00	1,250.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.022
tblProjectCharacteristics	CO2IntensityFactor	641.35	491.56
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.005
tblVehicleTrips	ST_TR	23.72	76.15
tblVehicleTrips	SU_TR	11.88	76.15
tblVehicleTrips	WD_TR	23.72	76.15

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2018	4.6437	48.2613	23.0661	0.0395	18.2141	2.5779	20.7920	9.9699	2.3717	12.3416	0.0000	3,976.8383	3,976.8383	1.1973	0.0000	4,006.7703
2019	10.5433	36.8618	32.3980	0.0576	6.2036	2.0342	7.6034	3.3538	1.9000	4.6417	0.0000	5,640.7687	5,640.7687	1.2500	0.0000	5,672.0197
Maximum	**10.5433**	**48.2613**	**32.3980**	**0.0576**	**18.2141**	**2.5779**	**20.7920**	**9.9699**	**2.3717**	**12.3416**	**0.0000**	**5,640.7687**	**5,640.7687**	**1.2500**	**0.0000**	**5,672.0197**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2018	0.5466	2.0800	21.4588	0.0395	8.2777	0.0631	8.3408	4.5080	0.0630	4.5710	0.0000	3,976.8383	3,976.8383	1.1973	0.0000	4,006.7703
2019	8.2732	6.2083	33.9137	0.0576	2.8752	0.0949	2.9260	1.5314	0.0936	1.5821	0.0000	5,640.7687	5,640.7687	1.2500	0.0000	5,672.0197
Maximum	**8.2732**	**6.2083**	**33.9137**	**0.0576**	**8.2777**	**0.0949**	**8.3408**	**4.5080**	**0.0936**	**4.5710**	**0.0000**	**5,640.7687**	**5,640.7687**	**1.2500**	**0.0000**	**5,672.0197**

	ROG	NOx	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	**41.93**	**90.26**	**0.17**	**0.00**	**54.32**	**96.58**	**60.32**	**54.67**	**96.33**	**63.77**	**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	lb/day										lb/day					
Area	0.4874	8.0000e-005	9.1300e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0194	0.0194	5.0000e-005		0.0208
Energy	0.0131	0.1187	0.0997	7.1000e-004		9.0200e-003	9.0200e-003		9.0200e-003	9.0200e-003		142.4770	142.4770	2.7300e-003	2.6100e-003	143.3237
Mobile	1.7162	6.6980	15.9143	0.0361	2.8782	0.0387	2.9169	0.7702	0.0363	0.8064		3,641.4700	3,641.4700	0.1968		3,646.3907
Total	**2.2167**	**6.8168**	**16.0232**	**0.0369**	**2.8782**	**0.0477**	**2.9260**	**0.7702**	**0.0453**	**0.8155**		**3,783.9665**	**3,783.9665**	**0.1996**	**2.6100e-003**	**3,789.7352**

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	lb/day										lb/day					
Area	0.4874	8.0000e-005	9.1300e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0194	0.0194	5.0000e-005		0.0208
Energy	0.0131	0.1187	0.0997	7.1000e-004		9.0200e-003	9.0200e-003		9.0200e-003	9.0200e-003		142.4770	142.4770	2.7300e-003	2.6100e-003	143.3237
Mobile	1.7162	6.6980	15.9143	0.0361	2.8782	0.0387	2.9169	0.7702	0.0363	0.8064		3,641.4700	3,641.4700	0.1968		3,646.3907
Total	**2.2167**	**6.8168**	**16.0232**	**0.0369**	**2.8782**	**0.0477**	**2.9260**	**0.7702**	**0.0453**	**0.8155**		**3,783.9665**	**3,783.9665**	**0.1996**	**2.6100e-003**	**3,789.7352**

	ROG	NOx	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	Site Preparation	Site Preparation	10/1/2018	11/29/2018	7	60	
2	Grading	Grading	11/30/2018	3/30/2019	7	121	
3	Building Construction	Building Construction	6/1/2019	10/30/2019	7	152	
4	Paving	Paving	8/1/2019	9/29/2019	7	60	
5	Architectural Coating	Architectural Coating	9/30/2019	10/30/2019	7	31	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 3.25

Acres of Paving: 2.6

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 26,790; Non-Residential Outdoor: 8,930; Striped Parking Area: 6,831 (Architectural Coating – sqft)

OffRoad Equipment

Willow Ave Automobile Service Facility - Contra Costa County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	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
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	156.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	54.00	22.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	11.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Site Preparation - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.5627	48.1988	22.4763	0.0380		2.5769	2.5769		2.3708	2.3708		3,831.6239	3,831.6239	1.1928		3,861.4448
Total	**4.5627**	**48.1988**	**22.4763**	**0.0380**	**18.0663**	**2.5769**	**20.6432**	**9.9307**	**2.3708**	**12.3014**		**3,831.6239**	**3,831.6239**	**1.1928**		**3,861.4448**

3.2 Site Preparation - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0810	0.0625	0.5898	1.4600e-003	0.1479	9.9000e-004	0.1489	0.0392	9.2000e-004	0.0401		145.2144	145.2144	4.4400e-003		145.3256
Total	**0.0810**	**0.0625**	**0.5898**	**1.4600e-003**	**0.1479**	**9.9000e-004**	**0.1489**	**0.0392**	**9.2000e-004**	**0.0401**		**145.2144**	**145.2144**	**4.4400e-003**		**145.3256**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.1298	0.0000	8.1298	4.4688	0.0000	4.4688			0.0000			0.0000
Off-Road	0.4656	2.0175	20.8690	0.0380		0.0621	0.0621		0.0621	0.0621	0.0000	3,831.6239	3,831.6239	1.1928		3,861.4448
Total	**0.4656**	**2.0175**	**20.8690**	**0.0380**	**8.1298**	**0.0621**	**8.1919**	**4.4688**	**0.0621**	**4.5309**	**0.0000**	**3,831.6239**	**3,831.6239**	**1.1928**		**3,861.4448**

3.2 Site Preparation - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0810	0.0625	0.5898	1.4600e-003	0.1479	9.9000e-004	0.1489	0.0392	9.2000e-004	0.0401		145.2144	145.2144	4.4400e-003		145.3256
Total	**0.0810**	**0.0625**	**0.5898**	**1.4600e-003**	**0.1479**	**9.9000e-004**	**0.1489**	**0.0392**	**9.2000e-004**	**0.0401**		**145.2144**	**145.2144**	**4.4400e-003**		**145.3256**

3.3 Grading - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.0517	0.0000	6.0517	3.3135	0.0000	3.3135			0.0000			0.0000
Off-Road	2.7733	30.6725	16.5770	0.0297		1.5513	1.5513		1.4272	1.4272		2,988.0216	2,988.0216	0.9302		3,011.2769
Total	**2.7733**	**30.6725**	**16.5770**	**0.0297**	**6.0517**	**1.5513**	**7.6031**	**3.3135**	**1.4272**	**4.7407**		**2,988.0216**	**2,988.0216**	**0.9302**		**3,011.2769**

3.3 Grading - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0125	0.4245	0.0789	1.0300e-003	0.0699	1.7500e-003	0.0717	0.0178	1.6800e-003	0.0195		108.8624	108.8624	5.2900e-003		108.9947
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0675	0.0521	0.4915	1.2200e-003	0.1232	8.3000e-004	0.1241	0.0327	7.6000e-004	0.0335		121.0120	121.0120	3.7000e-003		121.1046
Total	**0.0800**	**0.4765**	**0.5704**	**2.2500e-003**	**0.1931**	**2.5800e-003**	**0.1957**	**0.0505**	**2.4400e-003**	**0.0529**		**229.8744**	**229.8744**	**8.9900e-003**		**230.0994**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.7233	0.0000	2.7233	1.4911	0.0000	1.4911			0.0000			0.0000
Off-Road	0.3632	1.5737	17.7527	0.0297		0.0484	0.0484		0.0484	0.0484	0.0000	2,988.0216	2,988.0216	0.9302		3,011.2769
Total	**0.3632**	**1.5737**	**17.7527**	**0.0297**	**2.7233**	**0.0484**	**2.7717**	**1.4911**	**0.0484**	**1.5395**	**0.0000**	**2,988.0216**	**2,988.0216**	**0.9302**		**3,011.2769**

3.3 Grading - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0125	0.4245	0.0789	1.0300e-003	0.0699	1.7500e-003	0.0717	0.0178	1.6800e-003	0.0195		108.8624	108.8624	5.2900e-003		108.9947
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0675	0.0521	0.4915	1.2200e-003	0.1232	8.3000e-004	0.1241	0.0327	7.6000e-004	0.0335		121.0120	121.0120	3.7000e-003		121.1046
Total	**0.0800**	**0.4765**	**0.5704**	**2.2500e-003**	**0.1931**	**2.5800e-003**	**0.1957**	**0.0505**	**2.4400e-003**	**0.0529**		**229.8744**	**229.8744**	**8.9900e-003**		**230.0994**

3.3 Grading - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.0517	0.0000	6.0517	3.3135	0.0000	3.3135			0.0000			0.0000
Off-Road	2.5805	28.3480	16.2934	0.0297		1.3974	1.3974		1.2856	1.2856		2,936.8068	2,936.8068	0.9292		2,960.0361
Total	**2.5805**	**28.3480**	**16.2934**	**0.0297**	**6.0517**	**1.3974**	**7.4491**	**3.3135**	**1.2856**	**4.5991**		**2,936.8068**	**2,936.8068**	**0.9292**		**2,960.0361**

3.3 Grading - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0119	0.4029	0.0773	1.0100e-003	0.0287	1.6000e-003	0.0302	7.6700e-003	1.5300e-003	9.2000e-003		107.7823	107.7823	5.2000e-003		107.9122
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0607	0.0456	0.4332	1.1800e-003	0.1232	8.1000e-004	0.1240	0.0327	7.5000e-004	0.0334		117.3595	117.3595	3.2500e-003		117.4408
Total	**0.0726**	**0.4484**	**0.5105**	**2.1900e-003**	**0.1519**	**2.4100e-003**	**0.1543**	**0.0404**	**2.2800e-003**	**0.0426**		**225.1418**	**225.1418**	**8.4500e-003**		**225.3529**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.7233	0.0000	2.7233	1.4911	0.0000	1.4911			0.0000			0.0000
Off-Road	0.3632	1.5737	17.7527	0.0297		0.0484	0.0484		0.0484	0.0484	0.0000	2,936.8068	2,936.8068	0.9292		2,960.0361
Total	**0.3632**	**1.5737**	**17.7527**	**0.0297**	**2.7233**	**0.0484**	**2.7717**	**1.4911**	**0.0484**	**1.5395**	**0.0000**	**2,936.8068**	**2,936.8068**	**0.9292**		**2,960.0361**

3.3 Grading - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0119	0.4029	0.0773	1.0100e-003	0.0287	1.6000e-003	0.0302	7.6700e-003	1.5300e-003	9.2000e-003		107.7823	107.7823	5.2000e-003		107.9122
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0607	0.0456	0.4332	1.1800e-003	0.1232	8.1000e-004	0.1240	0.0327	7.5000e-004	0.0334		117.3595	117.3595	3.2500e-003		117.4408
Total	**0.0726**	**0.4484**	**0.5105**	**2.1900e-003**	**0.1519**	**2.4100e-003**	**0.1543**	**0.0404**	**2.2800e-003**	**0.0426**		**225.1418**	**225.1418**	**8.4500e-003**		**225.3529**

3.4 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127		2,591.5802	2,591.5802	0.6313		2,607.3635
Total	**2.3612**	**21.0788**	**17.1638**	**0.0269**		**1.2899**	**1.2899**		**1.2127**	**1.2127**		**2,591.5802**	**2,591.5802**	**0.6313**		**2,607.3635**

3.4 Building Construction - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1124	2.7978	0.7839	5.9500e-003	0.1489	0.0208	0.1697	0.0429	0.0199	0.0628		626.8959	626.8959	0.0356		627.7850
Worker	0.2185	0.1641	1.5596	4.2400e-003	0.4436	2.9200e-003	0.4465	0.1177	2.6900e-003	0.1204		422.4942	422.4942	0.0117		422.7869
Total	**0.3309**	**2.9619**	**2.3435**	**0.0102**	**0.5925**	**0.0237**	**0.6162**	**0.1605**	**0.0226**	**0.1831**		**1,049.3901**	**1,049.3901**	**0.0473**		**1,050.5719**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0269		0.0408	0.0408		0.0408	0.0408	0.0000	2,591.5802	2,591.5802	0.6313		2,607.3635
Total	**0.3278**	**2.2347**	**17.4603**	**0.0269**		**0.0408**	**0.0408**		**0.0408**	**0.0408**	**0.0000**	**2,591.5802**	**2,591.5802**	**0.6313**		**2,607.3635**

3.4 Building Construction - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1124	2.7978	0.7839	5.9500e-003	0.1489	0.0208	0.1697	0.0429	0.0199	0.0628		626.8959	626.8959	0.0356		627.7850
Worker	0.2185	0.1641	1.5596	4.2400e-003	0.4436	2.9200e-003	0.4465	0.1177	2.6900e-003	0.1204		422.4942	422.4942	0.0117		422.7869
Total	**0.3309**	**2.9619**	**2.3435**	**0.0102**	**0.5925**	**0.0237**	**0.6162**	**0.1605**	**0.0226**	**0.1831**		**1,049.3901**	**1,049.3901**	**0.0473**		**1,050.5719**

3.5 Paving - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2679	12.7604	12.3130	0.0189		0.7196	0.7196		0.6637	0.6637		1,843.3191	1,843.3191	0.5671		1,857.4966
Paving	0.1135					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.3814**	**12.7604**	**12.3130**	**0.0189**		**0.7196**	**0.7196**		**0.6637**	**0.6637**		**1,843.3191**	**1,843.3191**	**0.5671**		**1,857.4966**

3.5 Paving - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0809	0.0608	0.5776	1.5700e-003	0.1643	1.0800e-003	0.1654	0.0436	1.0000e-003	0.0446		156.4794	156.4794	4.3400e-003		156.5877
Total	**0.0809**	**0.0608**	**0.5776**	**1.5700e-003**	**0.1643**	**1.0800e-003**	**0.1654**	**0.0436**	**1.0000e-003**	**0.0446**		**156.4794**	**156.4794**	**4.3400e-003**		**156.5877**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2194	0.9509	13.5323	0.0189		0.0293	0.0293		0.0293	0.0293	0.0000	1,843.3191	1,843.3191	0.5671		1,857.4966
Paving	0.1135					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.3330**	**0.9509**	**13.5323**	**0.0189**		**0.0293**	**0.0293**		**0.0293**	**0.0293**	**0.0000**	**1,843.3191**	**1,843.3191**	**0.5671**		**1,857.4966**

3.5 Paving - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0809	0.0608	0.5776	1.5700e-003	0.1643	1.0800e-003	0.1654	0.0436	1.0000e-003	0.0446		156.4794	156.4794	4.3400e-003		156.5877
Total	**0.0809**	**0.0608**	**0.5776**	**1.5700e-003**	**0.1643**	**1.0800e-003**	**0.1654**	**0.0436**	**1.0000e-003**	**0.0446**		**156.4794**	**156.4794**	**4.3400e-003**		**156.5877**

3.6 Architectural Coating - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	7.5403					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		282.0423
Total	**7.8068**	**1.8354**	**1.8413**	**2.9700e-003**		**0.1288**	**0.1288**		**0.1288**	**0.1288**		**281.4481**	**281.4481**	**0.0238**		**282.0423**

3.6 Architectural Coating - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0445	0.0334	0.3177	8.6000e-004	0.0904	6.0000e-004	0.0910	0.0240	5.5000e-004	0.0245		86.0636	86.0636	2.3800e-003		86.1233
Total	**0.0445**	**0.0334**	**0.3177**	**8.6000e-004**	**0.0904**	**6.0000e-004**	**0.0910**	**0.0240**	**5.5000e-004**	**0.0245**		**86.0636**	**86.0636**	**2.3800e-003**		**86.1233**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	7.5403					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0238		282.0423
Total	**7.5700**	**0.1288**	**1.8324**	**2.9700e-003**		**3.9600e-003**	**3.9600e-003**		**3.9600e-003**	**3.9600e-003**	**0.0000**	**281.4481**	**281.4481**	**0.0238**		**282.0423**

3.6 Architectural Coating - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0445	0.0334	0.3177	8.6000e-004	0.0904	6.0000e-004	0.0910	0.0240	5.5000e-004	0.0245		86.0636	86.0636	2.3800e-003		86.1233
Total	**0.0445**	**0.0334**	**0.3177**	**8.6000e-004**	**0.0904**	**6.0000e-004**	**0.0910**	**0.0240**	**5.5000e-004**	**0.0245**		**86.0636**	**86.0636**	**2.3800e-003**		**86.1233**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.7162	6.6980	15.9143	0.0361	2.8782	0.0387	2.9169	0.7702	0.0363	0.8064		3,641.4700	3,641.4700	0.1968		3,646.3907
Unmitigated	1.7162	6.6980	15.9143	0.0361	2.8782	0.0387	2.9169	0.7702	0.0363	0.8064		3,641.4700	3,641.4700	0.1968		3,646.3907

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Automobile Care Center	1,360.04	1,360.04	1360.04	1,354,852	1,354,852
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	1,360.04	1,360.04	1,360.04	1,354,852	1,354,852

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
Automobile Care Center	9.50	7.30	7.30	33.00	48.00	19.00	21	51	28
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Automobile Care Center	0.577244	0.040114	0.186710	0.126359	0.018084	0.005120	0.010527	0.023222	0.001588	0.001850	0.005513	0.002759	0.000910
Other Asphalt Surfaces	0.577244	0.040114	0.186710	0.126359	0.018084	0.005120	0.010527	0.023222	0.001588	0.001850	0.005513	0.002759	0.000910
Parking Lot	0.577244	0.040114	0.186710	0.126359	0.018084	0.005120	0.010527	0.023222	0.001588	0.001850	0.005513	0.002759	0.000910

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	lb/day										lb/day					
NaturalGas Mitigated	0.0131	0.1187	0.0997	7.1000e-004		9.0200e-003	9.0200e-003		9.0200e-003	9.0200e-003		142.4770	142.4770	2.7300e-003	2.6100e-003	143.3237
NaturalGas Unmitigated	0.0131	0.1187	0.0997	7.1000e-004		9.0200e-003	9.0200e-003		9.0200e-003	9.0200e-003		142.4770	142.4770	2.7300e-003	2.6100e-003	143.3237

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Automobile Care Center	1211.05	0.0131	0.1187	0.0997	7.1000e-004		9.0200e-003	9.0200e-003		9.0200e-003	9.0200e-003		142.4770	142.4770	2.7300e-003	2.6100e-003	143.3237
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
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
Total		**0.0131**	**0.1187**	**0.0997**	**7.1000e-004**		**9.0200e-003**	**9.0200e-003**		**9.0200e-003**	**9.0200e-003**		**142.4770**	**142.4770**	**2.7300e-003**	**2.6100e-003**	**143.3237**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Automobile Care Center	1.21105	0.0131	0.1187	0.0997	7.1000e-004		9.0200e-003	9.0200e-003		9.0200e-003	9.0200e-003		142.4770	142.4770	2.7300e-003	2.6100e-003	143.3237
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
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
Total		**0.0131**	**0.1187**	**0.0997**	**7.1000e-004**		**9.0200e-003**	**9.0200e-003**		**9.0200e-003**	**9.0200e-003**		**142.4770**	**142.4770**	**2.7300e-003**	**2.6100e-003**	**143.3237**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.4874	8.0000e-005	9.1300e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0194	0.0194	5.0000e-005		0.0208
Unmitigated	0.4874	8.0000e-005	9.1300e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0194	0.0194	5.0000e-005		0.0208

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0640					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.4225					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	8.6000e-004	8.0000e-005	9.1300e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0194	0.0194	5.0000e-005		0.0208
Total	**0.4874**	**8.0000e-005**	**9.1300e-003**	**0.0000**		**3.0000e-005**	**3.0000e-005**		**3.0000e-005**	**3.0000e-005**		**0.0194**	**0.0194**	**5.0000e-005**		**0.0208**

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	lb/day										lb/day					
Architectural Coating	0.0640					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.4225					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	8.6000e-004	8.0000e-005	9.1300e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0194	0.0194	5.0000e-005		0.0208
Total	**0.4874**	**8.0000e-005**	**9.1300e-003**	**0.0000**		**3.0000e-005**	**3.0000e-005**		**3.0000e-005**	**3.0000e-005**		**0.0194**	**0.0194**	**5.0000e-005**		**0.0208**

7.0 Water Detail

7.1 Mitigation Measures Water

Use Reclaimed Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Willow Ave Storage Facility

No Mitigation

Construction Annual DPM Emissions (as PM2.5 Exhaust)

Construction Scheduling	**2018**	
	13.6	hours/day
	7	days/week
	14	weeks/year
	1332.8	hours/year

Onsite Construction Area Source Size (m2): 22439 from AERMOD

Onsite Construction PM2.5 Emissions

2018	**Construction Activity**	**Onsite Annual DPM Exhaust Emissions (tons/year)**	**Onsite Annual DPM Exhaust Emissions (g/sec)**	**Onsite DPM Source Exhaust Emissions (g/m2-sec)**
	Site Preparation	7.110E-02	1.346E-02	5.996E-07
	Grading	2.280E-02	4.315E-03	1.923E-07
	Total	**9.390E-02**	**1.777E-02**	**7.919E-07**

Offsite Construction Vehicle PM2.5 Emissions

2018	**Construction Activity**	**Offsite Hauling Annual DPM Exhaust Emissions (tons/year)**	**Offsite Vendor Annual DPM Exhaust Emissions (tons/year)**	**Offsite Workers Annual DPM Exhaust Emissions (tons/year)**	
	Site Preparation	0.000E+00	0.000E+00	3.000E-05	
	Grading	0.000E+00	0.000E+00	1.000E-05	
	Total (tons/year)	**0.000E+00**	**0.000E+00**	**4.000E-05**	**4.000E-05**
	Trip Distance assumed in CalEEMod (mi)	20.0	7.3	10.8	
	Offsite Project Trip Distance Along Roadway Segment Project>Willow Ave>John Muir Pkwy (mi)	0.60	0.60	0.60	
	Offsite Project Emissions Along Roadway Segment Project>Willow Ave>John Muir Pkwy (tons/year)	**0.000E+00**	**0.000E+00**	**2.239E-06**	

Offsite Emissions Along Roadway Segment Analyzed	
Total Offsite Project Exhaust Emissions (tons/year)	**2.239E-06**
Total Offsite Project Exhaust Emissions (grams/sec)	**4.237E-07**

Onsite Exhaust Emissions (tons/year)	**9.390E-02**
Total Onsite Emissions (tons/year)	**9.390E-02**
Onsite Exhaust Emissions (g/m2-sec)	**7.919E-07**

Total PM@2.5 Exhaust (tons/year)	9.390E-02

Willow Ave Storage Facility

No Mitigation

Construction Annual DPM Emissions (as PM2.5 Exhaust)

Construction Scheduling	**2019**	
	13.6	hours/day
	7	days/week
	46	weeks/year
	4379.2	hours/year

Onsite Construction Area Source Size (m2): 22439.00

Onsite Construction PM2.5 Emissions

2019	**Construction Activity**	**Onsite Annual DPM Exhaust Emissions (tons/year)**	**Onsite Annual DPM Exhaust Emissions (g/sec)**	**Onsite DPM Source Exhaust Emissions (g/m2-sec)**
	Grading	5.790E-02	3.335E-03	1.486E-07
	Building Construction	1.292E-01	7.441E-03	3.316E-07
	Paving	1.990E-02	1.146E-03	5.108E-08
	Architectural Coating	5.860E-03	3.375E-04	1.504E-08
	Total	**2.129E-01**	**1.226E-02**	**5.464E-07**

Offsite Construction Vehicle PM2.5 Emissions

2019	**Construction Activity**	**Offsite Hauling Annual DPM Exhaust Emissions (tons/year)**	**Offsite Vendor Annual DPM Exhaust Emissions (tons/year)**	**Offsite Workers Annual DPM Exhaust Emissions (tons/year)**	
	Grading	0.000E+00	0.000E+00	3.000E-05	
	Building Construction	0.000E+00	3.340E-03	4.800E-04	
	Paving	0.000E+00	0.000E+00	3.000E-05	
	Architectural Coating	0.000E+00	0.000E+00	4.000E-05	
	Total (tons/year)	**0.000E+00**	**3.340E-03**	**5.800E-04**	**3.920E-03**
	Trip Distance assumed in CalEEMod (mi)	20.0	7.3	10.8	
	Offsite Project Trip Distance Project>Willow Ave>John Muir Pkwy (mi)	0.60	0.60	0.60	
	Offsite Project Emissions Project>Willow Ave>John Muir Pkwy (tons/year)	**0.000E+00**	**2.766E-04**	**3.246E-05**	

Emissions Along Roadway Segment	
Offsite Project Exhaust Emissions (tons/year)	**3.090E-04**
Offsite Project Exhaust Emissions (grams/sec)	**1.780E-05**
Offsite Project Fugitive Emissions (tons/year)	**0.000E+00**
Offsite Project Fugitive Emissions (grams/sec)	**0.000E+00**

Onsite Exhaust Emissions (tons/year)	**2.129E-01**
Total Onsite Emissions (tons/year)	**2.129E-01**
Onsite Exhaust Emissions (g/m2-sec)	**5.464E-07**

Total PM@2.5 Exhaust (tons/year)	2.132E-01
Total PM2.5 (tons/year)	**2.132E-01**

Willow Ave Storage Facility

2018 **No Mitigation** **At Sensitive Receptors**

Construction Annual DPM Emissions (as PM2.5 Exhaust)

Annual Average Onsite DPM Exhaust Emission Rate: 7.91918E-07
Annual Average Offsite DPM Exhaust Emission Rate: 4.23650E-07

X (m)	Y (m)	Onsite Annual DPM Exhaust w/Unit Emissions (ug/m3)	Onsite Annual DPM Exhaust w/Actual Emissions (ug/m3)	Offsite Annual DPM Exhaust w/Unit Emissions (ug/m3)	Offsite Annual DPM Exhaust w/Actual Emissions (ug/m3)	Total DPM (ug/m3)
565075.43	4207459.29	1.56868	0.12423	0.00004	1.69460E-06	0.12423
565374.04	4207297.22	1.11147	0.08802	0.00001	4.23650E-07	0.08802
565350.7	4207277.38	1.04941	0.08310	0.00001	4.23650E-07	0.08311
565325.02	4207271.54	1.06886	0.08464	0.00001	4.23650E-07	0.08465
565305.17	4207270.37	1.08011	0.08554	0.00001	4.23650E-07	0.08554
565273.66	4207262.2	0.99605	0.07888	0.00001	4.23650E-07	0.07888
565254.98	4207254.03	0.90341	0.07154	0.00001	4.23650E-07	0.07154
565231.64	4207249.36	0.8061	0.06384	0.00001	4.23650E-07	0.06384
565212.96	4207236.52	0.68951	0.05460	0.00001	4.23650E-07	0.05460
565183.78	4207233.02	0.57547	0.04557	0.00001	4.23650E-07	0.04557
565501.27	4207312.39	0.43397	0.03437	0.00001	4.23650E-07	0.03437
565516.44	4207325.23	0.43197	0.03421	0.00001	4.23650E-07	0.03421
565543.29	4207324.07	0.35225	0.02790	0.00001	4.23650E-07	0.02790
565372.87	4207269.21	0.91688	0.07261	0.00001	4.23650E-07	0.07261
565474.42	4207265.7	0.41709	0.03303	0.00001	4.23650E-07	0.03303
565222.3	4207670.73	1.15291	0.09130	0.00014	5.93110E-06	0.09131
565184.95	4207657.89	0.82263	0.06515	0.00014	5.93110E-06	0.06515
565236.31	4207708.08	1.04611	0.08284	0.00010	4.23650E-06	0.08285
565370.54	4207706.91	2.01093	0.15925	0.00004	1.69460E-06	0.15925
565399.72	4207696.41	2.20314	0.17447	0.00004	1.69460E-06	0.17447
565428.9	4207688.24	2.28553	0.18100	0.00003	1.27095E-06	0.18100
565151.1	4207652.05	0.68589	0.05432	0.00015	6.35475E-06	0.05432
565105.58	4207646.22	0.67052	0.05310	0.00016	6.77840E-06	0.05311
564896.65	4207642.72	0.35939	0.02846	0.00013	5.50745E-06	0.02847
564876.8	4207628.71	0.35874	0.02841	0.00015	6.35475E-06	0.02842
564858.13	4207614.7	0.35734	0.02830	0.00018	7.62570E-06	0.02831
564838.29	4207611.2	0.34017	0.02694	0.00018	7.62570E-06	0.02695
564807.94	4207600.7	0.32227	0.02552	0.00022	9.32030E-06	0.02553
564777.59	4207600.7	0.29748	0.02356	0.00024	1.01676E-05	0.02357
564749.58	4207603.03	0.27448	0.02174	0.00024	1.01676E-05	0.02175
564726.23	4207605.37	0.25871	0.02049	0.00024	1.01676E-05	0.02050
564701.72	4207615.87	0.23784	0.01883	0.00022	9.32030E-06	0.01884
564681.88	4207624.04	0.22303	0.01766	0.00021	8.89665E-06	0.01767
564649.2	4207633.38	0.2041	0.01616	0.00020	8.47300E-06	0.01617
564630.52	4207640.38	0.19286	0.01527	0.00019	8.04935E-06	0.01528
564609.51	4207650.89	0.18012	0.01426	0.00017	7.20205E-06	0.01427
564589.67	4207655.56	0.17212	0.01363	0.00017	7.20205E-06	0.01364
564563.99	4207668.4	0.15947	0.01263	0.00015	6.35475E-06	0.01264
564538.31	4207678.9	0.14898	0.01180	0.00013	5.50745E-06	0.01180
564517.3	4207687.07	0.14115	0.01118	0.00012	5.08380E-06	0.01118
CONCUNIT ug/	m^3	0	0.00000	0.00000	0.00000E+00	0.00000
DEPUNIT g/m^	2	0	0.00000	0.00000	0.00000E+00	0.00000

Willow Ave Storage Facility

2019 **No Mitigation** **at Sensitive Receptors**

Construction Annual DPM Emissions (as PM2.5 Exhaust)

Annual Average Onsite DPM Exhaust Emission Rate: 5.4636E-07 grams/m2/sec

Annual Average Offsite DPM Exhaust Emission Rate: 1.77977E-05 grams/sec

X (m)	Y (m)	Onsite Annual DPM Exhaust w/Unit Emissions (ug/m3)	Onsite Annual DPM Exhaust w/Actual Emissions (ug/m3)	Offsite Annual DPM Exhaust w/Unit Emissions (ug/m3)	Offsite Annual DPM Exhaust w/Actual Emissions (ug/m3)	Total DPM (ug/m3)
565075.43	4207459.29	1.56868	0.08571	0.00004	7.11909E-05	0.08578
565374.04	4207297.22	1.11147	0.06073	0.00001	1.77977E-05	0.06074
565350.7	4207277.38	1.04941	0.05734	0.00001	1.77977E-05	0.05735
565325.02	4207271.54	1.06886	0.05840	0.00001	1.77977E-05	0.05842
565305.17	4207270.37	1.08011	0.05901	0.00001	1.77977E-05	0.05903
565273.66	4207262.2	0.99605	0.05442	0.00001	1.77977E-05	0.05444
565254.98	4207254.03	0.90341	0.04936	0.00001	1.77977E-05	0.04938
565231.64	4207249.36	0.8061	0.04404	0.00001	1.77977E-05	0.04406
565212.96	4207236.52	0.68951	0.03767	0.00001	1.77977E-05	0.03769
565183.78	4207233.02	0.57547	0.03144	0.00001	1.77977E-05	0.03146
565501.27	4207312.39	0.43397	0.02371	0.00001	1.77977E-05	0.02373
565516.44	4207325.23	0.43197	0.02360	0.00001	1.77977E-05	0.02362
565543.29	4207324.07	0.35225	0.01925	0.00001	1.77977E-05	0.01926
565372.87	4207269.21	0.91688	0.05009	0.00001	1.77977E-05	0.05011
565474.42	4207265.7	0.41709	0.02279	0.00001	1.77977E-05	0.02281
565222.3	4207670.73	1.15291	0.06299	0.00014	2.49168E-04	0.06324
565184.95	4207657.89	0.82263	0.04495	0.00014	2.49168E-04	0.04519
565236.31	4207708.08	1.04611	0.05716	0.00010	1.77977E-04	0.05733
565370.54	4207706.91	2.01093	0.10987	0.00004	7.11909E-05	0.10994
565399.72	4207696.41	2.20314	0.12037	0.00004	7.11909E-05	0.12044
565428.9	4207688.24	2.28553	0.12487	0.00003	5.33932E-05	0.12493
565151.1	4207652.05	0.68589	0.03747	0.00015	2.66966E-04	0.03774
565105.58	4207646.22	0.67052	0.03663	0.00016	2.84764E-04	0.03692
564896.65	4207642.72	0.35939	0.01964	0.00013	2.31370E-04	0.01987
564876.8	4207628.71	0.35874	0.01960	0.00015	2.66966E-04	0.01987
564858.13	4207614.7	0.35734	0.01952	0.00018	3.20359E-04	0.01984
564838.29	4207611.2	0.34017	0.01859	0.00018	3.20359E-04	0.01891
564807.94	4207600.7	0.32227	0.01761	0.00022	3.91550E-04	0.01800
564777.59	4207600.7	0.29748	0.01625	0.00024	4.27145E-04	0.01668
564749.58	4207603.03	0.27448	0.01500	0.00024	4.27145E-04	0.01542
564726.23	4207605.37	0.25871	0.01413	0.00024	4.27145E-04	0.01456
564701.72	4207615.87	0.23784	0.01299	0.00022	3.91550E-04	0.01339
564681.88	4207624.04	0.22303	0.01219	0.00021	3.73752E-04	0.01256
564649.2	4207633.38	0.2041	0.01115	0.00020	3.55954E-04	0.01151
564630.52	4207640.38	0.19286	0.01054	0.00019	3.38157E-04	0.01088
564609.51	4207650.89	0.18012	0.00984	0.00017	3.02561E-04	0.01014
564589.67	4207655.56	0.17212	0.00940	0.00017	3.02561E-04	0.00971
564563.99	4207668.4	0.15947	0.00871	0.00015	2.66966E-04	0.00898
564538.31	4207678.9	0.14898	0.00814	0.00013	2.31370E-04	0.00837
564517.3	4207687.07	0.14115	0.00771	0.00012	2.13573E-04	0.00793
CONCUNIT ug/	m^3	0	0.00000	0.00000	0.00000E+00	0.00000
DEPUNIT g/m^	2	0	0.00000	0.00000	0.00000E+00	0.00000

Willow Ave Storage Facility

Cancer Risk Impacts from Construction at the Maximum Impacted Sensitive Receptor - Infant

Cancer Potency Factor: 1.1 $(mg/kg\text{-}day)^{-1}$

Averaging Period 25550 days

Year	Unit DPM Concentration (ug/m3)	Age Sensitivty Factor	Daily Breathing Rate (L/kg-day)	Time At Home Factor	Exposure Frequency (days/year)	Exposure Duration (years)	Unit Risk Factor $(ug/m3)^{-1}$
3rd Trimester	1	10	361	0.85	98	0.25	3.2
1	1	10	1090	0.85	98	1	39.1
2	1	10	1090	0.85	322	1	128.4

BAAQMD 2016. Air Toxics NSR Program Health Risk Assessment (HRA) Guidelines

Willow Ave Storage Facility **No Mitigation** **at Sensitive Recptors**

Estimated Cancer Risks from Construction DPM - Infant Receptors

X (m)	Y (m)	InfantCancer Risk (3rd Trimester) 2018 (/million)	Infant Cancer Risk (year 1) 2018 (/million)	Infant Cancer Risk (year 2) 2019 (/million)	Total Cancer Risk (/million)
565075.43	4207459.29	0.402	4.856	11.017	16.27560
565374.04	4207297.22	0.285	3.441	7.802	11.52766
565350.7	4207277.38	0.269	3.249	7.367	10.88413
565325.02	4207271.54	0.274	3.309	7.503	11.08582
565305.17	4207270.37	0.277	3.344	7.582	11.20248
565273.66	4207262.2	0.255	3.083	6.992	10.33082
565254.98	4207254.03	0.232	2.797	6.342	9.37019
565231.64	4207249.36	0.207	2.495	5.659	8.36114
565212.96	4207236.52	0.177	2.135	4.841	7.15216
565183.78	4207233.02	0.148	1.781	4.041	5.96963
565501.27	4207312.39	0.111	1.343	3.048	4.50235
565516.44	4207325.23	0.111	1.337	3.034	4.48161
565543.29	4207324.07	0.090	1.090	2.474	3.65495
565372.87	4207269.21	0.235	2.838	6.436	9.50987
565474.42	4207265.7	0.107	1.291	2.929	4.32731
565222.3	4207670.73	0.296	3.569	8.123	11.98733
565184.95	4207657.89	0.211	2.547	5.805	8.56250
565236.31	4207708.08	0.268	3.239	7.364	10.87065
565370.54	4207706.91	0.515	6.225	14.121	20.86150
565399.72	4207696.41	0.565	6.820	15.470	22.85462
565428.9	4207688.24	0.586	7.075	16.046	23.70666
565151.1	4207652.05	0.176	2.124	4.848	7.14688
565105.58	4207646.22	0.172	2.076	4.742	6.98980
564896.65	4207642.72	0.092	1.113	2.552	3.75664
564876.8	4207628.71	0.092	1.111	2.552	3.75450
564858.13	4207614.7	0.092	1.107	2.549	3.74690
564838.29	4207611.2	0.087	1.053	2.428	3.56885
564807.94	4207600.7	0.083	0.998	2.312	3.39246
564777.59	4207600.7	0.076	0.921	2.142	3.14000
564749.58	4207603.03	0.070	0.850	1.981	2.90151
564726.23	4207605.37	0.066	0.801	1.870	2.73798
564701.72	4207615.87	0.061	0.737	1.719	2.51696
564681.88	4207624.04	0.057	0.691	1.613	2.36109
564649.2	4207633.38	0.052	0.632	1.478	2.16249
564630.52	4207640.38	0.049	0.597	1.397	2.04363
564609.51	4207650.89	0.046	0.558	1.303	1.90692
564589.67	4207655.56	0.044	0.533	1.247	1.82396
564563.99	4207668.4	0.041	0.494	1.153	1.68818
564538.31	4207678.9	0.038	0.461	1.075	1.57479
564517.3	4207687.07	0.036	0.437	1.018	1.49130
CONCUNIT ug	m^3	0.000	0.000	0.000	0.00000
DEPUNIT g/m	2	0.000	0.000	0.000	0.00000

Maximum Caner Risk
23.7

BAAQMD threshold of significance
10

Exceed thresholds?
YES

Willow Ave Storage Facility

No Mitigation

Cancer Risk Impacts from Construction at the Maximum Impacted Sensitive Receptor - Child
UTM: (565046,4185977)

Cancer Potency Factor:	1.1	$(mg/kg\text{-}day)^{-1}$
Exposure Frequency	350	days/year
Averaging Period	25550	days

Year	DPM Concentration (ug/m3)	Age Sensitivty Factor	Daily Breathing Rate (L/kg-day)	Time At Home Factor	Exposure Duration (years)	Unit Risk Factor $(ug/m3)^{-1}$
1	1	3	572	0.73	1	18.9
2	1	3	572	0.73	1	18.9

BAAQMD 2016. Air Toxics NSR Program Health Risk Assessment (HRA) Guidelines

Willow Ave Storage Facility

No Mitigation **at Sensitive Receptors**

Estimated Cancer Risks from Construction DPM

X (m)	Y (m)	Child Cancer Risk (year 1) 2017 (/million)	Child Cancer Risk (year 2) 2017 (/million)	Total Cancer Risk (/million)
565075.43	4207459.29	2.345	1.619	3.96407
565374.04	4207297.22	1.661	1.147	2.80807
565350.7	4207277.38	1.569	1.083	2.65130
565325.02	4207271.54	1.598	1.103	2.70043
565305.17	4207270.37	1.615	1.114	2.72885
565273.66	4207262.2	1.489	1.028	2.51650
565254.98	4207254.03	1.350	0.932	2.28248
565231.64	4207249.36	1.205	0.832	2.03666
565212.96	4207236.52	1.031	0.711	1.74214
565183.78	4207233.02	0.860	0.594	1.45406
565501.27	4207312.39	0.649	0.448	1.09661
565516.44	4207325.23	0.646	0.446	1.09156
565543.29	4207324.07	0.527	0.364	0.89017
565372.87	4207269.21	1.371	0.946	2.31651
565474.42	4207265.7	0.623	0.430	1.05397
565222.3	4207670.73	1.724	1.194	2.91722
565184.95	4207657.89	1.230	0.853	2.08289
565236.31	4207708.08	1.564	1.082	2.64605
565370.54	4207706.91	3.006	2.075	5.08126
565399.72	4207696.41	3.293	2.273	5.56680
565428.9	4207688.24	3.416	2.358	5.77459
565151.1	4207652.05	1.025	0.712	1.73781
565105.58	4207646.22	1.002	0.697	1.69933
564896.65	4207642.72	0.537	0.375	0.91234
564876.8	4207628.71	0.536	0.375	0.91138
564858.13	4207614.7	0.534	0.375	0.90888
564838.29	4207611.2	0.509	0.357	0.86551
564807.94	4207600.7	0.482	0.340	0.82166
564777.59	4207600.7	0.445	0.315	0.75973
564749.58	4207603.03	0.410	0.291	0.70163
564726.23	4207605.37	0.387	0.275	0.66179
564701.72	4207615.87	0.356	0.253	0.60838
564681.88	4207624.04	0.334	0.237	0.57063
564649.2	4207633.38	0.305	0.217	0.52246
564630.52	4207640.38	0.288	0.205	0.49373
564609.51	4207650.89	0.269	0.191	0.46085
564589.67	4207655.56	0.257	0.183	0.44065
564563.99	4207668.4	0.238	0.170	0.40800
564538.31	4207678.9	0.223	0.158	0.38081
564517.3	4207687.07	0.211	0.150	0.36069
CONCUNIT ug	m^3	0.000	0.000	0.00000
DEPUNIT g/m	2	0.000	0.000	0.00000

Maximum Caner Risk
5.8
BAAQMD threshold of significance
10
Exceed thresholds?
No

Willow Ave Storage Facility

No Mitigation

Cancer Risk Impacts from Construction at the Maximum Impacted Sensitive Receptor - Adult

Cancer Potency Factor:	1.1	$(mg/kg\text{-}day)^{-1}$
Exposure Frequency	350	days/year
Averaging Period	25550	days

Year	DPM Concentration (ug/m3)	Age Sensitivty Factor	Daily Breathing Rate (L/kg-day)	Time At Home Factor	Exposure Duration (years)	Unit Risk Factor $(ug/m3)^{-1}$
1	1	1	261	0.72	1	2.8
2	1	1	261	0.72	1	2.8

BAAQMD 2016. Air Toxics NSR Program Health Risk Assessment (HRA) Guidelines

Willow Ave Storage Facility

No Mitigation **at Sensitive Receptors**

Estimated Cancer Risks from Construction DPM

X (m)	Y (m)	Adult Cancer Risk (year 1) 2018 (/million)	Adult Cancer Risk (year 2) 2019 (/million)	Total Cancer Risk (/million)
565075.43	4207459.29	0.352	0.243	0.59467
565374.04	4207297.22	0.249	0.172	0.42125
565350.7	4207277.38	0.235	0.162	0.39773
565325.02	4207271.54	0.240	0.165	0.40510
565305.17	4207270.37	0.242	0.167	0.40937
565273.66	4207262.2	0.223	0.154	0.37751
565254.98	4207254.03	0.203	0.140	0.34240
565231.64	4207249.36	0.181	0.125	0.30553
565212.96	4207236.52	0.155	0.107	0.26135
565183.78	4207233.02	0.129	0.089	0.21813
565501.27	4207312.39	0.097	0.067	0.16451
565516.44	4207325.23	0.097	0.067	0.16375
565543.29	4207324.07	0.079	0.055	0.13354
565372.87	4207269.21	0.206	0.142	0.34751
565474.42	4207265.7	0.094	0.065	0.15811
565222.3	4207670.73	0.259	0.179	0.43763
565184.95	4207657.89	0.184	0.128	0.31246
565236.31	4207708.08	0.235	0.162	0.39695
565370.54	4207706.91	0.451	0.311	0.76226
565399.72	4207696.41	0.494	0.341	0.83510
565428.9	4207688.24	0.513	0.354	0.86627
565151.1	4207652.05	0.154	0.107	0.26070
565105.58	4207646.22	0.150	0.105	0.25492
564896.65	4207642.72	0.081	0.056	0.13686
564876.8	4207628.71	0.080	0.056	0.13672
564858.13	4207614.7	0.080	0.056	0.13635
564838.29	4207611.2	0.076	0.054	0.12984
564807.94	4207600.7	0.072	0.051	0.12326
564777.59	4207600.7	0.067	0.047	0.11397
564749.58	4207603.03	0.062	0.044	0.10525
564726.23	4207605.37	0.058	0.041	0.09928
564701.72	4207615.87	0.053	0.038	0.09127
564681.88	4207624.04	0.050	0.036	0.08560
564649.2	4207633.38	0.046	0.033	0.07838
564630.52	4207640.38	0.043	0.031	0.07407
564609.51	4207650.89	0.040	0.029	0.06913
564589.67	4207655.56	0.039	0.027	0.06610
564563.99	4207668.4	0.036	0.025	0.06121
564538.31	4207678.9	0.033	0.024	0.05713
564517.3	4207687.07	0.032	0.022	0.05411
CONCUNIT ug	m^3	0.000	0.000	0.00000
DEPUNIT g/m	2	0.000	0.000	0.00000

Maximum Caner Risk
0.9
BAAQMD threshold of significance
10
Exceed thresholds?
No

Willow Ave Storage Facility

No Mitigation
at Sensitive Receptors

Chronic Non-Cancer Hazard Index

Reference Exposure Level (REL) for DPM: 5 ug/m3

CNCHI = DPM/REL

X (m)	Y (m)	2018 DPM (ug/m3)	2019 DPM (ug/m3)	Max DPM (ug/m3)	CNCHI
565075.43	4207459.29	0.124228	0.085778	0.124228	0.02485
565374.04	4207297.22	0.08802	0.060744	0.08802	0.01760
565350.7	4207277.38	0.083105	0.057353	0.083105	0.01662
565325.02	4207271.54	0.084645	0.058416	0.084645	0.01693
565305.17	4207270.37	0.085536	0.059031	0.085536	0.01711
565273.66	4207262.2	0.078879	0.054438	0.078879	0.01578
565254.98	4207254.03	0.071543	0.049377	0.071543	0.01431
565231.64	4207249.36	0.063837	0.04406	0.063837	0.01277
565212.96	4207236.52	0.054604	0.03769	0.054604	0.01092
565183.78	4207233.02	0.045573	0.031459	0.045573	0.00911
565501.27	4207312.39	0.034367	0.023728	0.034367	0.00687
565516.44	4207325.23	0.034209	0.023619	0.034209	0.00684
565543.29	4207324.07	0.027896	0.019263	0.027896	0.00558
565372.87	4207269.21	0.07261	0.050112	0.07261	0.01452
565474.42	4207265.7	0.033031	0.022806	0.033031	0.00661
565222.3	4207670.73	0.091307	0.06324	0.091307	0.01826
565184.95	4207657.89	0.065152	0.045194	0.065152	0.01303
565236.31	4207708.08	0.082848	0.057333	0.082848	0.01657
565370.54	4207706.91	0.159251	0.10994	0.159251	0.03185
565399.72	4207696.41	0.174472	0.120442	0.174472	0.03489
565428.9	4207688.24	0.180997	0.124926	0.180997	0.03620
565151.1	4207652.05	0.054323	0.037741	0.054323	0.01086
565105.58	4207646.22	0.053106	0.036919	0.053106	0.01062
564896.65	4207642.72	0.028466	0.019867	0.028466	0.00569
564876.8	4207628.71	0.028416	0.019867	0.028416	0.00568
564858.13	4207614.7	0.028306	0.019844	0.028306	0.00566
564838.29	4207611.2	0.026946	0.018906	0.026946	0.00539
564807.94	4207600.7	0.02553	0.017999	0.02553	0.00511
564777.59	4207600.7	0.023568	0.01668	0.023568	0.00471
564749.58	4207603.03	0.021747	0.015424	0.021747	0.00435
564726.23	4207605.37	0.020498	0.014562	0.020498	0.00410
564701.72	4207615.87	0.018844	0.013386	0.018844	0.00377
564681.88	4207624.04	0.017671	0.012559	0.017671	0.00353
564649.2	4207633.38	0.016172	0.011507	0.016172	0.00323
564630.52	4207640.38	0.015281	0.010875	0.015281	0.00306
564609.51	4207650.89	0.014271	0.010144	0.014271	0.00285
564589.67	4207655.56	0.013638	0.009707	0.013638	0.00273
564563.99	4207668.4	0.012635	0.00898	0.012635	0.00253
564538.31	4207678.9	0.011804	0.008371	0.011804	0.00236
564517.3	4207687.07	0.011183	0.007925	0.011183	0.00224
CONCUNIT ug/ m^3		0	0	0	0.00000
DEPUNIT g/m^	2	0	0	0	0.00000

Maximum Caner Risk
0.04

BAAQMD threshold of significance
1

Exceed thresholds?
No

Willow Ave Storage Facility

No Mitigation
at Sensitive Receptors

Annual Average PM2.5 (Exhaust + Fugitive Dust)

X (m)	Y (m)	2018 PM2.5 (ug/m3)	2019 PM2.5 (ug/m3)	Max PM2.5 (ug/m3)
565075.43	4207459.29	0.124228	0.085778	0.12423
565374.04	4207297.22	0.08802	0.060744	0.08802
565350.7	4207277.38	0.083105	0.057353	0.08311
565325.02	4207271.54	0.084645	0.058416	0.08465
565305.17	4207270.37	0.085536	0.059031	0.08554
565273.66	4207262.2	0.078879	0.054438	0.07888
565254.98	4207254.03	0.071543	0.049377	0.07154
565231.64	4207249.36	0.063837	0.04406	0.06384
565212.96	4207236.52	0.054604	0.03769	0.05460
565183.78	4207233.02	0.045573	0.031459	0.04557
565501.27	4207312.39	0.034367	0.023728	0.03437
565516.44	4207325.23	0.034209	0.023619	0.03421
565543.29	4207324.07	0.027896	0.019263	0.02790
565372.87	4207269.21	0.07261	0.050112	0.07261
565474.42	4207265.7	0.033031	0.022806	0.03303
565222.3	4207670.73	0.091307	0.06324	0.09131
565184.95	4207657.89	0.065152	0.045194	0.06515
565236.31	4207708.08	0.082848	0.057333	0.08285
565370.54	4207706.91	0.159251	0.10994	0.15925
565399.72	4207696.41	0.174472	0.120442	0.17447
565428.9	4207688.24	0.180997	0.124926	0.18100
565151.1	4207652.05	0.054323	0.037741	0.05432
565105.58	4207646.22	0.053106	0.036919	0.05311
564896.65	4207642.72	0.028466	0.019867	0.02847
564876.8	4207628.71	0.028416	0.019867	0.02842
564858.13	4207614.7	0.028306	0.019844	0.02831
564838.29	4207611.2	0.026946	0.018906	0.02695
564807.94	4207600.7	0.02553	0.017999	0.02553
564777.59	4207600.7	0.023568	0.01668	0.02357
564749.58	4207603.03	0.021747	0.015424	0.02175
564726.23	4207605.37	0.020498	0.014562	0.02050
564701.72	4207615.87	0.018844	0.013386	0.01884
564681.88	4207624.04	0.017671	0.012559	0.01767
564649.2	4207633.38	0.016172	0.011507	0.01617
564630.52	4207640.38	0.015281	0.010875	0.01528
564609.51	4207650.89	0.014271	0.010144	0.01427
564589.67	4207655.56	0.013638	0.009707	0.01364
564563.99	4207668.4	0.012635	0.00898	0.01264
564538.31	4207678.9	0.011804	0.008371	0.01180
564517.3	4207687.07	0.011183	0.007925	0.01118
CONCUNIT ug/	m^3	0	0	0.00000
DEPUNIT g/m^	2	0	0	0.00000

Maximum Caner Risk
0.2
BAAQMD threshold of significance
0.3
Exceed thresholds?
No

Willow Ave Service Commercial

2018 **No Mitigation** **At Sensitive Receptors**

Construction Annual DPM Emissions (as PM2.5 Exhaust)

Annual Average Onsite DPM Exhaust Emission Rate: 1.15599E-06
Annual Average Offsite DPM Exhaust Emission Rate: 5.95228E-07

X (m)	Y (m)	Onsite Annual DPM Exhaust w/Unit Emissions (ug/m3)	Onsite Annual DPM Exhaust w/Actual Emissions (ug/m3)	Offsite Annual DPM Exhaust w/Unit Emissions (ug/m3)	Offsite Annual DPM Exhaust w/Actual Emissions (ug/m3)	Total DPM (ug/m3)
565075.43	4207459.29	3.7009	0.42782	0.00004	2.38091E-06	0.42782
565374.04	4207297.22	0.44195	0.05109	0.00001	5.95228E-07	0.05109
565350.7	4207277.38	0.40339	0.04663	0.00001	5.95228E-07	0.04663
565325.02	4207271.54	0.47282	0.05466	0.00001	5.95228E-07	0.05466
565305.17	4207270.37	0.5309	0.06137	0.00001	5.95228E-07	0.06137
565273.66	4207262.2	0.62483	0.07223	0.00001	5.95228E-07	0.07223
565254.98	4207254.03	0.67107	0.07757	0.00001	5.95228E-07	0.07758
565231.64	4207249.36	0.75693	0.08750	0.00001	5.95228E-07	0.08750
565212.96	4207236.52	0.7601	0.08787	0.00001	5.95228E-07	0.08787
565183.78	4207233.02	0.84604	0.09780	0.00001	5.95228E-07	0.09780
565501.27	4207312.39	0.28611	0.03307	0.00001	5.95228E-07	0.03307
565516.44	4207325.23	0.28943	0.03346	0.00001	5.95228E-07	0.03346
565543.29	4207324.07	0.24693	0.02854	0.00001	5.95228E-07	0.02855
565372.87	4207269.21	0.34369	0.03973	0.00001	5.95228E-07	0.03973
565474.42	4207265.7	0.23106	0.02671	0.00001	5.95228E-07	0.02671
565222.3	4207670.73	1.09623	0.12672	0.00014	8.33320E-06	0.12673
565184.95	4207657.89	1.02905	0.11896	0.00014	8.33320E-06	0.11897
565236.31	4207708.08	0.9166	0.10596	0.00010	5.95228E-06	0.10596
565370.54	4207706.91	0.73374	0.08482	0.00004	2.38091E-06	0.08482
565399.72	4207696.41	0.66359	0.07671	0.00004	2.38091E-06	0.07671
565428.9	4207688.24	0.5875	0.06791	0.00003	1.78569E-06	0.06792
565151.1	4207652.05	0.92822	0.10730	0.00015	8.92843E-06	0.10731
565105.58	4207646.22	0.77058	0.08908	0.00016	9.52366E-06	0.08909
564896.65	4207642.72	0.28986	0.03351	0.00013	7.73797E-06	0.03352
564876.8	4207628.71	0.28873	0.03338	0.00015	8.92843E-06	0.03339
564858.13	4207614.7	0.2831	0.03273	0.00018	1.07141E-05	0.03274
564838.29	4207611.2	0.26605	0.03076	0.00018	1.07141E-05	0.03077
564807.94	4207600.7	0.24651	0.02850	0.00022	1.30950E-05	0.02851
564777.59	4207600.7	0.22472	0.02598	0.00024	1.42855E-05	0.02599
564749.58	4207603.03	0.20539	0.02374	0.00024	1.42855E-05	0.02376
564726.23	4207605.37	0.19265	0.02227	0.00024	1.42855E-05	0.02228
564701.72	4207615.87	0.17649	0.02040	0.00022	1.30950E-05	0.02042
564681.88	4207624.04	0.16513	0.01909	0.00021	1.24998E-05	0.01910
564649.2	4207633.38	0.15056	0.01740	0.00020	1.19046E-05	0.01742
564630.52	4207640.38	0.14197	0.01641	0.00019	1.13093E-05	0.01642
564609.51	4207650.89	0.13243	0.01531	0.00017	1.01189E-05	0.01532
564589.67	4207655.56	0.12631	0.01460	0.00017	1.01189E-05	0.01461
564563.99	4207668.4	0.11698	0.01352	0.00015	8.92843E-06	0.01353
564538.31	4207678.9	0.10917	0.01262	0.00013	7.73797E-06	0.01263
564517.3	4207687.07	0.10333	0.01194	0.00012	7.14274E-06	0.01195
CONCUNIT ug/	m^3	0	0.00000	0.00000	0.00000E+00	0.00000
DEPUNIT g/m^	2	0	0.00000	0.00000	0.00000E+00	0.00000

Willow Ave Service Commercial

No Mitigation

Construction Annual DPM Emissions (as PM2.5 Exhaust)

Construction Scheduling	**2018**	
	13.6	hours/day
	7	days/week
	14	weeks/year
	1332.8	hours/year

Onsite Construction Area Source Size (m2): 15372 from AERMOD

Onsite Construction PM2.5 Emissions

2018

Construction Activity	**Onsite Annual DPM Exhaust Emissions (tons/year)**	**Onsite Annual DPM Exhaust Emissions (g/sec)**	**Onsite DPM Source Exhaust Emissions (g/m2-sec)**
Site Preparation	7.110E-02	1.346E-02	8.753E-07
Grading	2.280E-02	4.315E-03	2.807E-07
Total	**9.390E-02**	**1.777E-02**	**1.156E-06**

Offsite Construction Vehicle PM2.5 Emissions

2018

Construction Activity	**Offsite Hauling Annual DPM Exhaust Emissions (tons/year)**	**Offsite Vendor Annual DPM Exhaust Emissions (tons/year)**	**Offsite Workers Annual DPM Exhaust Emissions (tons/year)**	
Site Preparation	0.000E+00	0.000E+00	3.000E-05	
Grading	3.000E-05	0.000E+00	1.000E-05	
Total (tons/year)	**3.000E-05**	**0.000E+00**	**4.000E-05**	**7.000E-05**
Trip Distance assumed in CalEEMod (mi)	20.0	7.3	10.8	
Offsite Project Trip Distance Along Roadway Segment Project>Willow Ave>John Muir Pkwy (mi)	0.60	0.60	0.60	
Offsite Project Emissions Along Roadway Segment Project>Willow Ave>John Muir Pkwy (tons/year)	**9.067E-07**	**0.000E+00**	**2.239E-06**	

Offsite Emissions Along Roadway Segment Analyzed	
Total Offsite Project Exhaust Emissions (tons/year)	**3.145E-06**
Total Offsite Project Exhaust Emissions (grams/sec)	**5.952E-07**

Onsite Exhaust Emissions (tons/year)	**9.390E-02**
Total Onsite Emissions (tons/year)	**9.390E-02**
Onsite Exhaust Emissions (g/m2-sec)	**1.156E-06**

Total PM@2.5 Exhaust (tons/year)	9.390E-02

Willow Ave Service Commercial

No Mitigation

Construction Annual DPM Emissions (as PM2.5 Exhaust)

Construction Scheduling	**2019**	
	13.6	hours/day
	7	days/week
	39	weeks/year
	3712.8	hours/year

Onsite Construction Area Source Size (m2): 15372.00

Onsite Construction PM2.5 Emissions

2019	**Construction Activity**	**Onsite Annual DPM Exhaust Emissions (tons/year)**	**Onsite Annual DPM Exhaust Emissions (g/sec)**	**Onsite DPM Source Exhaust Emissions (g/m2-sec)**
	Grading	5.720E-02	3.886E-03	2.528E-07
	Building Construction	9.220E-02	6.263E-03	4.075E-07
	Paving	1.990E-02	1.352E-03	8.794E-08
	Architectural Coating	2.000E-03	1.359E-04	8.839E-09
	Total	**1.713E-01**	**1.164E-02**	**7.570E-07**

Offsite Construction Vehicle PM2.5 Emissions

2019	**Construction Activity**	**Offsite Hauling Annual DPM Exhaust Emissions (tons/year)**	**Offsite Vendor Annual DPM Exhaust Emissions (tons/year)**	**Offsite Workers Annual DPM Exhaust Emissions (tons/year)**	
	Grading	7.000E-05	0.000E+00	3.000E-05	
	Building Construction	0.000E+00	1.770E-03	2.500E-04	
	Paving	0.000E+00	0.000E+00	3.000E-05	
	Architectural Coating	0.000E+00	0.000E+00	1.000E-05	
	Total (tons/year)	**7.000E-05**	**1.770E-03**	**3.200E-04**	**2.160E-03**
	Trip Distance assumed in CalEEMod (mi)	20.0	7.3	10.8	
	Offsite Project Trip Distance Project>Willow Ave>John Muir Pkwy (mi)	0.60	0.60	0.60	
	Offsite Project Emissions Project>Willow Ave>John Muir Pkwy (tons/year)	**2.116E-06**	**1.466E-04**	**1.791E-05**	

Emissions Along Roadway Segment	
Offsite Project Exhaust Emissions (tons/year)	**1.666E-04**
Offsite Project Exhaust Emissions (grams/sec)	**1.132E-05**
Offsite Project Fugitive Emissions (tons/year)	**0.000E+00**
Offsite Project Fugitive Emissions (grams/sec)	**0.000E+00**

Onsite Exhaust Emissions (tons/year)	**1.713E-01**
Total Onsite Emissions (tons/year)	**1.713E-01**
Onsite Exhaust Emissions (g/m2-sec)	**7.570E-07**

Total PM@2.5 Exhaust (tons/year)	1.715E-01
Total PM2.5 (tons/year)	**1.715E-01**

Willow Ave Service Commercial

2019 **No Mitigation** **at Sensitive Receptors**

Construction Annual DPM Emissions (as PM2.5 Exhaust)

Annual Average Onsite DPM Exhaust Emission Rate: 7.57022E-07 grams/m2/sec

Annual Average Offsite DPM Exhaust Emission Rate: 1.13164E-05 grams/sec

X (m)	Y (m)	Onsite Annual DPM Exhaust w/Unit Emissions (ug/m3)	Onsite Annual DPM Exhaust w/Actual Emissions (ug/m3)	Offsite Annual DPM Exhaust w/Unit Emissions (ug/m3)	Offsite Annual DPM Exhaust w/Actual Emissions (ug/m3)	Total DPM (ug/m3)
565075.43	4207459.29	3.7009	0.28017	0.00004	4.52654E-05	0.28021
565374.04	4207297.22	0.44195	0.03346	0.00001	1.13164E-05	0.03347
565350.7	4207277.38	0.40339	0.03054	0.00001	1.13164E-05	0.03055
565325.02	4207271.54	0.47282	0.03579	0.00001	1.13164E-05	0.03580
565305.17	4207270.37	0.5309	0.04019	0.00001	1.13164E-05	0.04020
565273.66	4207262.2	0.62483	0.04730	0.00001	1.13164E-05	0.04731
565254.98	4207254.03	0.67107	0.05080	0.00001	1.13164E-05	0.05081
565231.64	4207249.36	0.75693	0.05730	0.00001	1.13164E-05	0.05731
565212.96	4207236.52	0.7601	0.05754	0.00001	1.13164E-05	0.05755
565183.78	4207233.02	0.84604	0.06405	0.00001	1.13164E-05	0.06406
565501.27	4207312.39	0.28611	0.02166	0.00001	1.13164E-05	0.02167
565516.44	4207325.23	0.28943	0.02191	0.00001	1.13164E-05	0.02192
565543.29	4207324.07	0.24693	0.01869	0.00001	1.13164E-05	0.01870
565372.87	4207269.21	0.34369	0.02602	0.00001	1.13164E-05	0.02603
565474.42	4207265.7	0.23106	0.01749	0.00001	1.13164E-05	0.01750
565222.3	4207670.73	1.09623	0.08299	0.00014	1.58429E-04	0.08315
565184.95	4207657.89	1.02905	0.07790	0.00014	1.58429E-04	0.07806
565236.31	4207708.08	0.9166	0.06939	0.00010	1.13164E-04	0.06950
565370.54	4207706.91	0.73374	0.05555	0.00004	4.52654E-05	0.05559
565399.72	4207696.41	0.66359	0.05024	0.00004	4.52654E-05	0.05028
565428.9	4207688.24	0.5875	0.04448	0.00003	3.39491E-05	0.04451
565151.1	4207652.05	0.92822	0.07027	0.00015	1.69745E-04	0.07044
565105.58	4207646.22	0.77058	0.05833	0.00016	1.81062E-04	0.05852
564896.65	4207642.72	0.28986	0.02194	0.00013	1.47113E-04	0.02209
564876.8	4207628.71	0.28873	0.02186	0.00015	1.69745E-04	0.02203
564858.13	4207614.7	0.2831	0.02143	0.00018	2.03694E-04	0.02164
564838.29	4207611.2	0.26605	0.02014	0.00018	2.03694E-04	0.02034
564807.94	4207600.7	0.24651	0.01866	0.00022	2.48960E-04	0.01891
564777.59	4207600.7	0.22472	0.01701	0.00024	2.71592E-04	0.01728
564749.58	4207603.03	0.20539	0.01555	0.00024	2.71592E-04	0.01582
564726.23	4207605.37	0.19265	0.01458	0.00024	2.71592E-04	0.01486
564701.72	4207615.87	0.17649	0.01336	0.00022	2.48960E-04	0.01361
564681.88	4207624.04	0.16513	0.01250	0.00021	2.37643E-04	0.01274
564649.2	4207633.38	0.15056	0.01140	0.00020	2.26327E-04	0.01162
564630.52	4207640.38	0.14197	0.01075	0.00019	2.15011E-04	0.01096
564609.51	4207650.89	0.13243	0.01003	0.00017	1.92378E-04	0.01022
564589.67	4207655.56	0.12631	0.00956	0.00017	1.92378E-04	0.00975
564563.99	4207668.4	0.11698	0.00886	0.00015	1.69745E-04	0.00903
564538.31	4207678.9	0.10917	0.00826	0.00013	1.47113E-04	0.00841
564517.3	4207687.07	0.10333	0.00782	0.00012	1.35796E-04	0.00796
CONCUNIT ug/	m^3	0	0.00000	0.00000	0.00000E+00	0.00000
DEPUNIT g/m^	2	0	0.00000	0.00000	0.00000E+00	0.00000

Willow Ave Service Commercial

Cancer Risk Impacts from Construction at the Maximum Impacted Sensitive Receptor - Infant

Cancer Potency Factor:	1.1	$(mg/kg\text{-}day)^{-1}$
Exposure Frequency	270	days/year
Averaging Period	25550	days

Year	Unit DPM Concentration (ug/m3)	Age Sensitivty Factor	Daily Breathing Rate (L/kg-day)	Time At Home Factor	Exposure Frequency (days/year)	Exposure Duration (years)	Unit Risk Factor $(ug/m3)^{-1}$
3rd Trimester	1	10	361	0.85	98	0.25	3.2
1	1	10	1090	0.85	98	1	39.1
2	1	10	1090	0.85	273	1	108.9

BAAQMD 2016. Air Toxics NSR Program Health Risk Assessment (HRA) Guidelines

Willow Ave Service Commercial **No Mitigation** **at Sensitive Recptors**

Estimated Cancer Risks from Construction DPM - Infant Receptors

X (m)	Y (m)	InfantCancer Risk (3rd Trimester) 2018 (/million)	Infant Cancer Risk (year 1) 2018 (/million)	Infant Cancer Risk (year 2) 2019 (/million)	Total Cancer Risk (/million)
565075.43	4207459.29	1.385	16.724	30.514	48.62236
565374.04	4207297.22	0.165	1.997	3.645	5.80699
565350.7	4207277.38	0.151	1.823	3.327	5.30044
565325.02	4207271.54	0.177	2.137	3.899	6.21252
565305.17	4207270.37	0.199	2.399	4.378	6.97549
565273.66	4207262.2	0.234	2.824	5.152	8.20941
565254.98	4207254.03	0.251	3.032	5.533	8.81685
565231.64	4207249.36	0.283	3.420	6.241	9.94476
565212.96	4207236.52	0.284	3.435	6.267	9.98640
565183.78	4207233.02	0.317	3.823	6.976	11.11537
565501.27	4207312.39	0.107	1.293	2.360	3.75978
565516.44	4207325.23	0.108	1.308	2.387	3.80339
565543.29	4207324.07	0.092	1.116	2.037	3.24508
565372.87	4207269.21	0.129	1.553	2.834	4.51618
565474.42	4207265.7	0.086	1.044	1.906	3.03661
565222.3	4207670.73	0.410	4.954	9.054	14.41837
565184.95	4207657.89	0.385	4.650	8.500	13.53585
565236.31	4207708.08	0.343	4.142	7.568	12.05360
565370.54	4207706.91	0.275	3.316	6.054	9.64390
565399.72	4207696.41	0.248	2.999	5.475	8.72236
565428.9	4207688.24	0.220	2.655	4.847	7.72154
565151.1	4207652.05	0.347	4.195	7.670	12.21254
565105.58	4207646.22	0.288	3.482	6.372	10.14294
564896.65	4207642.72	0.108	1.310	2.406	3.82413
564876.8	4207628.71	0.108	1.305	2.399	3.81180
564858.13	4207614.7	0.106	1.280	2.356	3.74161
564838.29	4207611.2	0.100	1.203	2.215	3.51763
564807.94	4207600.7	0.092	1.114	2.059	3.26597
564777.59	4207600.7	0.084	1.016	1.882	2.98224
564749.58	4207603.03	0.077	0.929	1.723	2.72831
564726.23	4207605.37	0.072	0.871	1.618	2.56095
564701.72	4207615.87	0.066	0.798	1.482	2.34615
564681.88	4207624.04	0.062	0.747	1.387	2.19566
564649.2	4207633.38	0.056	0.681	1.266	2.00300
564630.52	4207640.38	0.053	0.642	1.194	1.88890
564609.51	4207650.89	0.050	0.599	1.113	1.76106
564589.67	4207655.56	0.047	0.571	1.062	1.68066
564563.99	4207668.4	0.044	0.529	0.983	1.55558
564538.31	4207678.9	0.041	0.494	0.916	1.45047
564517.3	4207687.07	0.039	0.467	0.867	1.37250
CONCUNIT ug	m^3	0.000	0.000	0.000	0.00000
DEPUNIT g/m	2	0.000	0.000	0.000	0.00000

Maximum Caner Risk
48.6
BAAQMD threshold of significance
10
Exceed thresholds?
yes

Willow Ave Service Commercial

No Mitigation

Cancer Risk Impacts from Construction at the Maximum Impacted Sensitive Receptor - Child
UTM: (565046,4185977)

Cancer Potency Factor:	1.1	$(mg/kg\text{-}day)^{-1}$
Exposure Frequency	350	days/year
Averaging Period	25550	days

Year	DPM Concentration (ug/m3)	Age Sensitivty Factor	Daily Breathing Rate (L/kg-day)	Time At Home Factor	Exposure Duration (years)	Unit Risk Factor $(ug/m3)^{-1}$
1	1	3	572	0.73	1	18.9
2	1	3	572	0.73	1	18.9

BAAQMD 2016. Air Toxics NSR Program Health Risk Assessment (HRA) Guidelines

Willow Ave Service Commercial

No Mitigation **at Sensitive Receptors**

Estimated Cancer Risks from Construction DPM

X (m)	Y (m)	Child Cancer Risk (year 1) 2017 (/million)	Child Cancer Risk (year 2) 2017 (/million)	Total Cancer Risk (/million)
565075.43	4207459.29	8.076	5.289	13.36485
565374.04	4207297.22	0.964	0.632	1.59611
565350.7	4207277.38	0.880	0.577	1.45687
565325.02	4207271.54	1.032	0.676	1.70758
565305.17	4207270.37	1.158	0.759	1.91730
565273.66	4207262.2	1.363	0.893	2.25649
565254.98	4207254.03	1.464	0.959	2.42346
565231.64	4207249.36	1.652	1.082	2.73350
565212.96	4207236.52	1.659	1.086	2.74495
565183.78	4207233.02	1.846	1.209	3.05528
565501.27	4207312.39	0.624	0.409	1.03337
565516.44	4207325.23	0.632	0.414	1.04536
565543.29	4207324.07	0.539	0.353	0.89189
565372.87	4207269.21	0.750	0.491	1.24129
565474.42	4207265.7	0.504	0.330	0.83458
565222.3	4207670.73	2.392	1.569	3.96163
565184.95	4207657.89	2.246	1.473	3.71905
565236.31	4207708.08	2.000	1.312	3.31209
565370.54	4207706.91	1.601	1.049	2.65043
565399.72	4207696.41	1.448	0.949	2.39712
565428.9	4207688.24	1.282	0.840	2.12214
565151.1	4207652.05	2.026	1.330	3.35517
565105.58	4207646.22	1.682	1.105	2.78616
564896.65	4207642.72	0.633	0.417	1.04961
564876.8	4207628.71	0.630	0.416	1.04598
564858.13	4207614.7	0.618	0.408	1.02632
564838.29	4207611.2	0.581	0.384	0.96475
564807.94	4207600.7	0.538	0.357	0.89509
564777.59	4207600.7	0.491	0.326	0.81686
564749.58	4207603.03	0.448	0.299	0.74706
564726.23	4207605.37	0.421	0.280	0.70106
564701.72	4207615.87	0.385	0.257	0.64225
564681.88	4207624.04	0.361	0.240	0.60101
564649.2	4207633.38	0.329	0.219	0.54817
564630.52	4207640.38	0.310	0.207	0.51693
564609.51	4207650.89	0.289	0.193	0.48203
564589.67	4207655.56	0.276	0.184	0.45993
564563.99	4207668.4	0.255	0.170	0.42579
564538.31	4207678.9	0.238	0.159	0.39714
564517.3	4207687.07	0.226	0.150	0.37582
CONCUNIT ug	m^3	0.000	0.000	0.00000
DEPUNIT g/m	2	0.000	0.000	0.00000

Maximum Caner Risk
13.4
BAAQMD threshold of significance
10
Exceed thresholds?
yes

Willow Ave Service Commercial

No Mitigation

Cancer Risk Impacts from Construction at the Maximum Impacted Sensitive Receptor - Adult

Cancer Potency Factor:	1.1	$(mg/kg\text{-}day)^{-1}$
Exposure Frequency	350	days/year
Averaging Period	25550	days

Year	DPM Concentration (ug/m3)	Age Sensitivty Factor	Daily Breathing Rate (L/kg-day)	Time At Home Factor	Exposure Duration (years)	Unit Risk Factor $(ug/m3)^{-1}$
1	1	1	261	0.72	1	2.8
2	1	1	261	0.72	1	2.8

BAAQMD 2016. Air Toxics NSR Program Health Risk Assessment (HRA) Guidelines

Willow Ave Service Commercial

No Mitigation **at Sensitive Receptors**

Estimated Cancer Risks from Construction DPM

X (m)	Y (m)	Adult Cancer Risk (year 1) 2018 (/million)	Adult Cancer Risk (year 2) 2019 (/million)	Total Cancer Risk (/million)
565075.43	4207459.29	1.211	0.793	2.00492
565374.04	4207297.22	0.145	0.095	0.23944
565350.7	4207277.38	0.132	0.087	0.21855
565325.02	4207271.54	0.155	0.101	0.25616
565305.17	4207270.37	0.174	0.114	0.28762
565273.66	4207262.2	0.205	0.134	0.33851
565254.98	4207254.03	0.220	0.144	0.36355
565231.64	4207249.36	0.248	0.162	0.41006
565212.96	4207236.52	0.249	0.163	0.41178
565183.78	4207233.02	0.277	0.181	0.45834
565501.27	4207312.39	0.094	0.061	0.15502
565516.44	4207325.23	0.095	0.062	0.15682
565543.29	4207324.07	0.081	0.053	0.13380
565372.87	4207269.21	0.113	0.074	0.18621
565474.42	4207265.7	0.076	0.050	0.12520
565222.3	4207670.73	0.359	0.235	0.59430
565184.95	4207657.89	0.337	0.221	0.55791
565236.31	4207708.08	0.300	0.197	0.49686
565370.54	4207706.91	0.240	0.157	0.39760
565399.72	4207696.41	0.217	0.142	0.35960
565428.9	4207688.24	0.192	0.126	0.31835
565151.1	4207652.05	0.304	0.199	0.50332
565105.58	4207646.22	0.252	0.166	0.41796
564896.65	4207642.72	0.095	0.063	0.15746
564876.8	4207628.71	0.095	0.062	0.15691
564858.13	4207614.7	0.093	0.061	0.15396
564838.29	4207611.2	0.087	0.058	0.14473
564807.94	4207600.7	0.081	0.054	0.13428
564777.59	4207600.7	0.074	0.049	0.12254
564749.58	4207603.03	0.067	0.045	0.11207
564726.23	4207605.37	0.063	0.042	0.10517
564701.72	4207615.87	0.058	0.039	0.09635
564681.88	4207624.04	0.054	0.036	0.09016
564649.2	4207633.38	0.049	0.033	0.08223
564630.52	4207640.38	0.047	0.031	0.07755
564609.51	4207650.89	0.043	0.029	0.07231
564589.67	4207655.56	0.041	0.028	0.06900
564563.99	4207668.4	0.038	0.026	0.06387
564538.31	4207678.9	0.036	0.024	0.05958
564517.3	4207687.07	0.034	0.023	0.05638
CONCUNIT ug	m^3	0.000	0.000	0.00000
DEPUNIT g/m	2	0.000	0.000	0.00000

Maximum Caner Risk
2.0
BAAQMD threshold of significance
10
Exceed thresholds?
No

Willow Ave Service Commercial

No Mitigation
at Sensitive Receptors

Chronic Non-Cancer Hazard Index

Reference Exposure Level (REL) for DPM: 5 ug/m3

CNCHI = DPM/REL

X (m)	Y (m)	2018 DPM (ug/m3)	2019 DPM (ug/m3)	Max DPM (ug/m3)	CNCHI
565075.43	4207459.29	0.427822	0.280212	0.427822	0.08556
565374.04	4207297.22	0.05109	0.033468	0.05109	0.01022
565350.7	4207277.38	0.046632	0.030549	0.046632	0.00933
565325.02	4207271.54	0.054658	0.035805	0.054658	0.01093
565305.17	4207270.37	0.061372	0.040202	0.061372	0.01227
565273.66	4207262.2	0.07223	0.047312	0.07223	0.01445
565254.98	4207254.03	0.077576	0.050813	0.077576	0.01552
565231.64	4207249.36	0.087501	0.057313	0.087501	0.01750
565212.96	4207236.52	0.087867	0.057553	0.087867	0.01757
565183.78	4207233.02	0.097802	0.064058	0.097802	0.01956
565501.27	4207312.39	0.033075	0.02167	0.033075	0.00661
565516.44	4207325.23	0.033458	0.021922	0.033458	0.00669
565543.29	4207324.07	0.028545	0.018704	0.028545	0.00571
565372.87	4207269.21	0.039731	0.026029	0.039731	0.00795
565474.42	4207265.7	0.026711	0.017503	0.026711	0.00534
565222.3	4207670.73	0.126731	0.083146	0.126731	0.02535
565184.95	4207657.89	0.118965	0.07806	0.118965	0.02379
565236.31	4207708.08	0.105964	0.069502	0.105964	0.02119
565370.54	4207706.91	0.084822	0.055591	0.084822	0.01696
565399.72	4207696.41	0.076713	0.050281	0.076713	0.01534
565428.9	4207688.24	0.067916	0.044509	0.067916	0.01358
565151.1	4207652.05	0.10731	0.070438	0.10731	0.02146
565105.58	4207646.22	0.089088	0.058516	0.089088	0.01782
564896.65	4207642.72	0.033515	0.02209	0.033515	0.00670
564876.8	4207628.71	0.033386	0.022027	0.033386	0.00668
564858.13	4207614.7	0.032737	0.021635	0.032737	0.00655
564838.29	4207611.2	0.030766	0.020344	0.030766	0.00615
564807.94	4207600.7	0.028509	0.01891	0.028509	0.00570
564777.59	4207600.7	0.025992	0.017283	0.025992	0.00520
564749.58	4207603.03	0.023757	0.01582	0.023757	0.00475
564726.23	4207605.37	0.022284	0.014856	0.022284	0.00446
564701.72	4207615.87	0.020415	0.01361	0.020415	0.00408
564681.88	4207624.04	0.019101	0.012738	0.019101	0.00382
564649.2	4207633.38	0.017416	0.011624	0.017416	0.00348
564630.52	4207640.38	0.016423	0.010962	0.016423	0.00328
564609.51	4207650.89	0.015319	0.010218	0.015319	0.00306
564589.67	4207655.56	0.014611	0.009754	0.014611	0.00292
564563.99	4207668.4	0.013532	0.009025	0.013532	0.00271
564538.31	4207678.9	0.012628	0.008412	0.012628	0.00253
564517.3	4207687.07	0.011952	0.007958	0.011952	0.00239
CONCUNIT ug/ m^3		0	0	0	0.00000
DEPUNIT g/m^	2	0	0	0	0.00000

Maximum Caner Risk
0.09

BAAQMD threshold of significance
1

Exceed thresholds?
No

Willow Ave Service Commercial

No Mitigation
at Sensitive Receptors

Annual Average PM2.5 (Exhaust + Fugitive Dust)

X (m)	Y (m)	2018 PM2.5 (ug/m3)	2019 PM2.5 (ug/m3)	Max PM2.5 (ug/m3)
565075.43	4207459.29	0.427822	0.280212	0.42782
565374.04	4207297.22	0.05109	0.033468	0.05109
565350.7	4207277.38	0.046632	0.030549	0.04663
565325.02	4207271.54	0.054658	0.035805	0.05466
565305.17	4207270.37	0.061372	0.040202	0.06137
565273.66	4207262.2	0.07223	0.047312	0.07223
565254.98	4207254.03	0.077576	0.050813	0.07758
565231.64	4207249.36	0.087501	0.057313	0.08750
565212.96	4207236.52	0.087867	0.057553	0.08787
565183.78	4207233.02	0.097802	0.064058	0.09780
565501.27	4207312.39	0.033075	0.02167	0.03307
565516.44	4207325.23	0.033458	0.021922	0.03346
565543.29	4207324.07	0.028545	0.018704	0.02855
565372.87	4207269.21	0.039731	0.026029	0.03973
565474.42	4207265.7	0.026711	0.017503	0.02671
565222.3	4207670.73	0.126731	0.083146	0.12673
565184.95	4207657.89	0.118965	0.07806	0.11897
565236.31	4207708.08	0.105964	0.069502	0.10596
565370.54	4207706.91	0.084822	0.055591	0.08482
565399.72	4207696.41	0.076713	0.050281	0.07671
565428.9	4207688.24	0.067916	0.044509	0.06792
565151.1	4207652.05	0.10731	0.070438	0.10731
565105.58	4207646.22	0.089088	0.058516	0.08909
564896.65	4207642.72	0.033515	0.02209	0.03352
564876.8	4207628.71	0.033386	0.022027	0.03339
564858.13	4207614.7	0.032737	0.021635	0.03274
564838.29	4207611.2	0.030766	0.020344	0.03077
564807.94	4207600.7	0.028509	0.01891	0.02851
564777.59	4207600.7	0.025992	0.017283	0.02599
564749.58	4207603.03	0.023757	0.01582	0.02376
564726.23	4207605.37	0.022284	0.014856	0.02228
564701.72	4207615.87	0.020415	0.01361	0.02042
564681.88	4207624.04	0.019101	0.012738	0.01910
564649.2	4207633.38	0.017416	0.011624	0.01742
564630.52	4207640.38	0.016423	0.010962	0.01642
564609.51	4207650.89	0.015319	0.010218	0.01532
564589.67	4207655.56	0.014611	0.009754	0.01461
564563.99	4207668.4	0.013532	0.009025	0.01353
564538.31	4207678.9	0.012628	0.008412	0.01263
564517.3	4207687.07	0.011952	0.007958	0.01195
CONCUNIT ug/	m^3	0	0	0.00000
DEPUNIT g/m^	2	0	0	0.00000

Maximum Caner Risk
0.4
BAAQMD threshold of significance
0.3
Exceed thresholds?
yes

Infants

X (m)	Y (m)	Storage facility Total Cancer Risk (/million)	Service Commercial Total Cancer Risk (/million)	Total cancer risks (/million)
565075.4	4207459	16.28	48.62	64.90
565374	4207297	11.53	5.81	17.33
565350.7	4207277	10.88	5.30	16.18
565325	4207272	11.09	6.21	17.30
565305.2	4207270	11.20	6.98	18.18
565273.7	4207262	10.33	8.21	18.54
565255	4207254	9.37	8.82	18.19
565231.6	4207249	8.36	9.94	18.31
565213	4207237	7.15	9.99	17.14
565183.8	4207233	5.97	11.12	17.08
565501.3	4207312	4.50	3.76	8.26
565516.4	4207325	4.48	3.80	8.28
565543.3	4207324	3.65	3.24	6.90
565372.9	4207269	9.51	4.52	14.03
565474.4	4207266	4.33	3.04	7.36
565222.3	4207671	11.99	14.42	26.40
565185	4207658	8.56	13.53	22.10
565236.3	4207708	10.87	12.05	22.92
565370.5	4207707	20.86	9.64	30.50
565399.7	4207696	22.85	8.72	31.58
565428.9	4207688	23.71	7.72	31.43
565151.1	4207652	7.15	12.21	19.36
565105.6	4207646	6.99	10.14	17.13
564896.7	4207643	3.76	3.82	7.58
564876.8	4207629	3.75	3.81	7.56
564858.1	4207615	3.75	3.74	7.49
564838.3	4207611	3.57	3.51	7.08
564807.9	4207601	3.39	3.26	6.65
564777.6	4207601	3.14	2.98	6.12
564749.6	4207603	2.90	2.72	5.63
564726.2	4207605	2.74	2.56	5.29
564701.7	4207616	2.52	2.34	4.86
564681.9	4207624	2.36	2.19	4.55
564649.2	4207633	2.16	2.00	4.16
564630.5	4207640	2.04	1.89	3.93
564609.5	4207651	1.91	1.76	3.66
564589.7	4207656	1.82	1.68	3.50
564564	4207668	1.69	1.55	3.24
564538.3	4207679	1.57	1.45	3.02
564517.3	4207687	1.49	1.37	2.86
ONCUNIT u	m^3	0.00	0.00	0.00
EPUNIT g/m	2	0.00	0.00	0.00

Maximum Caner Risk

64.9

BAAQMD threshold of significance

10

Exceed thresholds?

yes

Child

X (m)	Y (m)	Service commercial Total Cancer Risk (/million)	Storage facility Total Cancer Risk (/million)	Total Cancer Risk (/million_
565075.4	4207459	13.36	3.96	17.33
565374	4207297	1.60	2.81	4.40
565350.7	4207277	1.46	2.65	4.11
565325	4207272	1.71	2.70	4.41
565305.2	4207270	1.92	2.73	4.65
565273.7	4207262	2.26	2.52	4.77
565255	4207254	2.42	2.28	4.71
565231.6	4207249	2.73	2.04	4.77
565213	4207237	2.74	1.74	4.49
565183.8	4207233	3.06	1.45	4.51
565501.3	4207312	1.03	1.10	2.13
565516.4	4207325	1.05	1.09	2.14
565543.3	4207324	0.89	0.89	1.78
565372.9	4207269	1.24	2.32	3.56
565474.4	4207266	0.83	1.05	1.89
565222.3	4207671	3.96	2.92	6.88
565185	4207658	3.72	2.08	5.80
565236.3	4207708	3.31	2.65	5.96
565370.5	4207707	2.65	5.08	7.73
565399.7	4207696	2.40	5.57	7.96
565428.9	4207688	2.12	5.77	7.90
565151.1	4207652	3.35	1.74	5.09
565105.6	4207646	2.79	1.70	4.48
564896.7	4207643	1.05	0.91	1.96
564876.8	4207629	1.05	0.91	1.96
564858.1	4207615	1.03	0.91	1.93
564838.3	4207611	0.96	0.87	1.83
564807.9	4207601	0.89	0.82	1.72
564777.6	4207601	0.82	0.76	1.58
564749.6	4207603	0.75	0.70	1.45
564726.2	4207605	0.70	0.66	1.36
564701.7	4207616	0.64	0.61	1.25
564681.9	4207624	0.60	0.57	1.17
564649.2	4207633	0.55	0.52	1.07
564630.5	4207640	0.52	0.49	1.01
564609.5	4207651	0.48	0.46	0.94
564589.7	4207656	0.46	0.44	0.90
564564	4207668	0.43	0.41	0.83
564538.3	4207679	0.40	0.38	0.78
564517.3	4207687	0.38	0.36	0.74
ONCUNIT u	m^3	0.00	0.00	
EPUNIT g/n	2	0.00	0.00	
0	0	0.00	0.00	
0	0	0.00	0.00	

Maximum Caner Risk
17
BAAQMD threshold of significance
10
Exceed thresholds?
yes

Adults

		Storage Facility	Service Commercial		
X (m)	Y (m)	Total Cancer Risk (/million)	Total Cancer Risk (/million)	Total Adults (/million)	Maximum Caner Risk
					2.6
					BAAQMD threshold of significance
565075.43	4207459.29	0.595	2.005	2.600	10
565374.04	4207297.22	0.421	0.239	0.661	Exceed thresholds?
565350.7	4207277.38	0.398	0.219	0.616	No
565325.02	4207271.54	0.405	0.256	0.661	
565305.17	4207270.37	0.409	0.288	0.697	
565273.66	4207262.2	0.378	0.339	0.716	
565254.98	4207254.03	0.342	0.364	0.706	
565231.64	4207249.36	0.306	0.410	0.716	
565212.96	4207236.52	0.261	0.412	0.673	
565183.78	4207233.02	0.218	0.458	0.676	
565501.27	4207312.39	0.165	0.155	0.320	
565516.44	4207325.23	0.164	0.157	0.321	
565543.29	4207324.07	0.134	0.134	0.267	
565372.87	4207269.21	0.348	0.186	0.534	
565474.42	4207265.7	0.158	0.125	0.283	
565222.3	4207670.73	0.438	0.594	1.032	
565184.95	4207657.89	0.312	0.558	0.870	
565236.31	4207708.08	0.397	0.497	0.894	
565370.54	4207706.91	0.762	0.398	1.160	
565399.72	4207696.41	0.835	0.360	1.195	
565428.9	4207688.24	0.866	0.318	1.185	
565151.1	4207652.05	0.261	0.503	0.764	
565105.58	4207646.22	0.255	0.418	0.673	
564896.65	4207642.72	0.137	0.157	0.294	
564876.8	4207628.71	0.137	0.157	0.294	
564858.13	4207614.7	0.136	0.154	0.290	
564838.29	4207611.2	0.130	0.145	0.274	
564807.94	4207600.7	0.123	0.134	0.257	
564777.59	4207600.7	0.114	0.122	0.236	
564749.58	4207603.03	0.105	0.112	0.217	
564726.23	4207605.37	0.099	0.105	0.204	
564701.72	4207615.87	0.091	0.096	0.188	
564681.88	4207624.04	0.086	0.090	0.176	
564649.2	4207633.38	0.078	0.082	0.161	
564630.52	4207640.38	0.074	0.077	0.152	
564609.51	4207650.89	0.069	0.072	0.141	
564589.67	4207655.56	0.066	0.069	0.135	
564563.99	4207668.4	0.061	0.064	0.125	
564538.31	4207678.9	0.057	0.060	0.117	
564517.3	4207687.07	0.054	0.056	0.110	
CONCUNIT ug/	m^3	0.000	0.000	0.000	
DEPUNIT g/m^	2	0.000	0.000		

Willow Ave Storage Facility

No Mitigation
at Sensitive Receptors

Chronic Non-Cancer Hazard Index

Reference Exposure Level (REL) for DPM: 5 ug/m3

CNCHI = DPM/REL

Maximum Chronic Hazard
0.11
BAAQMD threshold of significance
1
Exceed thresholds?
No

		Self-storage		**Service Commercial**			
X (m)	**Y (m)**	**2018 DPM (ug/m3)**	**2019 DPM (ug/m3)**	**2018 DPM (ug/m3)**	**2019 DPM (ug/m3)**	**Max**	Chronic
565075.43	4207459.29	0.124228	0.085778	0.43	0.28	0.55	0.110
565374.04	4207297.22	0.08802	0.060744	0.05	0.03	0.14	0.028
565350.7	4207277.38	0.083105	0.057353	0.05	0.03	0.13	0.026
565325.02	4207271.54	0.084645	0.058416	0.05	0.04	0.14	0.028
565305.17	4207270.37	0.085536	0.059031	0.06	0.04	0.15	0.029
565273.66	4207262.2	0.078879	0.054438	0.07	0.05	0.15	0.030
565254.98	4207254.03	0.071543	0.049377	0.08	0.05	0.15	0.030
565231.64	4207249.36	0.063837	0.04406	0.09	0.06	0.15	0.030
565212.96	4207236.52	0.054604	0.03769	0.09	0.06	0.14	0.028
565183.78	4207233.02	0.045573	0.031459	0.10	0.06	0.14	0.029
565501.27	4207312.39	0.034367	0.023728	0.03	0.02	0.07	0.013
565516.44	4207325.23	0.034209	0.023619	0.03	0.02	0.07	0.014
565543.29	4207324.07	0.027896	0.019263	0.03	0.02	0.06	0.011
565372.87	4207269.21	0.07261	0.050112	0.04	0.03	0.11	0.022
565474.42	4207265.7	0.033031	0.022806	0.03	0.02	0.06	0.012
565222.3	4207670.73	0.091307	0.06324	0.13	0.08	0.22	0.044
565184.95	4207657.89	0.065152	0.045194	0.12	0.08	0.18	0.037
565236.31	4207708.08	0.082848	0.057333	0.11	0.07	0.19	0.038
565370.54	4207706.91	0.159251	0.10994	0.08	0.06	0.24	0.049
565399.72	4207696.41	0.174472	0.120442	0.08	0.05	0.25	0.050
565428.9	4207688.24	0.180997	0.124926	0.07	0.04	0.25	0.050
565151.1	4207652.05	0.054323	0.037741	0.11	0.07	0.16	0.032
565105.58	4207646.22	0.053106	0.036919	0.09	0.06	0.14	0.028
564896.65	4207642.72	0.028466	0.019867	0.03	0.02	0.06	0.012
564876.8	4207628.71	0.028416	0.019867	0.03	0.02	0.06	0.012
564858.13	4207614.7	0.028306	0.019844	0.03	0.02	0.06	0.012
564838.29	4207611.2	0.026946	0.018906	0.03	0.02	0.06	0.012
564807.94	4207600.7	0.02553	0.017999	0.03	0.02	0.05	0.011
564777.59	4207600.7	0.023568	0.01668	0.03	0.02	0.05	0.010
564749.58	4207603.03	0.021747	0.015424	0.02	0.02	0.05	0.009
564726.23	4207605.37	0.020498	0.014562	0.02	0.01	0.04	0.009
564701.72	4207615.87	0.018844	0.013386	0.02	0.01	0.04	0.008
564681.88	4207624.04	0.017671	0.012559	0.02	0.01	0.04	0.007
564649.2	4207633.38	0.016172	0.011507	0.02	0.01	0.03	0.007
564630.52	4207640.38	0.015281	0.010875	0.02	0.01	0.03	0.006
564609.51	4207650.89	0.014271	0.010144	0.02	0.01	0.03	0.006
564589.67	4207655.56	0.013638	0.009707	0.01	0.01	0.03	0.006
564563.99	4207668.4	0.012635	0.00898	0.01	0.01	0.03	0.005
564538.31	4207678.9	0.011804	0.008371	0.01	0.01	0.02	0.005
564517.3	4207687.07	0.011183	0.007925				
CONCUNIT ug/ m^3		0	0				
DEPUNIT g/m^	2	0	0				

		Self-storage		Commercial Service		Total		
		2018	2019	2018	2019	2018	2019	**Maximum PM2.5**
X	Y	DPM	DPM	PM2.5	PM2.5	PM2.5	PM2.5	0.6
(m)	(m)	(ug/m3)	(ug/m3)	(ug/m3)	(ug/m3)	(ug/m3)	(ug/m3)	**BAAQMD threshold of significance**
								0.3
565075.43	4207459.29	0.12	0.09	0.43	0.28	0.55	0.37	**Exceed thresholds?**
565374.04	4207297.22	0.09	0.06	0.05	0.03	0.14	0.09	Yes
565350.7	4207277.38	0.08	0.06	0.05	0.03	0.13	0.09	
565325.02	4207271.54	0.08	0.06	0.05	0.04	0.14	0.09	
565305.17	4207270.37	0.09	0.06	0.06	0.04	0.15	0.10	
565273.66	4207262.2	0.08	0.05	0.07	0.05	0.15	0.10	
565254.98	4207254.03	0.07	0.05	0.08	0.05	0.15	0.10	
565231.64	4207249.36	0.06	0.04	0.09	0.06	0.15	0.10	
565212.96	4207236.52	0.05	0.04	0.09	0.06	0.14	0.10	
565183.78	4207233.02	0.05	0.03	0.10	0.06	0.14	0.10	
565501.27	4207312.39	0.03	0.02	0.03	0.02	0.07	0.05	
565516.44	4207325.23	0.03	0.02	0.03	0.02	0.07	0.05	
565543.29	4207324.07	0.03	0.02	0.03	0.02	0.06	0.04	
565372.87	4207269.21	0.07	0.05	0.04	0.03	0.11	0.08	
565474.42	4207265.7	0.03	0.02	0.03	0.02	0.06	0.04	
565222.3	4207670.73	0.09	0.06	0.13	0.08	0.22	0.15	
565184.95	4207657.89	0.07	0.05	0.12	0.08	0.18	0.12	
565236.31	4207708.08	0.08	0.06	0.11	0.07	0.19	0.13	
565370.54	4207706.91	0.16	0.11	0.08	0.06	0.24	0.17	
565399.72	4207696.41	0.17	0.12	0.08	0.05	0.25	0.17	
565428.9	4207688.24	0.18	0.12	0.07	0.04	0.25	0.17	
565151.1	4207652.05	0.05	0.04	0.11	0.07	0.16	0.11	
565105.58	4207646.22	0.05	0.04	0.09	0.06	0.14	0.10	
564896.65	4207642.72	0.03	0.02	0.03	0.02	0.06	0.04	
564876.8	4207628.71	0.03	0.02	0.03	0.02	0.06	0.04	
564858.13	4207614.7	0.03	0.02	0.03	0.02	0.06	0.04	
564838.29	4207611.2	0.03	0.02	0.03	0.02	0.06	0.04	
564807.94	4207600.7	0.03	0.02	0.03	0.02	0.05	0.04	
564777.59	4207600.7	0.02	0.02	0.03	0.02	0.05	0.03	
564749.58	4207603.03	0.02	0.02	0.02	0.02	0.05	0.03	
564726.23	4207605.37	0.02	0.01	0.02	0.01	0.04	0.03	
564701.72	4207615.87	0.02	0.01	0.02	0.01	0.04	0.03	
564681.88	4207624.04	0.02	0.01	0.02	0.01	0.04	0.03	
564649.2	4207633.38	0.02	0.01	0.02	0.01	0.03	0.02	
564630.52	4207640.38	0.02	0.01	0.02	0.01	0.03	0.02	
564609.51	4207650.89	0.01	0.01	0.02	0.01	0.03	0.02	
564589.67	4207655.56	0.01	0.01	0.01	0.01	0.03	0.02	
564563.99	4207668.4	0.01	0.01	0.01	0.01	0.03	0.02	
564538.31	4207678.9	0.01	0.01	0.01	0.01	0.02	0.02	

Willow Ave Storage Facility

Tier IV Mitigation

Construction Annual DPM Emissions (as PM2.5 Exhaust)

Construction Scheduling	**2018**	
	13.6	hours/day
	7	days/week
	14	weeks/year
	1332.8	hours/year

Onsite Construction Area Source Size (m2): 22439 from AERMOD

Onsite Construction PM2.5 Emissions

2018	**Construction Activity**	**Onsite Annual DPM Exhaust Emissions (tons/year)**	**Onsite Annual DPM Exhaust Emissions (g/sec)**	**Onsite DPM Source Exhaust Emissions (g/m2-sec)**
	Site Preparation	2.840E-02	5.374E-03	2.395E-07
	Grading	1.210E-02	2.290E-03	1.020E-07
	Total	**4.050E-02**	**7.664E-03**	**3.416E-07**

Offsite Construction Vehicle PM2.5 Emissions

2018	**Construction Activity**	**Offsite Hauling Annual DPM Exhaust Emissions (tons/year)**	**Offsite Vendor Annual DPM Exhaust Emissions (tons/year)**	**Offsite Workers Annual DPM Exhaust Emissions (tons/year)**	
	Site Preparation	0.000E+00	0.000E+00	3.000E-05	
	Grading	0.000E+00	0.000E+00	1.000E-05	
	Total (tons/year)	**0.000E+00**	**0.000E+00**	**4.000E-05**	**4.000E-05**
	Trip Distance assumed in CalEEMod (mi)	20.0	7.3	10.8	
	Offsite Project Trip Distance Along Roadway Segment Project>Willow Ave>John Muir Pkwy (mi)	0.60	0.60	0.60	
	Offsite Project Emissions Along Roadway Segment Project>Willow Ave>John Muir Pkwy (tons/year)	**0.000E+00**	**0.000E+00**	**2.239E-06**	

Offsite Emissions Along Roadway Segment Analyzed	
Total Offsite Project Exhaust Emissions (tons/year)	**2.239E-06**
Total Offsite Project Exhaust Emissions (grams/sec)	**4.237E-07**

Onsite Exhaust Emissions (tons/year)	**4.050E-02**
Total Onsite Emissions (tons/year)	**4.050E-02**
Onsite Exhaust Emissions (g/m2-sec)	**3.416E-07**

Total PM@2.5 Exhaust (tons/year)	4.050E-02

Willow Ave Storage Facility

Tier IV Mitigation

Construction Annual DPM Emissions (as PM2.5 Exhaust)

Construction Scheduling	**2019**	
	13.6	hours/day
	7	days/week
	46	weeks/year
	4379.2	hours/year

Onsite Construction Area Source Size (m2): 22439.00

Onsite Construction PM2.5 Emissions

2019	**Construction Activity**	**Onsite Annual DPM Exhaust Emissions (tons/year)**	**Onsite Annual DPM Exhaust Emissions (g/sec)**	**Onsite DPM Source Exhaust Emissions (g/m2-sec)**
	Grading	3.400E-02	1.958E-03	8.727E-08
	Building Construction	9.620E-02	5.541E-03	2.469E-07
	Paving	1.570E-02	9.042E-04	4.030E-08
	Architectural Coating	4.330E-03	2.494E-04	1.111E-08
	Total	**1.502E-01**	**8.653E-03**	**3.856E-07**

Offsite Construction Vehicle PM2.5 Emissions

2019	**Construction Activity**	**Offsite Hauling Annual DPM Exhaust Emissions (tons/year)**	**Offsite Vendor Annual DPM Exhaust Emissions (tons/year)**	**Offsite Workers Annual DPM Exhaust Emissions (tons/year)**	
	Grading	0.000E+00	0.000E+00	3.000E-05	
	Building Construction	0.000E+00	3.340E-03	4.800E-04	
	Paving	0.000E+00	0.000E+00	3.000E-05	
	Architectural Coating	0.000E+00	0.000E+00	4.000E-05	
	Total (tons/year)	**0.000E+00**	**3.340E-03**	**5.800E-04**	**3.920E-03**
	Trip Distance assumed in CalEEMod (mi)	20.0	7.3	10.8	
	Offsite Project Trip Distance Project>Willow Ave>John Muir Pkwy (mi)	0.60	0.60	0.60	
	Offsite Project Emissions Project>Willow Ave>John Muir Pkwy (tons/year)	**0.000E+00**	**2.766E-04**	**3.246E-05**	

Emissions Along Roadway Segment	
Offsite Project Exhaust Emissions (tons/year)	**3.090E-04**
Offsite Project Exhaust Emissions (grams/sec)	**1.780E-05**
Offsite Project Fugitive Emissions (tons/year)	**0.000E+00**
Offsite Project Fugitive Emissions (grams/sec)	**0.000E+00**

Onsite Exhaust Emissions (tons/year)	**1.502E-01**
Total Onsite Emissions (tons/year)	**1.502E-01**
Onsite Exhaust Emissions (g/m2-sec)	**3.856E-07**

Total PM@2.5 Exhaust (tons/year)	1.505E-01
Total PM2.5 (tons/year)	**1.505E-01**

Willow Ave Storage Facility

2018 **Tier IV Mitigation** **At Sensitive Receptors**

Construction Annual DPM Emissions (as PM2.5 Exhaust)

Annual Average Onsite DPM Exhaust Emission Rate: 3.41562E-07
Annual Average Offsite DPM Exhaust Emission Rate: 4.23650E-07

X (m)	Y (m)	Onsite Annual DPM Exhaust w/Unit Emissions (ug/m3)	Onsite Annual DPM Exhaust w/Actual Emissions (ug/m3)	Offsite Annual DPM Exhaust w/Unit Emissions (ug/m3)	Offsite Annual DPM Exhaust w/Actual Emissions (ug/m3)	Total DPM (ug/m3)
565075.43	4207459.29	1.56868	0.05358	0.00004	1.69460E-06	0.05358
565374.04	4207297.22	1.11147	0.03796	0.00001	4.23650E-07	0.03796
565350.7	4207277.38	1.04941	0.03584	0.00001	4.23650E-07	0.03584
565325.02	4207271.54	1.06886	0.03651	0.00001	4.23650E-07	0.03651
565305.17	4207270.37	1.08011	0.03689	0.00001	4.23650E-07	0.03689
565273.66	4207262.2	0.99605	0.03402	0.00001	4.23650E-07	0.03402
565254.98	4207254.03	0.90341	0.03086	0.00001	4.23650E-07	0.03086
565231.64	4207249.36	0.8061	0.02753	0.00001	4.23650E-07	0.02753
565212.96	4207236.52	0.68951	0.02355	0.00001	4.23650E-07	0.02355
565183.78	4207233.02	0.57547	0.01966	0.00001	4.23650E-07	0.01966
565501.27	4207312.39	0.43397	0.01482	0.00001	4.23650E-07	0.01482
565516.44	4207325.23	0.43197	0.01475	0.00001	4.23650E-07	0.01475
565543.29	4207324.07	0.35225	0.01203	0.00001	4.23650E-07	0.01203
565372.87	4207269.21	0.91688	0.03132	0.00001	4.23650E-07	0.03132
565474.42	4207265.7	0.41709	0.01425	0.00001	4.23650E-07	0.01425
565222.3	4207670.73	1.15291	0.03938	0.00014	5.93110E-06	0.03938
565184.95	4207657.89	0.82263	0.02810	0.00014	5.93110E-06	0.02810
565236.31	4207708.08	1.04611	0.03573	0.00010	4.23650E-06	0.03574
565370.54	4207706.91	2.01093	0.06869	0.00004	1.69460E-06	0.06869
565399.72	4207696.41	2.20314	0.07525	0.00004	1.69460E-06	0.07525
565428.9	4207688.24	2.28553	0.07807	0.00003	1.27095E-06	0.07807
565151.1	4207652.05	0.68589	0.02343	0.00015	6.35475E-06	0.02343
565105.58	4207646.22	0.67052	0.02290	0.00016	6.77840E-06	0.02291
564896.65	4207642.72	0.35939	0.01228	0.00013	5.50745E-06	0.01228
564876.8	4207628.71	0.35874	0.01225	0.00015	6.35475E-06	0.01226
564858.13	4207614.7	0.35734	0.01221	0.00018	7.62570E-06	0.01221
564838.29	4207611.2	0.34017	0.01162	0.00018	7.62570E-06	0.01163
564807.94	4207600.7	0.32227	0.01101	0.00022	9.32030E-06	0.01102
564777.59	4207600.7	0.29748	0.01016	0.00024	1.01676E-05	0.01017
564749.58	4207603.03	0.27448	0.00938	0.00024	1.01676E-05	0.00939
564726.23	4207605.37	0.25871	0.00884	0.00024	1.01676E-05	0.00885
564701.72	4207615.87	0.23784	0.00812	0.00022	9.32030E-06	0.00813
564681.88	4207624.04	0.22303	0.00762	0.00021	8.89665E-06	0.00763
564649.2	4207633.38	0.2041	0.00697	0.00020	8.47300E-06	0.00698
564630.52	4207640.38	0.19286	0.00659	0.00019	8.04935E-06	0.00660
564609.51	4207650.89	0.18012	0.00615	0.00017	7.20205E-06	0.00616
564589.67	4207655.56	0.17212	0.00588	0.00017	7.20205E-06	0.00589
564563.99	4207668.4	0.15947	0.00545	0.00015	6.35475E-06	0.00545
564538.31	4207678.9	0.14898	0.00509	0.00013	5.50745E-06	0.00509
564517.3	4207687.07	0.14115	0.00482	0.00012	5.08380E-06	0.00483
CONCUNIT ug/	m^3	0	0.00000	0.00000	0.00000E+00	0.00000
DEPUNIT g/m^	2	0	0.00000	0.00000	0.00000E+00	0.00000

Willow Ave Storage Facility

2019 **Tier IV Mitigation** **at Sensitive Receptors**

Construction Annual DPM Emissions (as PM2.5 Exhaust)

Annual Average Onsite DPM Exhaust Emission Rate: 3.85604E-07 grams/m2/sec

Annual Average Offsite DPM Exhaust Emission Rate: 1.77977E-05 grams/sec

X (m)	Y (m)	Onsite Annual DPM Exhaust w/Unit Emissions (ug/m3)	Onsite Annual DPM Exhaust w/Actual Emissions (ug/m3)	Offsite Annual DPM Exhaust w/Unit Emissions (ug/m3)	Offsite Annual DPM Exhaust w/Actual Emissions (ug/m3)	Total DPM (ug/m3)
565075.43	4207459.29	1.56868	0.06049	0.00004	7.11909E-05	0.06056
565374.04	4207297.22	1.11147	0.04286	0.00001	1.77977E-05	0.04288
565350.7	4207277.38	1.04941	0.04047	0.00001	1.77977E-05	0.04048
565325.02	4207271.54	1.06886	0.04122	0.00001	1.77977E-05	0.04123
565305.17	4207270.37	1.08011	0.04165	0.00001	1.77977E-05	0.04167
565273.66	4207262.2	0.99605	0.03841	0.00001	1.77977E-05	0.03843
565254.98	4207254.03	0.90341	0.03484	0.00001	1.77977E-05	0.03485
565231.64	4207249.36	0.8061	0.03108	0.00001	1.77977E-05	0.03110
565212.96	4207236.52	0.68951	0.02659	0.00001	1.77977E-05	0.02661
565183.78	4207233.02	0.57547	0.02219	0.00001	1.77977E-05	0.02221
565501.27	4207312.39	0.43397	0.01673	0.00001	1.77977E-05	0.01675
565516.44	4207325.23	0.43197	0.01666	0.00001	1.77977E-05	0.01667
565543.29	4207324.07	0.35225	0.01358	0.00001	1.77977E-05	0.01360
565372.87	4207269.21	0.91688	0.03536	0.00001	1.77977E-05	0.03537
565474.42	4207265.7	0.41709	0.01608	0.00001	1.77977E-05	0.01610
565222.3	4207670.73	1.15291	0.04446	0.00014	2.49168E-04	0.04471
565184.95	4207657.89	0.82263	0.03172	0.00014	2.49168E-04	0.03197
565236.31	4207708.08	1.04611	0.04034	0.00010	1.77977E-04	0.04052
565370.54	4207706.91	2.01093	0.07754	0.00004	7.11909E-05	0.07761
565399.72	4207696.41	2.20314	0.08495	0.00004	7.11909E-05	0.08503
565428.9	4207688.24	2.28553	0.08813	0.00003	5.33932E-05	0.08818
565151.1	4207652.05	0.68589	0.02645	0.00015	2.66966E-04	0.02672
565105.58	4207646.22	0.67052	0.02586	0.00016	2.84764E-04	0.02614
564896.65	4207642.72	0.35939	0.01386	0.00013	2.31370E-04	0.01409
564876.8	4207628.71	0.35874	0.01383	0.00015	2.66966E-04	0.01410
564858.13	4207614.7	0.35734	0.01378	0.00018	3.20359E-04	0.01410
564838.29	4207611.2	0.34017	0.01312	0.00018	3.20359E-04	0.01344
564807.94	4207600.7	0.32227	0.01243	0.00022	3.91550E-04	0.01282
564777.59	4207600.7	0.29748	0.01147	0.00024	4.27145E-04	0.01190
564749.58	4207603.03	0.27448	0.01058	0.00024	4.27145E-04	0.01101
564726.23	4207605.37	0.25871	0.00998	0.00024	4.27145E-04	0.01040
564701.72	4207615.87	0.23784	0.00917	0.00022	3.91550E-04	0.00956
564681.88	4207624.04	0.22303	0.00860	0.00021	3.73752E-04	0.00897
564649.2	4207633.38	0.2041	0.00787	0.00020	3.55954E-04	0.00823
564630.52	4207640.38	0.19286	0.00744	0.00019	3.38157E-04	0.00777
564609.51	4207650.89	0.18012	0.00695	0.00017	3.02561E-04	0.00725
564589.67	4207655.56	0.17212	0.00664	0.00017	3.02561E-04	0.00694
564563.99	4207668.4	0.15947	0.00615	0.00015	2.66966E-04	0.00642
564538.31	4207678.9	0.14898	0.00574	0.00013	2.31370E-04	0.00598
564517.3	4207687.07	0.14115	0.00544	0.00012	2.13573E-04	0.00566
CONCUNIT ug/	m^3	0	0.00000	0.00000	0.00000E+00	0.00000
DEPUNIT g/m^	2	0	0.00000	0.00000	0.00000E+00	0.00000

Willow Ave Storage Facility

Cancer Risk Impacts from Construction at the Maximum Impacted Sensitive Receptor - Infant

Cancer Potency Factor: 1.1 $(mg/kg\text{-}day)^{-1}$

Averaging Period 25550 days

Year	Unit DPM Concentration (ug/m3)	Age Sensitivty Factor	Daily Breathing Rate (L/kg-day)	Time At Home Factor	Exposure Frequency (days/year)	Exposure Duration (years)	Unit Risk Factor $(ug/m3)^{-1}$
3rd Trimester	1	10	361	0.85	98	0.25	3.2
1	1	10	1090	0.85	98	1	39.1
2	1	10	1090	0.85	322	1	128.4

BAAQMD 2016. Air Toxics NSR Program Health Risk Assessment (HRA) Guidelines

Willow Ave Storage Facility **Tier IV Mitigation** **at Sensitive Recptors**

Estimated Cancer Risks from Construction DPM - Infant Receptors

X (m)	Y (m)	InfantCancer Risk (3rd Trimester) 2018 (/million)	Infant Cancer Risk (year 1) 2018 (/million)	Infant Cancer Risk (year 2) 2019 (/million)	Total Cancer Risk (/million)
565075.43	4207459.29	0.173	2.095	7.778	10.04637
565374.04	4207297.22	0.123	1.484	5.507	7.11402
565350.7	4207277.38	0.116	1.401	5.200	6.71693
565325.02	4207271.54	0.118	1.427	5.296	6.84138
565305.17	4207270.37	0.119	1.442	5.352	6.91336
565273.66	4207262.2	0.110	1.330	4.935	6.37550
565254.98	4207254.03	0.100	1.206	4.477	5.78275
565231.64	4207249.36	0.089	1.076	3.995	5.16011
565212.96	4207236.52	0.076	0.921	3.417	4.41412
565183.78	4207233.02	0.064	0.768	2.852	3.68443
565501.27	4207312.39	0.048	0.579	2.152	2.77905
565516.44	4207325.23	0.048	0.577	2.142	2.76625
565543.29	4207324.07	0.039	0.470	1.747	2.25617
565372.87	4207269.21	0.101	1.224	4.543	5.86894
565474.42	4207265.7	0.046	0.557	2.068	2.67104
565222.3	4207670.73	0.127	1.540	5.742	7.40912
565184.95	4207657.89	0.091	1.099	4.106	5.29583
565236.31	4207708.08	0.116	1.397	5.204	6.71655
565370.54	4207706.91	0.222	2.685	9.969	12.87610
565399.72	4207696.41	0.244	2.942	10.921	14.10595
565428.9	4207688.24	0.253	3.052	11.326	14.63081
565151.1	4207652.05	0.076	0.916	3.431	4.42321
565105.58	4207646.22	0.074	0.896	3.357	4.32717
564896.65	4207642.72	0.040	0.480	1.810	2.32950
564876.8	4207628.71	0.040	0.479	1.811	2.32995
564858.13	4207614.7	0.040	0.477	1.811	2.32790
564838.29	4207611.2	0.038	0.454	1.726	2.21804
564807.94	4207600.7	0.036	0.431	1.646	2.11272
564777.59	4207600.7	0.033	0.398	1.528	1.95871
564749.58	4207603.03	0.030	0.367	1.414	1.81155
564726.23	4207605.37	0.029	0.346	1.336	1.71064
564701.72	4207615.87	0.026	0.318	1.228	1.57250
564681.88	4207624.04	0.025	0.298	1.153	1.47543
564649.2	4207633.38	0.023	0.273	1.057	1.35201
564630.52	4207640.38	0.021	0.258	0.999	1.27778
564609.51	4207650.89	0.020	0.241	0.931	1.19166
564589.67	4207655.56	0.019	0.230	0.891	1.14047
564563.99	4207668.4	0.018	0.213	0.824	1.05492
564538.31	4207678.9	0.016	0.199	0.768	0.98320
564517.3	4207687.07	0.016	0.189	0.727	0.93079
CONCUNIT ug	m^3	0.000	0.000	0.000	0.00000
DEPUNIT g/m	2	0.000	0.000	0.000	0.00000

Maximum Caner Risk
14.6
BAAQMD threshold of significance
10
Exceed thresholds?
yes

Willow Ave Storage Facility

Tier IV Mitigation

Cancer Risk Impacts from Construction at the Maximum Impacted Sensitive Receptor - Child
UTM: (565046,4185977)

Cancer Potency Factor:	1.1	$(mg/kg\text{-}day)^{-1}$
Exposure Frequency	350	days/year
Averaging Period	25550	days

Year	DPM Concentration (ug/m3)	Age Sensitivty Factor	Daily Breathing Rate (L/kg-day)	Time At Home Factor	Exposure Duration (years)	Unit Risk Factor $(ug/m3)^{-1}$
1	1	3	572	0.73	1	18.9
2	1	3	572	0.73	1	18.9

BAAQMD 2016. Air Toxics NSR Program Health Risk Assessment (HRA) Guidelines

Willow Ave Storage Facility

Tier IV Mitigation **at Sensitive Receptors**

Estimated Cancer Risks from Construction DPM

X (m)	Y (m)	Child Cancer Risk (year 1) 2018 (/million)	Child Cancer Risk (year 2) 2019 (/million)	Total Cancer Risk (/million)
565075.43	4207459.29	1.011	1.143	2.15455
565374.04	4207297.22	0.717	0.809	1.52595
565350.7	4207277.38	0.677	0.764	1.44076
565325.02	4207271.54	0.689	0.778	1.46746
565305.17	4207270.37	0.696	0.787	1.48290
565273.66	4207262.2	0.642	0.725	1.36752
565254.98	4207254.03	0.582	0.658	1.24036
565231.64	4207249.36	0.520	0.587	1.10680
565212.96	4207236.52	0.445	0.502	0.94676
565183.78	4207233.02	0.371	0.419	0.79023
565501.27	4207312.39	0.280	0.316	0.59601
565516.44	4207325.23	0.279	0.315	0.59327
565543.29	4207324.07	0.227	0.257	0.48384
565372.87	4207269.21	0.591	0.668	1.25885
565474.42	4207265.7	0.269	0.304	0.57284
565222.3	4207670.73	0.743	0.844	1.58730
565184.95	4207657.89	0.530	0.603	1.13396
565236.31	4207708.08	0.675	0.765	1.43933
565370.54	4207706.91	1.297	1.465	2.76158
565399.72	4207696.41	1.420	1.605	3.02540
565428.9	4207688.24	1.474	1.665	3.13815
565151.1	4207652.05	0.442	0.504	0.94661
565105.58	4207646.22	0.432	0.493	0.92586
564896.65	4207642.72	0.232	0.266	0.49777
564876.8	4207628.71	0.231	0.266	0.49757
564858.13	4207614.7	0.231	0.266	0.49668
564838.29	4207611.2	0.219	0.254	0.47311
564807.94	4207600.7	0.208	0.242	0.44991
564777.59	4207600.7	0.192	0.225	0.41658
564749.58	4207603.03	0.177	0.208	0.38501
564726.23	4207605.37	0.167	0.196	0.36336
564701.72	4207615.87	0.154	0.181	0.33403
564681.88	4207624.04	0.144	0.169	0.31335
564649.2	4207633.38	0.132	0.155	0.28703
564630.52	4207640.38	0.124	0.147	0.27125
564609.51	4207650.89	0.116	0.137	0.25308
564589.67	4207655.56	0.111	0.131	0.24210
564563.99	4207668.4	0.103	0.121	0.22405
564538.31	4207678.9	0.096	0.113	0.20896
564517.3	4207687.07	0.091	0.107	0.19787
CONCUNIT ug	m^3	0.000	0.000	0.00000
DEPUNIT g/m^	2	0.000	0.000	0.00000

Maximum Caner Risk
3.1
BAAQMD threshold of significance
10
Exceed thresholds?
No

Willow Ave Storage Facility

Tier IV Mitigation

Cancer Risk Impacts from Construction at the Maximum Impacted Sensitive Receptor - Adult

Cancer Potency Factor:	1.1	$(mg/kg\text{-}day)^{-1}$
Exposure Frequency	350	days/year
Averaging Period	25550	days

Year	DPM Concentration (ug/m3)	Age Sensitivty Factor	Daily Breathing Rate (L/kg-day)	Time At Home Factor	Exposure Duration (years)	Unit Risk Factor $(ug/m3)^{-1}$
1	1	1	261	0.72	1	2.8
2	1	1	261	0.72	1	2.8

BAAQMD 2016. Air Toxics NSR Program Health Risk Assessment (HRA) Guidelines

Willow Ave Storage Facility

Tier IV Mitigation **at Sensitive Receptors**

Estimated Cancer Risks from Construction DPM

X (m)	Y (m)	Adult Cancer Risk (year 1) 2018 (/million)	Adult Cancer Risk (year 2) 2019 (/million)	Total Cancer Risk (/million)
565075.43	4207459.29	0.152	0.171	0.32321
565374.04	4207297.22	0.108	0.121	0.22891
565350.7	4207277.38	0.101	0.115	0.21614
565325.02	4207271.54	0.103	0.117	0.22014
565305.17	4207270.37	0.104	0.118	0.22246
565273.66	4207262.2	0.096	0.109	0.20515
565254.98	4207254.03	0.087	0.099	0.18607
565231.64	4207249.36	0.078	0.088	0.16604
565212.96	4207236.52	0.067	0.075	0.14203
565183.78	4207233.02	0.056	0.063	0.11855
565501.27	4207312.39	0.042	0.047	0.08941
565516.44	4207325.23	0.042	0.047	0.08900
565543.29	4207324.07	0.034	0.039	0.07258
565372.87	4207269.21	0.089	0.100	0.18885
565474.42	4207265.7	0.040	0.046	0.08593
565222.3	4207670.73	0.112	0.127	0.23812
565184.95	4207657.89	0.080	0.091	0.17011
565236.31	4207708.08	0.101	0.115	0.21592
565370.54	4207706.91	0.195	0.220	0.41428
565399.72	4207696.41	0.213	0.241	0.45385
565428.9	4207688.24	0.221	0.250	0.47077
565151.1	4207652.05	0.066	0.076	0.14201
565105.58	4207646.22	0.065	0.074	0.13889
564896.65	4207642.72	0.035	0.040	0.07467
564876.8	4207628.71	0.035	0.040	0.07464
564858.13	4207614.7	0.035	0.040	0.07451
564838.29	4207611.2	0.033	0.038	0.07097
564807.94	4207600.7	0.031	0.036	0.06749
564777.59	4207600.7	0.029	0.034	0.06249
564749.58	4207603.03	0.027	0.031	0.05776
564726.23	4207605.37	0.025	0.029	0.05451
564701.72	4207615.87	0.023	0.027	0.05011
564681.88	4207624.04	0.022	0.025	0.04701
564649.2	4207633.38	0.020	0.023	0.04306
564630.52	4207640.38	0.019	0.022	0.04069
564609.51	4207650.89	0.017	0.021	0.03797
564589.67	4207655.56	0.017	0.020	0.03632
564563.99	4207668.4	0.015	0.018	0.03361
564538.31	4207678.9	0.014	0.017	0.03135
564517.3	4207687.07	0.014	0.016	0.02968
CONCUNIT ug	m^3	0.000	0.000	0.00000
DEPUNIT g/m	2	0.000	0.000	0.00000

Maximum Caner Risk
0.5
BAAQMD threshold of significance
10
Exceed thresholds?
No

Willow Ave Storage Facility

Tier IV Mitigation
at Sensitive Receptors

Chronic Non-Cancer Hazard Index

Reference Exposure Level (REL) for DPM: 5 ug/m3

CNCHI = DPM/REL

X (m)	Y (m)	2018 DPM (ug/m3)	2019 DPM (ug/m3)	Max DPM (ug/m3)	CNCHI
565075.43	4207459.29	0.053582	0.06056	0.06056	0.01211
565374.04	4207297.22	0.037964	0.042877	0.042877	0.00858
565350.7	4207277.38	0.035844	0.040483	0.040483	0.00810
565325.02	4207271.54	0.036509	0.041233	0.041233	0.00825
565305.17	4207270.37	0.036893	0.041667	0.041667	0.00833
565273.66	4207262.2	0.034022	0.038426	0.038426	0.00769
565254.98	4207254.03	0.030858	0.034854	0.034854	0.00697
565231.64	4207249.36	0.027534	0.031101	0.031101	0.00622
565212.96	4207236.52	0.023551	0.026606	0.026606	0.00532
565183.78	4207233.02	0.019656	0.022208	0.022208	0.00444
565501.27	4207312.39	0.014823	0.016752	0.016752	0.00335
565516.44	4207325.23	0.014755	0.016675	0.016675	0.00333
565543.29	4207324.07	0.012032	0.013601	0.013601	0.00272
565372.87	4207269.21	0.031318	0.035373	0.035373	0.00707
565474.42	4207265.7	0.014247	0.016101	0.016101	0.00322
565222.3	4207670.73	0.039385	0.044706	0.044706	0.00894
565184.95	4207657.89	0.028104	0.03197	0.03197	0.00639
565236.31	4207708.08	0.035735	0.040516	0.040516	0.00810
565370.54	4207706.91	0.068687	0.077613	0.077613	0.01552
565399.72	4207696.41	0.075253	0.085025	0.085025	0.01701
565428.9	4207688.24	0.078066	0.088184	0.088184	0.01764
565151.1	4207652.05	0.023434	0.026715	0.026715	0.00534
565105.58	4207646.22	0.022909	0.02614	0.02614	0.00523
564896.65	4207642.72	0.012281	0.01409	0.01409	0.00282
564876.8	4207628.71	0.01226	0.0141	0.0141	0.00282
564858.13	4207614.7	0.012213	0.0141	0.0141	0.00282
564838.29	4207611.2	0.011627	0.013437	0.013437	0.00269
564807.94	4207600.7	0.011017	0.012818	0.012818	0.00256
564777.59	4207600.7	0.010171	0.011898	0.011898	0.00238
564749.58	4207603.03	0.009385	0.011011	0.011011	0.00220
564726.23	4207605.37	0.008847	0.010403	0.010403	0.00208
564701.72	4207615.87	0.008133	0.009563	0.009563	0.00191
564681.88	4207624.04	0.007627	0.008974	0.008974	0.00179
564649.2	4207633.38	0.00698	0.008226	0.008226	0.00165
564630.52	4207640.38	0.006595	0.007775	0.007775	0.00155
564609.51	4207650.89	0.006159	0.007248	0.007248	0.00145
564589.67	4207655.56	0.005886	0.00694	0.00694	0.00139
564563.99	4207668.4	0.005453	0.006416	0.006416	0.00128
564538.31	4207678.9	0.005094	0.005976	0.005976	0.00120
564517.3	4207687.07	0.004826	0.005656	0.005656	0.00113
CONCUNIT ug/ m^3		0	0	0	0.00000
DEPUNIT g/m^	2	0	0	0	0.00000

Maximum Caner Risk
0.02

BAAQMD threshold of significance
1

Exceed thresholds?
No

Willow Ave Storage Facility

Tier IV Mitigation
at Sensitive Receptors

Annual Average PM2.5 (Exhaust + Fugitive Dust)

X (m)	Y (m)	2018 PM2.5 (ug/m3)	2019 PM2.5 (ug/m3)	Max PM2.5 (ug/m3)
565075.43	4207459.29	0.053582	0.06056	0.06056
565374.04	4207297.22	0.037964	0.042877	0.04288
565350.7	4207277.38	0.035844	0.040483	0.04048
565325.02	4207271.54	0.036509	0.041233	0.04123
565305.17	4207270.37	0.036893	0.041667	0.04167
565273.66	4207262.2	0.034022	0.038426	0.03843
565254.98	4207254.03	0.030858	0.034854	0.03485
565231.64	4207249.36	0.027534	0.031101	0.03110
565212.96	4207236.52	0.023551	0.026606	0.02661
565183.78	4207233.02	0.019656	0.022208	0.02221
565501.27	4207312.39	0.014823	0.016752	0.01675
565516.44	4207325.23	0.014755	0.016675	0.01667
565543.29	4207324.07	0.012032	0.013601	0.01360
565372.87	4207269.21	0.031318	0.035373	0.03537
565474.42	4207265.7	0.014247	0.016101	0.01610
565222.3	4207670.73	0.039385	0.044706	0.04471
565184.95	4207657.89	0.028104	0.03197	0.03197
565236.31	4207708.08	0.035735	0.040516	0.04052
565370.54	4207706.91	0.068687	0.077613	0.07761
565399.72	4207696.41	0.075253	0.085025	0.08503
565428.9	4207688.24	0.078066	0.088184	0.08818
565151.1	4207652.05	0.023434	0.026715	0.02672
565105.58	4207646.22	0.022909	0.02614	0.02614
564896.65	4207642.72	0.012281	0.01409	0.01409
564876.8	4207628.71	0.01226	0.0141	0.01410
564858.13	4207614.7	0.012213	0.0141	0.01410
564838.29	4207611.2	0.011627	0.013437	0.01344
564807.94	4207600.7	0.011017	0.012818	0.01282
564777.59	4207600.7	0.010171	0.011898	0.01190
564749.58	4207603.03	0.009385	0.011011	0.01101
564726.23	4207605.37	0.008847	0.010403	0.01040
564701.72	4207615.87	0.008133	0.009563	0.00956
564681.88	4207624.04	0.007627	0.008974	0.00897
564649.2	4207633.38	0.00698	0.008226	0.00823
564630.52	4207640.38	0.006595	0.007775	0.00777
564609.51	4207650.89	0.006159	0.007248	0.00725
564589.67	4207655.56	0.005886	0.00694	0.00694
564563.99	4207668.4	0.005453	0.006416	0.00642
564538.31	4207678.9	0.005094	0.005976	0.00598
564517.3	4207687.07	0.004826	0.005656	0.00566
CONCUNIT ug/	m^3	0	0	0.00000
DEPUNIT g/m^	2	0	0	0.00000

Maximum Caner Risk
0.1
BAAQMD threshold of significance
0.3
Exceed thresholds?
No

Willow Ave Service Commercial

Tier III Mitigation

Construction Annual DPM Emissions (as PM2.5 Exhaust)

Construction Scheduling	**2018**	
	13.6	hours/day
	7	days/week
	14	weeks/year
	1332.8	hours/year

Onsite Construction Area Source Size (m2): 15372 from AERMOD

Onsite Construction PM2.5 Emissions

2018	**Construction Activity**	**Onsite Annual DPM Exhaust Emissions (tons/year)**	**Onsite Annual DPM Exhaust Emissions (g/sec)**	**Onsite DPM Source Exhaust Emissions (g/m2-sec)**
	Site Preparation	2.840E-02	5.374E-03	3.496E-07
	Grading	1.210E-02	2.290E-03	1.490E-07
	Total	**4.050E-02**	**7.664E-03**	**4.986E-07**

Offsite Construction Vehicle PM2.5 Emissions

2018	**Construction Activity**	**Offsite Hauling Annual DPM Exhaust Emissions (tons/year)**	**Offsite Vendor Annual DPM Exhaust Emissions (tons/year)**	**Offsite Workers Annual DPM Exhaust Emissions (tons/year)**	
	Site Preparation	0.000E+00	0.000E+00	3.000E-05	
	Grading	3.000E-05	0.000E+00	1.000E-05	
	Total (tons/year)	**3.000E-05**	**0.000E+00**	**4.000E-05**	**7.000E-05**
	Trip Distance assumed in CalEEMod (mi)	20.0	7.3	10.8	
	Offsite Project Trip Distance Along Roadway Segment Project>Willow Ave>John Muir Pkwy (mi)	0.60	0.60	0.60	
	Offsite Project Emissions Along Roadway Segment Project>Willow Ave>John Muir Pkwy (tons/year)	**9.067E-07**	**0.000E+00**	**2.239E-06**	

Offsite Emissions Along Roadway Segment Analyzed	
Total Offsite Project Exhaust Emissions (tons/year)	**3.145E-06**
Total Offsite Project Exhaust Emissions (grams/sec)	**5.952E-07**

Onsite Exhaust Emissions (tons/year)	**4.050E-02**
Total Onsite Emissions (tons/year)	**4.050E-02**
Onsite Exhaust Emissions (g/m2-sec)	**4.986E-07**

Total PM@2.5 Exhaust (tons/year)	4.050E-02

Willow Ave Service Commercial

Tier III Mitigation

Construction Annual DPM Emissions (as PM2.5 Exhaust)

Construction Scheduling	**2019**	
	13.6	hours/day
	7	days/week
	39	weeks/year
	3712.8	hours/year

Onsite Construction Area Source Size (m2): 15372.00

Onsite Construction PM2.5 Emissions

2019	**Construction Activity**	**Onsite Annual DPM Exhaust Emissions (tons/year)**	**Onsite Annual DPM Exhaust Emissions (g/sec)**	**Onsite DPM Source Exhaust Emissions (g/m2-sec)**
	Grading	3.360E-02	2.283E-03	1.485E-07
	Building Construction	6.870E-02	4.667E-03	3.036E-07
	Paving	1.570E-02	1.067E-03	6.938E-08
	Architectural Coating	1.470E-03	9.986E-05	6.496E-09
	Total	**1.195E-01**	**8.116E-03**	**5.280E-07**

Offsite Construction Vehicle PM2.5 Emissions

2019	**Construction Activity**	**Offsite Hauling Annual DPM Exhaust Emissions (tons/year)**	**Offsite Vendor Annual DPM Exhaust Emissions (tons/year)**	**Offsite Workers Annual DPM Exhaust Emissions (tons/year)**	
	Grading	7.000E-05	0.000E+00	3.000E-05	
	Building Construction	0.000E+00	1.500E-03	2.000E-04	
	Paving	0.000E+00	0.000E+00	3.000E-05	
	Architectural Coating	0.000E+00	0.000E+00	1.000E-05	
	Total (tons/year)	**7.000E-05**	**1.500E-03**	**2.700E-04**	**1.840E-03**
	Trip Distance assumed in CalEEMod (mi)	20.0	7.3	10.8	
	Offsite Project Trip Distance Project>Willow Ave>John Muir Pkwy (mi)	0.60	0.60	0.60	
	Offsite Project Emissions Project>Willow Ave>John Muir Pkwy (tons/year)	**2.116E-06**	**1.242E-04**	**1.511E-05**	

Emissions Along Roadway Segment	
Offsite Project Exhaust Emissions (tons/year)	**1.414E-04**
Offsite Project Exhaust Emissions (grams/sec)	**9.608E-06**
Offsite Project Fugitive Emissions (tons/year)	**0.000E+00**
Offsite Project Fugitive Emissions (grams/sec)	**0.000E+00**

Onsite Exhaust Emissions (tons/year)	**1.195E-01**
Total Onsite Emissions (tons/year)	**1.195E-01**
Onsite Exhaust Emissions (g/m2-sec)	**5.280E-07**

Total PM@2.5 Exhaust (tons/year)	1.196E-01
Total PM2.5 (tons/year)	**1.196E-01**

Willow Ave Service Commercial

2018 **Tier III Mitigation** **At Sensitive Receptors**

Construction Annual DPM Emissions (as PM2.5 Exhaust)

Annual Average Onsite DPM Exhaust Emission Rate: 4.98589E-07
Annual Average Offsite DPM Exhaust Emission Rate: 5.95228E-07

X (m)	Y (m)	Onsite Annual DPM Exhaust w/Unit Emissions (ug/m3)	Onsite Annual DPM Exhaust w/Actual Emissions (ug/m3)	Offsite Annual DPM Exhaust w/Unit Emissions (ug/m3)	Offsite Annual DPM Exhaust w/Actual Emissions (ug/m3)	Total DPM (ug/m3)
565075.43	4207459.29	3.7009	0.18452	0.00004	2.38091E-06	0.18453
565374.04	4207297.22	0.44195	0.02204	0.00001	5.95228E-07	0.02204
565350.7	4207277.38	0.40339	0.02011	0.00001	5.95228E-07	0.02011
565325.02	4207271.54	0.47282	0.02357	0.00001	5.95228E-07	0.02357
565305.17	4207270.37	0.5309	0.02647	0.00001	5.95228E-07	0.02647
565273.66	4207262.2	0.62483	0.03115	0.00001	5.95228E-07	0.03115
565254.98	4207254.03	0.67107	0.03346	0.00001	5.95228E-07	0.03346
565231.64	4207249.36	0.75693	0.03774	0.00001	5.95228E-07	0.03774
565212.96	4207236.52	0.7601	0.03790	0.00001	5.95228E-07	0.03790
565183.78	4207233.02	0.84604	0.04218	0.00001	5.95228E-07	0.04218
565501.27	4207312.39	0.28611	0.01427	0.00001	5.95228E-07	0.01427
565516.44	4207325.23	0.28943	0.01443	0.00001	5.95228E-07	0.01443
565543.29	4207324.07	0.24693	0.01231	0.00001	5.95228E-07	0.01231
565372.87	4207269.21	0.34369	0.01714	0.00001	5.95228E-07	0.01714
565474.42	4207265.7	0.23106	0.01152	0.00001	5.95228E-07	0.01152
565222.3	4207670.73	1.09623	0.05466	0.00014	8.33320E-06	0.05467
565184.95	4207657.89	1.02905	0.05131	0.00014	8.33320E-06	0.05132
565236.31	4207708.08	0.9166	0.04570	0.00010	5.95228E-06	0.04571
565370.54	4207706.91	0.73374	0.03658	0.00004	2.38091E-06	0.03659
565399.72	4207696.41	0.66359	0.03309	0.00004	2.38091E-06	0.03309
565428.9	4207688.24	0.5875	0.02929	0.00003	1.78569E-06	0.02929
565151.1	4207652.05	0.92822	0.04628	0.00015	8.92843E-06	0.04629
565105.58	4207646.22	0.77058	0.03842	0.00016	9.52366E-06	0.03843
564896.65	4207642.72	0.28986	0.01445	0.00013	7.73797E-06	0.01446
564876.8	4207628.71	0.28873	0.01440	0.00015	8.92843E-06	0.01440
564858.13	4207614.7	0.2831	0.01412	0.00018	1.07141E-05	0.01413
564838.29	4207611.2	0.26605	0.01326	0.00018	1.07141E-05	0.01328
564807.94	4207600.7	0.24651	0.01229	0.00022	1.30950E-05	0.01230
564777.59	4207600.7	0.22472	0.01120	0.00024	1.42855E-05	0.01122
564749.58	4207603.03	0.20539	0.01024	0.00024	1.42855E-05	0.01025
564726.23	4207605.37	0.19265	0.00961	0.00024	1.42855E-05	0.00962
564701.72	4207615.87	0.17649	0.00880	0.00022	1.30950E-05	0.00881
564681.88	4207624.04	0.16513	0.00823	0.00021	1.24998E-05	0.00825
564649.2	4207633.38	0.15056	0.00751	0.00020	1.19046E-05	0.00752
564630.52	4207640.38	0.14197	0.00708	0.00019	1.13093E-05	0.00709
564609.51	4207650.89	0.13243	0.00660	0.00017	1.01189E-05	0.00661
564589.67	4207655.56	0.12631	0.00630	0.00017	1.01189E-05	0.00631
564563.99	4207668.4	0.11698	0.00583	0.00015	8.92843E-06	0.00584
564538.31	4207678.9	0.10917	0.00544	0.00013	7.73797E-06	0.00545
564517.3	4207687.07	0.10333	0.00515	0.00012	7.14274E-06	0.00516
CONCUNIT ug/	m^3	0	0.00000	0.00000	0.00000E+00	0.00000
DEPUNIT g/m^	2	0	0.00000	0.00000	0.00000E+00	0.00000

Willow Ave Service Commercial

2019 **Tier III Mitigation** **at Sensitive Receptors**

Construction Annual DPM Emissions (as PM2.5 Exhaust)

Annual Average Onsite DPM Exhaust Emission Rate: 5.27971E-07 grams/m2/sec

Annual Average Offsite DPM Exhaust Emission Rate: 9.60754E-06 grams/sec

X (m)	Y (m)	Onsite Annual DPM Exhaust w/Unit Emissions (ug/m3)	Onsite Annual DPM Exhaust w/Actual Emissions (ug/m3)	Offsite Annual DPM Exhaust w/Unit Emissions (ug/m3)	Offsite Annual DPM Exhaust w/Actual Emissions (ug/m3)	Total DPM (ug/m3)
565075.43	4207459.29	3.7009	0.19540	0.00004	3.84302E-05	0.19544
565374.04	4207297.22	0.44195	0.02333	0.00001	9.60754E-06	0.02334
565350.7	4207277.38	0.40339	0.02130	0.00001	9.60754E-06	0.02131
565325.02	4207271.54	0.47282	0.02496	0.00001	9.60754E-06	0.02497
565305.17	4207270.37	0.5309	0.02803	0.00001	9.60754E-06	0.02804
565273.66	4207262.2	0.62483	0.03299	0.00001	9.60754E-06	0.03300
565254.98	4207254.03	0.67107	0.03543	0.00001	9.60754E-06	0.03544
565231.64	4207249.36	0.75693	0.03996	0.00001	9.60754E-06	0.03997
565212.96	4207236.52	0.7601	0.04013	0.00001	9.60754E-06	0.04014
565183.78	4207233.02	0.84604	0.04467	0.00001	9.60754E-06	0.04468
565501.27	4207312.39	0.28611	0.01511	0.00001	9.60754E-06	0.01512
565516.44	4207325.23	0.28943	0.01528	0.00001	9.60754E-06	0.01529
565543.29	4207324.07	0.24693	0.01304	0.00001	9.60754E-06	0.01305
565372.87	4207269.21	0.34369	0.01815	0.00001	9.60754E-06	0.01816
565474.42	4207265.7	0.23106	0.01220	0.00001	9.60754E-06	0.01221
565222.3	4207670.73	1.09623	0.05788	0.00014	1.34506E-04	0.05801
565184.95	4207657.89	1.02905	0.05433	0.00014	1.34506E-04	0.05447
565236.31	4207708.08	0.9166	0.04839	0.00010	9.60754E-05	0.04849
565370.54	4207706.91	0.73374	0.03874	0.00004	3.84302E-05	0.03878
565399.72	4207696.41	0.66359	0.03504	0.00004	3.84302E-05	0.03507
565428.9	4207688.24	0.5875	0.03102	0.00003	2.88226E-05	0.03105
565151.1	4207652.05	0.92822	0.04901	0.00015	1.44113E-04	0.04915
565105.58	4207646.22	0.77058	0.04068	0.00016	1.53721E-04	0.04084
564896.65	4207642.72	0.28986	0.01530	0.00013	1.24898E-04	0.01543
564876.8	4207628.71	0.28873	0.01524	0.00015	1.44113E-04	0.01539
564858.13	4207614.7	0.2831	0.01495	0.00018	1.72936E-04	0.01512
564838.29	4207611.2	0.26605	0.01405	0.00018	1.72936E-04	0.01422
564807.94	4207600.7	0.24651	0.01302	0.00022	2.11366E-04	0.01323
564777.59	4207600.7	0.22472	0.01186	0.00024	2.30581E-04	0.01210
564749.58	4207603.03	0.20539	0.01084	0.00024	2.30581E-04	0.01107
564726.23	4207605.37	0.19265	0.01017	0.00024	2.30581E-04	0.01040
564701.72	4207615.87	0.17649	0.00932	0.00022	2.11366E-04	0.00953
564681.88	4207624.04	0.16513	0.00872	0.00021	2.01758E-04	0.00892
564649.2	4207633.38	0.15056	0.00795	0.00020	1.92151E-04	0.00814
564630.52	4207640.38	0.14197	0.00750	0.00019	1.82543E-04	0.00768
564609.51	4207650.89	0.13243	0.00699	0.00017	1.63328E-04	0.00716
564589.67	4207655.56	0.12631	0.00667	0.00017	1.63328E-04	0.00683
564563.99	4207668.4	0.11698	0.00618	0.00015	1.44113E-04	0.00632
564538.31	4207678.9	0.10917	0.00576	0.00013	1.24898E-04	0.00589
564517.3	4207687.07	0.10333	0.00546	0.00012	1.15290E-04	0.00557
CONCUNIT ug/	m^3	0	0.00000	0.00000	0.00000E+00	0.00000
DEPUNIT g/m^	2	0	0.00000	0.00000	0.00000E+00	0.00000

Willow Ave Service Commercial

Cancer Risk Impacts from Construction at the Maximum Impacted Sensitive Receptor - Infant

Cancer Potency Factor:	1.1	$(mg/kg\text{-}day)^{-1}$
Exposure Frequency	270	days/year
Averaging Period	25550	days

Year	Unit DPM Concentration (ug/m3)	Age Sensitivty Factor	Daily Breathing Rate (L/kg-day)	Time At Home Factor	Exposure Frequency (days/year)	Exposure Duration (years)	Unit Risk Factor $(ug/m3)^{-1}$
3rd Trimester	1	10	361	0.85	98	0.25	3.2
1	1	10	1090	0.85	98	1	39.1
2	1	10	1090	0.85	273	1	108.9

BAAQMD 2016. Air Toxics NSR Program Health Risk Assessment (HRA) Guidelines

Willow Ave Service Commercial **Tier III Mitigation** **at Sensitive Recptors**

Estimated Cancer Risks from Construction DPM - Infant Receptors

X (m)	Y (m)	InfantCancer Risk (3rd Trimester) 2018 (/million)	Infant Cancer Risk (year 1) 2018 (/million)	Infant Cancer Risk (year 2) 2019 (/million)	Total Cancer Risk (/million)
565075.43	4207459.29	0.597	7.213	21.282	29.09248
565374.04	4207297.22	0.071	0.861	2.542	3.47469
565350.7	4207277.38	0.065	0.786	2.320	3.17162
565325.02	4207271.54	0.076	0.922	2.719	3.71732
565305.17	4207270.37	0.086	1.035	3.053	4.17382
565273.66	4207262.2	0.101	1.218	3.593	4.91209
565254.98	4207254.03	0.108	1.308	3.859	5.27552
565231.64	4207249.36	0.122	1.475	4.353	5.95036
565212.96	4207236.52	0.123	1.481	4.371	5.97528
565183.78	4207233.02	0.137	1.649	4.865	6.65075
565501.27	4207312.39	0.046	0.558	1.646	2.24983
565516.44	4207325.23	0.047	0.564	1.665	2.27592
565543.29	4207324.07	0.040	0.481	1.421	1.94188
565372.87	4207269.21	0.055	0.670	1.977	2.70239
565474.42	4207265.7	0.037	0.450	1.329	1.81715
565222.3	4207670.73	0.177	2.137	6.317	8.63111
565184.95	4207657.89	0.166	2.006	5.931	8.10309
565236.31	4207708.08	0.148	1.787	5.280	7.21497
565370.54	4207706.91	0.118	1.430	4.223	5.77131
565399.72	4207696.41	0.107	1.293	3.819	5.21995
565428.9	4207688.24	0.095	1.145	3.381	4.62083
565151.1	4207652.05	0.150	1.809	5.352	7.31166
565105.58	4207646.22	0.124	1.502	4.447	6.07372
564896.65	4207642.72	0.047	0.565	1.680	2.29216
564876.8	4207628.71	0.047	0.563	1.676	2.28542
564858.13	4207614.7	0.046	0.552	1.646	2.24438
564838.29	4207611.2	0.043	0.519	1.548	2.11038
564807.94	4207600.7	0.040	0.481	1.440	1.96108
564777.59	4207600.7	0.036	0.439	1.317	1.79196
564749.58	4207603.03	0.033	0.401	1.206	1.64003
564726.23	4207605.37	0.031	0.376	1.133	1.53990
564701.72	4207615.87	0.029	0.344	1.038	1.41074
564681.88	4207624.04	0.027	0.322	0.971	1.32038
564649.2	4207633.38	0.024	0.294	0.887	1.20479
564630.52	4207640.38	0.023	0.277	0.836	1.13621
564609.51	4207650.89	0.021	0.259	0.779	1.05908
564589.67	4207655.56	0.020	0.247	0.744	1.01098
564563.99	4207668.4	0.019	0.228	0.688	0.93551
564538.31	4207678.9	0.018	0.213	0.641	0.87198
564517.3	4207687.07	0.017	0.202	0.607	0.82501
CONCUNIT ug	m^3	0.000	0.000	0.000	0.00000
DEPUNIT g/m	2	0.000	0.000	0.000	0.00000

Maximum Caner Risk
29.1

BAAQMD threshold of significance
10

Exceed thresholds?
No

Willow Ave Service Commercial

Tier III Mitigation

Cancer Risk Impacts from Construction at the Maximum Impacted Sensitive Receptor - Child
UTM: (565046,4185977)

Cancer Potency Factor:	1.1	$(mg/kg\text{-}day)^{-1}$
Exposure Frequency	350	days/year
Averaging Period	25550	days

Year	DPM Concentration (ug/m3)	Age Sensitivty Factor	Daily Breathing Rate (L/kg-day)	Time At Home Factor	Exposure Duration (years)	Unit Risk Factor $(ug/m3)^{-1}$
1	1	3	572	0.73	1	18.9
2	1	3	572	0.73	1	18.9

BAAQMD 2016. Air Toxics NSR Program Health Risk Assessment (HRA) Guidelines

Willow Ave Service Commercial

at Sensitive Receptors

Estimated Cancer Risks from Construction DPM

X (m)	Y (m)	Child Cancer Risk (year 1) 2017 (/million)	Child Cancer Risk (year 2) 2017 (/million)	Total Cancer Risk (/million)
565075.43	4207459.29	3.483	3.689	7.17214
565374.04	4207297.22	0.416	0.441	0.85657
565350.7	4207277.38	0.380	0.402	0.78186
565325.02	4207271.54	0.445	0.471	0.91639
565305.17	4207270.37	0.500	0.529	1.02894
565273.66	4207262.2	0.588	0.623	1.21095
565254.98	4207254.03	0.632	0.669	1.30055
565231.64	4207249.36	0.712	0.755	1.46692
565212.96	4207236.52	0.715	0.758	1.47307
565183.78	4207233.02	0.796	0.843	1.63959
565501.27	4207312.39	0.269	0.285	0.55460
565516.44	4207325.23	0.272	0.289	0.56103
565543.29	4207324.07	0.232	0.246	0.47868
565372.87	4207269.21	0.323	0.343	0.66617
565474.42	4207265.7	0.217	0.230	0.44793
565222.3	4207670.73	1.032	1.095	2.12690
565184.95	4207657.89	0.969	1.028	1.99672
565236.31	4207708.08	0.863	0.915	1.77805
565370.54	4207706.91	0.691	0.732	1.42256
565399.72	4207696.41	0.625	0.662	1.28663
565428.9	4207688.24	0.553	0.586	1.13900
565151.1	4207652.05	0.874	0.928	1.80153
565105.58	4207646.22	0.725	0.771	1.49626
564896.65	4207642.72	0.273	0.291	0.56418
564876.8	4207628.71	0.272	0.290	0.56237
564858.13	4207614.7	0.267	0.285	0.55204
564838.29	4207611.2	0.251	0.268	0.51900
564807.94	4207600.7	0.232	0.250	0.48191
564777.59	4207600.7	0.212	0.228	0.44007
564749.58	4207603.03	0.194	0.209	0.40261
564726.23	4207605.37	0.182	0.196	0.37793
564701.72	4207615.87	0.166	0.180	0.34623
564681.88	4207624.04	0.156	0.168	0.32402
564649.2	4207633.38	0.142	0.154	0.29560
564630.52	4207640.38	0.134	0.145	0.27876
564609.51	4207650.89	0.125	0.135	0.25989
564589.67	4207655.56	0.119	0.129	0.24803
564563.99	4207668.4	0.110	0.119	0.22957
564538.31	4207678.9	0.103	0.111	0.21405
564517.3	4207687.07	0.097	0.105	0.20254
CONCUNIT ug	m^3	0.000	0.000	0.00000
DEPUNIT g/m	2	0.000	0.000	0.00000

Maximum Caner Risk
7.2
BAAQMD threshold of significance
10
Exceed thresholds?
No

Willow Ave Service Commercial

Tier III Mitigation

Cancer Risk Impacts from Construction at the Maximum Impacted Sensitive Receptor - Adult

Cancer Potency Factor:	1.1	$(mg/kg\text{-}day)^{-1}$
Exposure Frequency	350	days/year
Averaging Period	25550	days

Year	DPM Concentration (ug/m3)	Age Sensitivty Factor	Daily Breathing Rate (L/kg-day)	Time At Home Factor	Exposure Duration (years)	Unit Risk Factor $(ug/m3)^{-1}$
1	1	1	261	0.72	1	2.8
2	1	1	261	0.72	1	2.8

BAAQMD 2016. Air Toxics NSR Program Health Risk Assessment (HRA) Guidelines

Willow Ave Service Commercial

at Sensitive Receptors

Estimated Cancer Risks from Construction DPM

X (m)	Y (m)	Adult Cancer Risk (year 1) 2018 (/million)	Adult Cancer Risk (year 2) 2019 (/million)	Total Cancer Risk (/million)
565075.43	4207459.29	0.523	0.553	1.07592
565374.04	4207297.22	0.062	0.066	0.12850
565350.7	4207277.38	0.057	0.060	0.11729
565325.02	4207271.54	0.067	0.071	0.13747
565305.17	4207270.37	0.075	0.079	0.15436
565273.66	4207262.2	0.088	0.093	0.18166
565254.98	4207254.03	0.095	0.100	0.19510
565231.64	4207249.36	0.107	0.113	0.22006
565212.96	4207236.52	0.107	0.114	0.22098
565183.78	4207233.02	0.119	0.127	0.24596
565501.27	4207312.39	0.040	0.043	0.08320
565516.44	4207325.23	0.041	0.043	0.08416
565543.29	4207324.07	0.035	0.037	0.07181
565372.87	4207269.21	0.049	0.051	0.09994
565474.42	4207265.7	0.033	0.035	0.06720
565222.3	4207670.73	0.155	0.164	0.31907
565184.95	4207657.89	0.145	0.154	0.29954
565236.31	4207708.08	0.129	0.137	0.26673
565370.54	4207706.91	0.104	0.110	0.21341
565399.72	4207696.41	0.094	0.099	0.19301
565428.9	4207688.24	0.083	0.088	0.17087
565151.1	4207652.05	0.131	0.139	0.27026
565105.58	4207646.22	0.109	0.116	0.22446
564896.65	4207642.72	0.041	0.044	0.08463
564876.8	4207628.71	0.041	0.044	0.08436
564858.13	4207614.7	0.040	0.043	0.08281
564838.29	4207611.2	0.038	0.040	0.07786
564807.94	4207600.7	0.035	0.037	0.07229
564777.59	4207600.7	0.032	0.034	0.06602
564749.58	4207603.03	0.029	0.031	0.06040
564726.23	4207605.37	0.027	0.029	0.05669
564701.72	4207615.87	0.025	0.027	0.05194
564681.88	4207624.04	0.023	0.025	0.04861
564649.2	4207633.38	0.021	0.023	0.04434
564630.52	4207640.38	0.020	0.022	0.04182
564609.51	4207650.89	0.019	0.020	0.03899
564589.67	4207655.56	0.018	0.019	0.03721
564563.99	4207668.4	0.017	0.018	0.03444
564538.31	4207678.9	0.015	0.017	0.03211
564517.3	4207687.07	0.015	0.016	0.03038
CONCUNIT ug	m^3	0.000	0.000	0.00000
DEPUNIT g/m	2	0.000	0.000	0.00000

Maximum Caner Risk

1.1

BAAQMD threshold of significance

10

Exceed thresholds?

No

Willow Ave Service Commercial

Tier III Mitigation
at Sensitive Receptors

Chronic Non-Cancer Hazard Index

Reference Exposure Level (REL) for DPM: 5 ug/m3

CNCHI = DPM/REL

X (m)	Y (m)	2018 DPM (ug/m3)	2019 DPM (ug/m3)	Max DPM (ug/m3)	CNCHI
565075.43	4207459.29	0.184525	0.195435	0.195435	0.03909
565374.04	4207297.22	0.022036	0.023343	0.023343	0.00467
565350.7	4207277.38	0.020113	0.021307	0.021307	0.00426
565325.02	4207271.54	0.023575	0.024973	0.024973	0.00499
565305.17	4207270.37	0.026471	0.02804	0.02804	0.00561
565273.66	4207262.2	0.031154	0.032999	0.032999	0.00660
565254.98	4207254.03	0.033459	0.03544	0.03544	0.00709
565231.64	4207249.36	0.03774	0.039973	0.039973	0.00799
565212.96	4207236.52	0.037898	0.040141	0.040141	0.00803
565183.78	4207233.02	0.042183	0.044678	0.044678	0.00894
565501.27	4207312.39	0.014266	0.015115	0.015115	0.00302
565516.44	4207325.23	0.014431	0.015291	0.015291	0.00306
565543.29	4207324.07	0.012312	0.013047	0.013047	0.00261
565372.87	4207269.21	0.017137	0.018155	0.018155	0.00363
565474.42	4207265.7	0.011521	0.012209	0.012209	0.00244
565222.3	4207670.73	0.054665	0.058012	0.058012	0.01160
565184.95	4207657.89	0.051316	0.054465	0.054465	0.01089
565236.31	4207708.08	0.045707	0.04849	0.04849	0.00970
565370.54	4207706.91	0.036586	0.038778	0.038778	0.00776
565399.72	4207696.41	0.033088	0.035074	0.035074	0.00701
565428.9	4207688.24	0.029294	0.031047	0.031047	0.00621
565151.1	4207652.05	0.046289	0.049151	0.049151	0.00983
565105.58	4207646.22	0.03843	0.040838	0.040838	0.00817
564896.65	4207642.72	0.01446	0.015429	0.015429	0.00309
564876.8	4207628.71	0.014405	0.015388	0.015388	0.00308
564858.13	4207614.7	0.014126	0.01512	0.01512	0.00302
564838.29	4207611.2	0.013276	0.01422	0.01422	0.00284
564807.94	4207600.7	0.012304	0.013226	0.013226	0.00265
564777.59	4207600.7	0.011219	0.012095	0.012095	0.00242
564749.58	4207603.03	0.010255	0.011075	0.011075	0.00221
564726.23	4207605.37	0.00962	0.010402	0.010402	0.00208
564701.72	4207615.87	0.008813	0.00953	0.00953	0.00191
564681.88	4207624.04	0.008246	0.00892	0.00892	0.00178
564649.2	4207633.38	0.007519	0.008141	0.008141	0.00163
564630.52	4207640.38	0.00709	0.007678	0.007678	0.00154
564609.51	4207650.89	0.006613	0.007155	0.007155	0.00143
564589.67	4207655.56	0.006308	0.006832	0.006832	0.00137
564563.99	4207668.4	0.005841	0.00632	0.00632	0.00126
564538.31	4207678.9	0.005451	0.005889	0.005889	0.00118
564517.3	4207687.07	0.005159	0.005571	0.005571	0.00111
CONCUNIT ug/ m^3		0	0	0	0.00000
DEPUNIT g/m^	2	0	0	0	0.00000

Maximum Caner Risk
0.04

BAAQMD threshold of significance
1

Exceed thresholds?
No

Willow Ave Service Commercial

Tier III Mitigation
at Sensitive Receptors

Annual Average PM2.5 (Exhaust + Fugitive Dust)

X (m)	Y (m)	2018 PM2.5 (ug/m3)	2019 PM2.5 (ug/m3)	Max PM2.5 (ug/m3)
565075.43	4207459.29	0.184525	0.195435	0.19544
565374.04	4207297.22	0.022036	0.023343	0.02334
565350.7	4207277.38	0.020113	0.021307	0.02131
565325.02	4207271.54	0.023575	0.024973	0.02497
565305.17	4207270.37	0.026471	0.02804	0.02804
565273.66	4207262.2	0.031154	0.032999	0.03300
565254.98	4207254.03	0.033459	0.03544	0.03544
565231.64	4207249.36	0.03774	0.039973	0.03997
565212.96	4207236.52	0.037898	0.040141	0.04014
565183.78	4207233.02	0.042183	0.044678	0.04468
565501.27	4207312.39	0.014266	0.015115	0.01512
565516.44	4207325.23	0.014431	0.015291	0.01529
565543.29	4207324.07	0.012312	0.013047	0.01305
565372.87	4207269.21	0.017137	0.018155	0.01816
565474.42	4207265.7	0.011521	0.012209	0.01221
565222.3	4207670.73	0.054665	0.058012	0.05801
565184.95	4207657.89	0.051316	0.054465	0.05447
565236.31	4207708.08	0.045707	0.04849	0.04849
565370.54	4207706.91	0.036586	0.038778	0.03878
565399.72	4207696.41	0.033088	0.035074	0.03507
565428.9	4207688.24	0.029294	0.031047	0.03105
565151.1	4207652.05	0.046289	0.049151	0.04915
565105.58	4207646.22	0.03843	0.040838	0.04084
564896.65	4207642.72	0.01446	0.015429	0.01543
564876.8	4207628.71	0.014405	0.015388	0.01539
564858.13	4207614.7	0.014126	0.01512	0.01512
564838.29	4207611.2	0.013276	0.01422	0.01422
564807.94	4207600.7	0.012304	0.013226	0.01323
564777.59	4207600.7	0.011219	0.012095	0.01210
564749.58	4207603.03	0.010255	0.011075	0.01107
564726.23	4207605.37	0.00962	0.010402	0.01040
564701.72	4207615.87	0.008813	0.00953	0.00953
564681.88	4207624.04	0.008246	0.00892	0.00892
564649.2	4207633.38	0.007519	0.008141	0.00814
564630.52	4207640.38	0.00709	0.007678	0.00768
564609.51	4207650.89	0.006613	0.007155	0.00716
564589.67	4207655.56	0.006308	0.006832	0.00683
564563.99	4207668.4	0.005841	0.00632	0.00632
564538.31	4207678.9	0.005451	0.005889	0.00589
564517.3	4207687.07	0.005159	0.005571	0.00557
CONCUNIT ug/	m^3	0	0	0.00000
DEPUNIT g/m^	2	0	0	0.00000

Maximum Caner Risk
0.2
BAAQMD threshold of significance
0.3
Exceed thresholds?
No

Willow Ave Storage Facility

Tier IV Mitigation

Construction Annual DPM Emissions (as PM2.5 Exhaust)

Construction Scheduling	**2018**	
	13.6	hours/day
	7	days/week
	14	weeks/year
	1332.8	hours/year

Onsite Construction Area Source Size (m2): 22439 from AERMOD

Onsite Construction PM2.5 Emissions

2018	**Construction Activity**	**Onsite Annual DPM Exhaust Emissions (tons/year)**	**Onsite Annual DPM Exhaust Emissions (g/sec)**	**Onsite DPM Source Exhaust Emissions (g/m2-sec)**
	Site Preparation	1.860E-03	3.520E-04	1.569E-08
	Grading	7.700E-04	1.457E-04	6.494E-09
	Total	**2.630E-03**	**4.977E-04**	**2.218E-08**

Offsite Construction Vehicle PM2.5 Emissions

2018	**Construction Activity**	**Offsite Hauling Annual DPM Exhaust Emissions (tons/year)**	**Offsite Vendor Annual DPM Exhaust Emissions (tons/year)**	**Offsite Workers Annual DPM Exhaust Emissions (tons/year)**	
	Site Preparation	0.000E+00	0.000E+00	3.000E-05	
	Grading	0.000E+00	0.000E+00	1.000E-05	
	Total (tons/year)	**0.000E+00**	**0.000E+00**	**4.000E-05**	**4.000E-05**
	Trip Distance assumed in CalEEMod (mi)	20.0	7.3	10.8	
	Offsite Project Trip Distance Along Roadway Segment Project>Willow Ave>John Muir Pkwy (mi)	0.60	0.60	0.60	
	Offsite Project Emissions Along Roadway Segment Project>Willow Ave>John Muir Pkwy (tons/year)	**0.000E+00**	**0.000E+00**	**2.239E-06**	

Offsite Emissions Along Roadway Segment Analyzed	
Total Offsite Project Exhaust Emissions (tons/year)	**2.239E-06**
Total Offsite Project Exhaust Emissions (grams/sec)	**4.237E-07**

Onsite Exhaust Emissions (tons/year)	**2.630E-03**
Total Onsite Emissions (tons/year)	**2.630E-03**
Onsite Exhaust Emissions (g/m2-sec)	**2.218E-08**

Total PM@2.5 Exhaust (tons/year)	2.632E-03

Willow Ave Storage Facility

Tier IV Mitigation

Construction Annual DPM Emissions (as PM2.5 Exhaust)

Construction Scheduling	**2019**	
	13.6	hours/day
	7	days/week
	46	weeks/year
	4379.2	hours/year

Onsite Construction Area Source Size (m2): 22439.00

Onsite Construction PM2.5 Emissions

2019	**Construction Activity**	**Onsite Annual DPM Exhaust Emissions (tons/year)**	**Onsite Annual DPM Exhaust Emissions (g/sec)**	**Onsite DPM Source Exhaust Emissions (g/m2-sec)**
	Grading	2.180E-03	1.256E-04	5.596E-09
	Building Construction	4.340E-03	2.500E-04	1.114E-08
	Paving	8.800E-04	5.068E-05	2.259E-09
	Architectural Coating	1.800E-04	1.037E-05	4.620E-10
	Total	**7.580E-03**	**4.366E-04**	**1.946E-08**

Offsite Construction Vehicle PM2.5 Emissions

2019	**Construction Activity**	**Offsite Hauling Annual DPM Exhaust Emissions (tons/year)**	**Offsite Vendor Annual DPM Exhaust Emissions (tons/year)**	**Offsite Workers Annual DPM Exhaust Emissions (tons/year)**	
	Grading	0.000E+00	0.000E+00	3.000E-05	
	Building Construction	0.000E+00	3.340E-03	4.800E-04	
	Paving	0.000E+00	0.000E+00	3.000E-05	
	Architectural Coating	0.000E+00	0.000E+00	4.000E-05	
	Total (tons/year)	**0.000E+00**	**3.340E-03**	**5.800E-04**	**3.920E-03**
	Trip Distance assumed in CalEEMod (mi)	20.0	7.3	10.8	
	Offsite Project Trip Distance Project>Willow Ave>John Muir Pkwy (mi)	0.60	0.60	0.60	
	Offsite Project Emissions Project>Willow Ave>John Muir Pkwy (tons/year)	**0.000E+00**	**2.766E-04**	**3.246E-05**	

Emissions Along Roadway Segment	
Offsite Project Exhaust Emissions (tons/year)	**3.090E-04**
Offsite Project Exhaust Emissions (grams/sec)	**1.780E-05**
Offsite Project Fugitive Emissions (tons/year)	**0.000E+00**
Offsite Project Fugitive Emissions (grams/sec)	**0.000E+00**

Onsite Exhaust Emissions (tons/year)	**7.580E-03**
Total Onsite Emissions (tons/year)	**7.580E-03**
Onsite Exhaust Emissions (g/m2-sec)	**1.946E-08**

Total PM@2.5 Exhaust (tons/year)	7.889E-03
Total PM2.5 (tons/year)	**7.889E-03**

Willow Ave Storage Facility

2018 **Tier IV Mitigation** **At Sensitive Receptors**

Construction Annual DPM Emissions (as PM2.5 Exhaust)

Annual Average Onsite DPM Exhaust Emission Rate: 2.21805E-08
Annual Average Offsite DPM Exhaust Emission Rate: 4.23650E-07

X (m)	Y (m)	Onsite Annual DPM Exhaust w/Unit Emissions (ug/m3)	Onsite Annual DPM Exhaust w/Actual Emissions (ug/m3)	Offsite Annual DPM Exhaust w/Unit Emissions (ug/m3)	Offsite Annual DPM Exhaust w/Actual Emissions (ug/m3)	Total DPM (ug/m3)
565075.43	4207459.29	1.56868	0.00348	0.00004	1.69460E-06	0.00348
565374.04	4207297.22	1.11147	0.00247	0.00001	4.23650E-07	0.00247
565350.7	4207277.38	1.04941	0.00233	0.00001	4.23650E-07	0.00233
565325.02	4207271.54	1.06886	0.00237	0.00001	4.23650E-07	0.00237
565305.17	4207270.37	1.08011	0.00240	0.00001	4.23650E-07	0.00240
565273.66	4207262.2	0.99605	0.00221	0.00001	4.23650E-07	0.00221
565254.98	4207254.03	0.90341	0.00200	0.00001	4.23650E-07	0.00200
565231.64	4207249.36	0.8061	0.00179	0.00001	4.23650E-07	0.00179
565212.96	4207236.52	0.68951	0.00153	0.00001	4.23650E-07	0.00153
565183.78	4207233.02	0.57547	0.00128	0.00001	4.23650E-07	0.00128
565501.27	4207312.39	0.43397	0.00096	0.00001	4.23650E-07	0.00096
565516.44	4207325.23	0.43197	0.00096	0.00001	4.23650E-07	0.00096
565543.29	4207324.07	0.35225	0.00078	0.00001	4.23650E-07	0.00078
565372.87	4207269.21	0.91688	0.00203	0.00001	4.23650E-07	0.00203
565474.42	4207265.7	0.41709	0.00093	0.00001	4.23650E-07	0.00093
565222.3	4207670.73	1.15291	0.00256	0.00014	5.93110E-06	0.00256
565184.95	4207657.89	0.82263	0.00182	0.00014	5.93110E-06	0.00183
565236.31	4207708.08	1.04611	0.00232	0.00010	4.23650E-06	0.00232
565370.54	4207706.91	2.01093	0.00446	0.00004	1.69460E-06	0.00446
565399.72	4207696.41	2.20314	0.00489	0.00004	1.69460E-06	0.00489
565428.9	4207688.24	2.28553	0.00507	0.00003	1.27095E-06	0.00507
565151.1	4207652.05	0.68589	0.00152	0.00015	6.35475E-06	0.00153
565105.58	4207646.22	0.67052	0.00149	0.00016	6.77840E-06	0.00149
564896.65	4207642.72	0.35939	0.00080	0.00013	5.50745E-06	0.00080
564876.8	4207628.71	0.35874	0.00080	0.00015	6.35475E-06	0.00080
564858.13	4207614.7	0.35734	0.00079	0.00018	7.62570E-06	0.00080
564838.29	4207611.2	0.34017	0.00075	0.00018	7.62570E-06	0.00076
564807.94	4207600.7	0.32227	0.00071	0.00022	9.32030E-06	0.00072
564777.59	4207600.7	0.29748	0.00066	0.00024	1.01676E-05	0.00067
564749.58	4207603.03	0.27448	0.00061	0.00024	1.01676E-05	0.00062
564726.23	4207605.37	0.25871	0.00057	0.00024	1.01676E-05	0.00058
564701.72	4207615.87	0.23784	0.00053	0.00022	9.32030E-06	0.00054
564681.88	4207624.04	0.22303	0.00049	0.00021	8.89665E-06	0.00050
564649.2	4207633.38	0.2041	0.00045	0.00020	8.47300E-06	0.00046
564630.52	4207640.38	0.19286	0.00043	0.00019	8.04935E-06	0.00044
564609.51	4207650.89	0.18012	0.00040	0.00017	7.20205E-06	0.00041
564589.67	4207655.56	0.17212	0.00038	0.00017	7.20205E-06	0.00039
564563.99	4207668.4	0.15947	0.00035	0.00015	6.35475E-06	0.00036
564538.31	4207678.9	0.14898	0.00033	0.00013	5.50745E-06	0.00034
564517.3	4207687.07	0.14115	0.00031	0.00012	5.08380E-06	0.00032
CONCUNIT ug/	m^3	0	0.00000	0.00000	0.00000E+00	0.00000
DEPUNIT g/m^	2	0	0.00000	0.00000	0.00000E+00	0.00000

Willow Ave Storage Facility

2019 **Tier IV Mitigation** **at Sensitive Receptors**

Construction Annual DPM Emissions (as PM2.5 Exhaust)

Annual Average Onsite DPM Exhaust Emission Rate: 1.9456E-08 grams/m2/sec

Annual Average Offsite DPM Exhaust Emission Rate: 1.77977E-05 grams/sec

X (m)	Y (m)	Onsite Annual DPM Exhaust w/Unit Emissions (ug/m3)	Onsite Annual DPM Exhaust w/Actual Emissions (ug/m3)	Offsite Annual DPM Exhaust w/Unit Emissions (ug/m3)	Offsite Annual DPM Exhaust w/Actual Emissions (ug/m3)	Total DPM (ug/m3)
565075.43	4207459.29	1.56868	0.00305	0.00004	7.11909E-05	0.00312
565374.04	4207297.22	1.11147	0.00216	0.00001	1.77977E-05	0.00218
565350.7	4207277.38	1.04941	0.00204	0.00001	1.77977E-05	0.00206
565325.02	4207271.54	1.06886	0.00208	0.00001	1.77977E-05	0.00210
565305.17	4207270.37	1.08011	0.00210	0.00001	1.77977E-05	0.00212
565273.66	4207262.2	0.99605	0.00194	0.00001	1.77977E-05	0.00196
565254.98	4207254.03	0.90341	0.00176	0.00001	1.77977E-05	0.00178
565231.64	4207249.36	0.8061	0.00157	0.00001	1.77977E-05	0.00159
565212.96	4207236.52	0.68951	0.00134	0.00001	1.77977E-05	0.00136
565183.78	4207233.02	0.57547	0.00112	0.00001	1.77977E-05	0.00114
565501.27	4207312.39	0.43397	0.00084	0.00001	1.77977E-05	0.00086
565516.44	4207325.23	0.43197	0.00084	0.00001	1.77977E-05	0.00086
565543.29	4207324.07	0.35225	0.00069	0.00001	1.77977E-05	0.00070
565372.87	4207269.21	0.91688	0.00178	0.00001	1.77977E-05	0.00180
565474.42	4207265.7	0.41709	0.00081	0.00001	1.77977E-05	0.00083
565222.3	4207670.73	1.15291	0.00224	0.00014	2.49168E-04	0.00249
565184.95	4207657.89	0.82263	0.00160	0.00014	2.49168E-04	0.00185
565236.31	4207708.08	1.04611	0.00204	0.00010	1.77977E-04	0.00221
565370.54	4207706.91	2.01093	0.00391	0.00004	7.11909E-05	0.00398
565399.72	4207696.41	2.20314	0.00429	0.00004	7.11909E-05	0.00436
565428.9	4207688.24	2.28553	0.00445	0.00003	5.33932E-05	0.00450
565151.1	4207652.05	0.68589	0.00133	0.00015	2.66966E-04	0.00160
565105.58	4207646.22	0.67052	0.00130	0.00016	2.84764E-04	0.00159
564896.65	4207642.72	0.35939	0.00070	0.00013	2.31370E-04	0.00093
564876.8	4207628.71	0.35874	0.00070	0.00015	2.66966E-04	0.00096
564858.13	4207614.7	0.35734	0.00070	0.00018	3.20359E-04	0.00102
564838.29	4207611.2	0.34017	0.00066	0.00018	3.20359E-04	0.00098
564807.94	4207600.7	0.32227	0.00063	0.00022	3.91550E-04	0.00102
564777.59	4207600.7	0.29748	0.00058	0.00024	4.27145E-04	0.00101
564749.58	4207603.03	0.27448	0.00053	0.00024	4.27145E-04	0.00096
564726.23	4207605.37	0.25871	0.00050	0.00024	4.27145E-04	0.00093
564701.72	4207615.87	0.23784	0.00046	0.00022	3.91550E-04	0.00085
564681.88	4207624.04	0.22303	0.00043	0.00021	3.73752E-04	0.00081
564649.2	4207633.38	0.2041	0.00040	0.00020	3.55954E-04	0.00075
564630.52	4207640.38	0.19286	0.00038	0.00019	3.38157E-04	0.00071
564609.51	4207650.89	0.18012	0.00035	0.00017	3.02561E-04	0.00065
564589.67	4207655.56	0.17212	0.00033	0.00017	3.02561E-04	0.00064
564563.99	4207668.4	0.15947	0.00031	0.00015	2.66966E-04	0.00058
564538.31	4207678.9	0.14898	0.00029	0.00013	2.31370E-04	0.00052
564517.3	4207687.07	0.14115	0.00027	0.00012	2.13573E-04	0.00049
CONCUNIT ug/	m^3	0	0.00000	0.00000	0.00000E+00	0.00000
DEPUNIT g/m^	2	0	0.00000	0.00000	0.00000E+00	0.00000

Willow Ave Storage Facility

Cancer Risk Impacts from Construction at the Maximum Impacted Sensitive Receptor - Infant

Cancer Potency Factor: 1.1 $(mg/kg\text{-}day)^{-1}$

Averaging Period 25550 days

Year	Unit DPM Concentration (ug/m3)	Age Sensitivty Factor	Daily Breathing Rate (L/kg-day)	Time At Home Factor	Exposure Frequency (days/year)	Exposure Duration (years)	Unit Risk Factor $(ug/m3)^{-1}$
3rd Trimester	1	10	361	0.85	98	0.25	3.2
1	1	10	1090	0.85	98	1	39.1
2	1	10	1090	0.85	322	1	128.4

BAAQMD 2016. Air Toxics NSR Program Health Risk Assessment (HRA) Guidelines

Willow Ave Storage Facility

Tier IV Mitigation **at Sensitive Recptors**

Estimated Cancer Risks from Construction DPM - Infant Receptors

X (m)	Y (m)	InfantCancer Risk (3rd Trimester) 2018 (/million)	Infant Cancer Risk (year 1) 2018 (/million)	Infant Cancer Risk (year 2) 2019 (/million)	Total Cancer Risk (/million)
565075.43	4207459.29	0.011	0.136	0.401	0.54849
565374.04	4207297.22	0.008	0.096	0.280	0.38440
565350.7	4207277.38	0.008	0.091	0.265	0.36307
565325.02	4207271.54	0.008	0.093	0.269	0.36976
565305.17	4207270.37	0.008	0.094	0.272	0.37362
565273.66	4207262.2	0.007	0.086	0.251	0.34472
565254.98	4207254.03	0.006	0.078	0.228	0.31288
565231.64	4207249.36	0.006	0.070	0.204	0.27942
565212.96	4207236.52	0.005	0.060	0.175	0.23934
565183.78	4207233.02	0.004	0.050	0.146	0.20014
565501.27	4207312.39	0.003	0.038	0.111	0.15149
565516.44	4207325.23	0.003	0.037	0.110	0.15081
565543.29	4207324.07	0.003	0.031	0.090	0.12340
565372.87	4207269.21	0.007	0.080	0.231	0.31751
565474.42	4207265.7	0.003	0.036	0.107	0.14569
565222.3	4207670.73	0.008	0.100	0.320	0.42860
565184.95	4207657.89	0.006	0.072	0.238	0.31506
565236.31	4207708.08	0.008	0.091	0.284	0.38267
565370.54	4207706.91	0.014	0.174	0.512	0.70053
565399.72	4207696.41	0.016	0.191	0.560	0.76661
565428.9	4207688.24	0.016	0.198	0.578	0.79263
565151.1	4207652.05	0.005	0.060	0.206	0.27035
565105.58	4207646.22	0.005	0.058	0.204	0.26737
564896.65	4207642.72	0.003	0.031	0.120	0.15350
564876.8	4207628.71	0.003	0.031	0.124	0.15789
564858.13	4207614.7	0.003	0.031	0.130	0.16432
564838.29	4207611.2	0.002	0.030	0.126	0.15841
564807.94	4207600.7	0.002	0.028	0.131	0.16148
564777.59	4207600.7	0.002	0.026	0.129	0.15756
564749.58	4207603.03	0.002	0.024	0.123	0.14965
564726.23	4207605.37	0.002	0.023	0.120	0.14423
564701.72	4207615.87	0.002	0.021	0.110	0.13245
564681.88	4207624.04	0.002	0.020	0.104	0.12505
564649.2	4207633.38	0.001	0.018	0.097	0.11624
564630.52	4207640.38	0.001	0.017	0.092	0.11008
564609.51	4207650.89	0.001	0.016	0.084	0.10109
564589.67	4207655.56	0.001	0.015	0.082	0.09834
564563.99	4207668.4	0.001	0.014	0.074	0.08938
564538.31	4207678.9	0.001	0.013	0.067	0.08117
564517.3	4207687.07	0.001	0.012	0.063	0.07617
CONCUNIT ug	m^3	0.000	0.000	0.000	0.00000
DEPUNIT g/m	2	0.000	0.000	0.000	0.00000

Maximum Caner Risk
0.8

BAAQMD threshold of significance
10

Exceed thresholds?
No

Willow Ave Storage Facility

Tier IV Mitigation

Cancer Risk Impacts from Construction at the Maximum Impacted Sensitive Receptor - Child
UTM: (565046,4185977)

Cancer Potency Factor:	1.1	$(mg/kg\text{-}day)^{-1}$
Exposure Frequency	350	days/year
Averaging Period	25550	days

Year	DPM Concentration (ug/m3)	Age Sensitivty Factor	Daily Breathing Rate (L/kg-day)	Time At Home Factor	Exposure Duration (years)	Unit Risk Factor $(ug/m3)^{-1}$
1	1	3	572	0.73	1	18.9
2	1	3	572	0.73	1	18.9

BAAQMD 2016. Air Toxics NSR Program Health Risk Assessment (HRA) Guidelines

Willow Ave Storage Facility

Tier IV Mitigation **at Sensitive Receptors**

Estimated Cancer Risks from Construction DPM

X (m)	Y (m)	Child Cancer Risk (year 1) 2018 (/million)	Child Cancer Risk (year 2) 2019 (/million)	Total Cancer Risk (/million)
565075.43	4207459.29	0.066	0.059	0.12466
565374.04	4207297.22	0.047	0.041	0.08770
565350.7	4207277.38	0.044	0.039	0.08282
565325.02	4207271.54	0.045	0.040	0.08435
565305.17	4207270.37	0.045	0.040	0.08523
565273.66	4207262.2	0.042	0.037	0.07863
565254.98	4207254.03	0.038	0.034	0.07135
565231.64	4207249.36	0.034	0.030	0.06370
565212.96	4207236.52	0.029	0.026	0.05453
565183.78	4207233.02	0.024	0.021	0.04557
565501.27	4207312.39	0.018	0.016	0.03445
565516.44	4207325.23	0.018	0.016	0.03429
565543.29	4207324.07	0.015	0.013	0.02803
565372.87	4207269.21	0.038	0.034	0.07240
565474.42	4207265.7	0.017	0.016	0.03312
565222.3	4207670.73	0.048	0.047	0.09543
565184.95	4207657.89	0.035	0.035	0.06947
565236.31	4207708.08	0.044	0.042	0.08566
565370.54	4207706.91	0.084	0.075	0.15942
565399.72	4207696.41	0.092	0.082	0.17453
565428.9	4207688.24	0.096	0.085	0.18066
565151.1	4207652.05	0.029	0.030	0.05907
565105.58	4207646.22	0.028	0.030	0.05820
564896.65	4207642.72	0.015	0.018	0.03272
564876.8	4207628.71	0.015	0.018	0.03335
564858.13	4207614.7	0.015	0.019	0.03428
564838.29	4207611.2	0.014	0.019	0.03293
564807.94	4207600.7	0.014	0.019	0.03290
564777.59	4207600.7	0.013	0.019	0.03163
564749.58	4207603.03	0.012	0.018	0.02983
564726.23	4207605.37	0.011	0.018	0.02859
564701.72	4207615.87	0.010	0.016	0.02626
564681.88	4207624.04	0.010	0.015	0.02475
564649.2	4207633.38	0.009	0.014	0.02292
564630.52	4207640.38	0.008	0.013	0.02169
564609.51	4207650.89	0.008	0.012	0.02000
564589.67	4207655.56	0.007	0.012	0.01937
564563.99	4207668.4	0.007	0.011	0.01769
564538.31	4207678.9	0.006	0.010	0.01618
564517.3	4207687.07	0.006	0.009	0.01522
CONCUNIT ug	m^3	0.000	0.000	0.00000
DEPUNIT g/m	2	0.000	0.000	0.00000

Maximum Caner Risk
0.2
BAAQMD threshold of significance
10
Exceed thresholds?
No

Willow Ave Storage Facility

Tier IV Mitigation

Cancer Risk Impacts from Construction at the Maximum Impacted Sensitive Receptor - Adult

Cancer Potency Factor:	1.1	$(mg/kg\text{-}day)^{-1}$
Exposure Frequency	350	days/year
Averaging Period	25550	days

Year	DPM Concentration (ug/m3)	Age Sensitivty Factor	Daily Breathing Rate (L/kg-day)	Time At Home Factor	Exposure Duration (years)	Unit Risk Factor $(ug/m3)^{-1}$
1	1	1	261	0.72	1	2.8
2	1	1	261	0.72	1	2.8

BAAQMD 2016. Air Toxics NSR Program Health Risk Assessment (HRA) Guidelines

Willow Ave Storage Facility

Tier IV Mitigation **at Sensitive Receptors**

Estimated Cancer Risks from Construction DPM

X (m)	Y (m)	Adult Cancer Risk (year 1) 2018 (/million)	Adult Cancer Risk (year 2) 2019 (/million)	Total Cancer Risk (/million)
565075.43	4207459.29	0.010	0.009	0.01870
565374.04	4207297.22	0.007	0.006	0.01316
565350.7	4207277.38	0.007	0.006	0.01242
565325.02	4207271.54	0.007	0.006	0.01265
565305.17	4207270.37	0.007	0.006	0.01279
565273.66	4207262.2	0.006	0.006	0.01180
565254.98	4207254.03	0.006	0.005	0.01070
565231.64	4207249.36	0.005	0.004	0.00956
565212.96	4207236.52	0.004	0.004	0.00818
565183.78	4207233.02	0.004	0.003	0.00684
565501.27	4207312.39	0.003	0.002	0.00517
565516.44	4207325.23	0.003	0.002	0.00514
565543.29	4207324.07	0.002	0.002	0.00420
565372.87	4207269.21	0.006	0.005	0.01086
565474.42	4207265.7	0.003	0.002	0.00497
565222.3	4207670.73	0.007	0.007	0.01432
565184.95	4207657.89	0.005	0.005	0.01042
565236.31	4207708.08	0.007	0.006	0.01285
565370.54	4207706.91	0.013	0.011	0.02392
565399.72	4207696.41	0.014	0.012	0.02618
565428.9	4207688.24	0.014	0.013	0.02710
565151.1	4207652.05	0.004	0.005	0.00886
565105.58	4207646.22	0.004	0.005	0.00873
564896.65	4207642.72	0.002	0.003	0.00491
564876.8	4207628.71	0.002	0.003	0.00500
564858.13	4207614.7	0.002	0.003	0.00514
564838.29	4207611.2	0.002	0.003	0.00494
564807.94	4207600.7	0.002	0.003	0.00493
564777.59	4207600.7	0.002	0.003	0.00475
564749.58	4207603.03	0.002	0.003	0.00447
564726.23	4207605.37	0.002	0.003	0.00429
564701.72	4207615.87	0.002	0.002	0.00394
564681.88	4207624.04	0.001	0.002	0.00371
564649.2	4207633.38	0.001	0.002	0.00344
564630.52	4207640.38	0.001	0.002	0.00325
564609.51	4207650.89	0.001	0.002	0.00300
564589.67	4207655.56	0.001	0.002	0.00291
564563.99	4207668.4	0.001	0.002	0.00265
564538.31	4207678.9	0.001	0.001	0.00243
564517.3	4207687.07	0.001	0.001	0.00228
CONCUNIT ug	m^3	0.000	0.000	0.00000
DEPUNIT g/m	2	0.000	0.000	0.00000

Maximum Caner Risk
0.03
BAAQMD threshold of significance
10
Exceed thresholds?
No

Willow Ave Storage Facility

Tier IV Mitigation
at Sensitive Receptors

Chronic Non-Cancer Hazard Index

Reference Exposure Level (REL) for DPM: 5 ug/m3

CNCHI = DPM/REL

X (m)	Y (m)	2018 DPM (ug/m3)	2019 DPM (ug/m3)	Max DPM (ug/m3)	CNCHI
565075.43	4207459.29	0.003481	0.003123	0.003481	0.00070
565374.04	4207297.22	0.002466	0.00218	0.002466	0.00049
565350.7	4207277.38	0.002328	0.00206	0.002328	0.00047
565325.02	4207271.54	0.002371	0.002097	0.002371	0.00047
565305.17	4207270.37	0.002396	0.002119	0.002396	0.00048
565273.66	4207262.2	0.00221	0.001956	0.00221	0.00044
565254.98	4207254.03	0.002004	0.001775	0.002004	0.00040
565231.64	4207249.36	0.001788	0.001586	0.001788	0.00036
565212.96	4207236.52	0.00153	0.001359	0.00153	0.00031
565183.78	4207233.02	0.001277	0.001137	0.001277	0.00026
565501.27	4207312.39	0.000963	0.000862	0.000963	0.00019
565516.44	4207325.23	0.000959	0.000858	0.000959	0.00019
565543.29	4207324.07	0.000782	0.000703	0.000782	0.00016
565372.87	4207269.21	0.002034	0.001802	0.002034	0.00041
565474.42	4207265.7	0.000926	0.000829	0.000926	0.00019
565222.3	4207670.73	0.002563	0.002492	0.002563	0.00051
565184.95	4207657.89	0.001831	0.00185	0.00185	0.00037
565236.31	4207708.08	0.002325	0.002213	0.002325	0.00046
565370.54	4207706.91	0.004462	0.003984	0.004462	0.00089
565399.72	4207696.41	0.004888	0.004358	0.004888	0.00098
565428.9	4207688.24	0.005071	0.0045	0.005071	0.00101
565151.1	4207652.05	0.001528	0.001601	0.001601	0.00032
565105.58	4207646.22	0.001494	0.001589	0.001589	0.00032
564896.65	4207642.72	0.000803	0.000931	0.000931	0.00019
564876.8	4207628.71	0.000802	0.000965	0.000965	0.00019
564858.13	4207614.7	0.0008	0.001016	0.001016	0.00020
564838.29	4207611.2	0.000762	0.000982	0.000982	0.00020
564807.94	4207600.7	0.000724	0.001019	0.001019	0.00020
564777.59	4207600.7	0.00067	0.001006	0.001006	0.00020
564749.58	4207603.03	0.000619	0.000961	0.000961	0.00019
564726.23	4207605.37	0.000584	0.00093	0.00093	0.00019
564701.72	4207615.87	0.000537	0.000854	0.000854	0.00017
564681.88	4207624.04	0.000504	0.000808	0.000808	0.00016
564649.2	4207633.38	0.000461	0.000753	0.000753	0.00015
564630.52	4207640.38	0.000436	0.000713	0.000713	0.00014
564609.51	4207650.89	0.000407	0.000653	0.000653	0.00013
564589.67	4207655.56	0.000389	0.000637	0.000637	0.00013
564563.99	4207668.4	0.00036	0.000577	0.000577	0.00012
564538.31	4207678.9	0.000336	0.000521	0.000521	0.00010
564517.3	4207687.07	0.000318	0.000488	0.000488	0.00010
CONCUNIT ug/ m^3		0	0	0	0.00000
DEPUNIT g/m^	2	0	0	0	0.00000

Maximum Caner Risk
0.00

BAAQMD threshold of significance
1

Exceed thresholds?
No

Willow Ave Storage Facility

Tier IV Mitigation
at Sensitive Receptors

Annual Average PM2.5 (Exhaust + Fugitive Dust)

X (m)	Y (m)	2018 PM2.5 (ug/m3)	2019 PM2.5 (ug/m3)	Max PM2.5 (ug/m3)
565075.43	4207459.29	0.003481	0.003123	0.00348
565374.04	4207297.22	0.002466	0.00218	0.00247
565350.7	4207277.38	0.002328	0.00206	0.00233
565325.02	4207271.54	0.002371	0.002097	0.00237
565305.17	4207270.37	0.002396	0.002119	0.00240
565273.66	4207262.2	0.00221	0.001956	0.00221
565254.98	4207254.03	0.002004	0.001775	0.00200
565231.64	4207249.36	0.001788	0.001586	0.00179
565212.96	4207236.52	0.00153	0.001359	0.00153
565183.78	4207233.02	0.001277	0.001137	0.00128
565501.27	4207312.39	0.000963	0.000862	0.00096
565516.44	4207325.23	0.000959	0.000858	0.00096
565543.29	4207324.07	0.000782	0.000703	0.00078
565372.87	4207269.21	0.002034	0.001802	0.00203
565474.42	4207265.7	0.000926	0.000829	0.00093
565222.3	4207670.73	0.002563	0.002492	0.00256
565184.95	4207657.89	0.001831	0.00185	0.00185
565236.31	4207708.08	0.002325	0.002213	0.00232
565370.54	4207706.91	0.004462	0.003984	0.00446
565399.72	4207696.41	0.004888	0.004358	0.00489
565428.9	4207688.24	0.005071	0.0045	0.00507
565151.1	4207652.05	0.001528	0.001601	0.00160
565105.58	4207646.22	0.001494	0.001589	0.00159
564896.65	4207642.72	0.000803	0.000931	0.00093
564876.8	4207628.71	0.000802	0.000965	0.00096
564858.13	4207614.7	0.0008	0.001016	0.00102
564838.29	4207611.2	0.000762	0.000982	0.00098
564807.94	4207600.7	0.000724	0.001019	0.00102
564777.59	4207600.7	0.00067	0.001006	0.00101
564749.58	4207603.03	0.000619	0.000961	0.00096
564726.23	4207605.37	0.000584	0.00093	0.00093
564701.72	4207615.87	0.000537	0.000854	0.00085
564681.88	4207624.04	0.000504	0.000808	0.00081
564649.2	4207633.38	0.000461	0.000753	0.00075
564630.52	4207640.38	0.000436	0.000713	0.00071
564609.51	4207650.89	0.000407	0.000653	0.00065
564589.67	4207655.56	0.000389	0.000637	0.00064
564563.99	4207668.4	0.00036	0.000577	0.00058
564538.31	4207678.9	0.000336	0.000521	0.00052
564517.3	4207687.07	0.000318	0.000488	0.00049
CONCUNIT ug/	m^3	0	0	0.00000
DEPUNIT g/m^	2	0	0	0.00000

Maximum Caner Risk
0.01
BAAQMD threshold of significance
0.3
Exceed thresholds?
No

Willow Ave Service Commercial

Tier IV Mitigation

Construction Annual DPM Emissions (as PM2.5 Exhaust)

Construction Scheduling **2018**

13.6	hours/day	Client Bryan Wenter wants the working hour be consistent with Noise MM.
7	days/week	
14	weeks/year	
1332.8	hours/year	

Onsite Construction Area Source Size (m2): 15372 from AERMOD

Onsite Construction PM2.5 Emissions

2018

Construction Activity	Onsite Annual DPM Exhaust Emissions (tons/year)	Onsite Annual DPM Exhaust Emissions (g/sec)	Onsite DPM Source Exhaust Emissions (g/m2-sec)
Site Preparation	1.860E-03	3.520E-04	2.290E-08
Grading	7.700E-04	1.457E-04	9.479E-09
Total	**2.630E-03**	**4.977E-04**	**3.238E-08**

Offsite Construction Vehicle PM2.5 Emissions

2018

Construction Activity	Offsite Hauling Annual DPM Exhaust Emissions (tons/year)	Offsite Vendor Annual DPM Exhaust Emissions (tons/year)	Offsite Workers Annual DPM Exhaust Emissions (tons/year)	
Site Preparation	0.000E+00	0.000E+00	3.000E-05	
Grading	3.000E-05	0.000E+00	1.000E-05	
Total (tons/year)	**3.000E-05**	**0.000E+00**	**4.000E-05**	**7.000E-05**
Trip Distance assumed in CalEEMod (mi)	20.0	7.3	10.8	
Offsite Project Trip Distance Along Roadway Segment Project>Willow Ave>John Muir Pkwy (mi)	0.60	0.60	0.60	
Offsite Project Emissions Along Roadway Segment Project>Willow Ave>John Muir Pkwy (tons/year)	**9.067E-07**	**0.000E+00**	**2.239E-06**	

Offsite Emissions Along Roadway Segment Analyzed	
Total Offsite Project Exhaust Emissions (tons/year)	**3.145E-06**
Total Offsite Project Exhaust Emissions (grams/sec)	**5.952E-07**

Onsite Exhaust Emissions (tons/year)	**2.630E-03**
Total Onsite Emissions (tons/year)	**2.630E-03**
Onsite Exhaust Emissions (g/m2-sec)	**3.238E-08**

Total PM@2.5 Exhaust (tons/year)	2.633E-03

Willow Ave Service Commercial

Tier IV Mitigation

Construction Annual DPM Emissions (as PM2.5 Exhaust)

Construction Scheduling	**2019**	
	13.6	hours/day
	7	days/week
	39	weeks/year
	3712.8	hours/year

Onsite Construction Area Source Size (m2): 15372.00

Onsite Construction PM2.5 Emissions

2019	**Construction Activity**	**Onsite Annual DPM Exhaust Emissions (tons/year)**	**Onsite Annual DPM Exhaust Emissions (g/sec)**	**Onsite DPM Source Exhaust Emissions (g/m2-sec)**
	Grading	2.150E-03	1.461E-04	9.501E-09
	Building Construction	3.100E-03	2.106E-04	1.370E-08
	Paving	8.800E-04	5.978E-05	3.889E-09
	Architectural Coating	6.000E-05	4.076E-06	2.652E-10
	Total	**6.190E-03**	**4.205E-04**	**2.736E-08**

Offsite Construction Vehicle PM2.5 Emissions

2019	**Construction Activity**	**Offsite Hauling Annual DPM Exhaust Emissions (tons/year)**	**Offsite Vendor Annual DPM Exhaust Emissions (tons/year)**	**Offsite Workers Annual DPM Exhaust Emissions (tons/year)**	
	Grading	7.000E-05	0.000E+00	3.000E-05	
	Building Construction	0.000E+00	1.500E-03	2.000E-04	
	Paving	0.000E+00	0.000E+00	3.000E-05	
	Architectural Coating	0.000E+00	0.000E+00	1.000E-05	
	Total (tons/year)	**7.000E-05**	**1.500E-03**	**2.700E-04**	**1.840E-03**
	Trip Distance assumed in CalEEMod (mi)	20.0	7.3	10.8	
	Offsite Project Trip Distance Project>Willow Ave>John Muir Pkwy (mi)	0.60	0.60	0.60	
	Offsite Project Emissions Project>Willow Ave>John Muir Pkwy (tons/year)	**2.116E-06**	**1.242E-04**	**1.511E-05**	

Emissions Along Roadway Segment	
Offsite Project Exhaust Emissions (tons/year)	**1.414E-04**
Offsite Project Exhaust Emissions (grams/sec)	**9.608E-06**
Offsite Project Fugitive Emissions (tons/year)	**0.000E+00**
Offsite Project Fugitive Emissions (grams/sec)	**0.000E+00**

Onsite Exhaust Emissions (tons/year)	**6.190E-03**
Total Onsite Emissions (tons/year)	**6.190E-03**
Onsite Exhaust Emissions (g/m2-sec)	**2.736E-08**

Total PM@2.5 Exhaust (tons/year)	6.331E-03
Total PM2.5 (tons/year)	**6.331E-03**

Willow Ave Service Commercial

2018 **Tier IV Mitigation** **At Sensitive Receptors**

Construction Annual DPM Emissions (as PM2.5 Exhaust)

Annual Average Onsite DPM Exhaust Emission Rate: 3.23775E-08
Annual Average Offsite DPM Exhaust Emission Rate: 5.95228E-07

X (m)	Y (m)	Onsite Annual DPM Exhaust w/Unit Emissions (ug/m3)	Onsite Annual DPM Exhaust w/Actual Emissions (ug/m3)	Offsite Annual DPM Exhaust w/Unit Emissions (ug/m3)	Offsite Annual DPM Exhaust w/Actual Emissions (ug/m3)	Total DPM (ug/m3)
565075.43	4207459.29	3.7009	0.01198	0.00004	2.38091E-06	0.01198
565374.04	4207297.22	0.44195	0.00143	0.00001	5.95228E-07	0.00143
565350.7	4207277.38	0.40339	0.00131	0.00001	5.95228E-07	0.00131
565325.02	4207271.54	0.47282	0.00153	0.00001	5.95228E-07	0.00153
565305.17	4207270.37	0.5309	0.00172	0.00001	5.95228E-07	0.00172
565273.66	4207262.2	0.62483	0.00202	0.00001	5.95228E-07	0.00202
565254.98	4207254.03	0.67107	0.00217	0.00001	5.95228E-07	0.00217
565231.64	4207249.36	0.75693	0.00245	0.00001	5.95228E-07	0.00245
565212.96	4207236.52	0.7601	0.00246	0.00001	5.95228E-07	0.00246
565183.78	4207233.02	0.84604	0.00274	0.00001	5.95228E-07	0.00274
565501.27	4207312.39	0.28611	0.00093	0.00001	5.95228E-07	0.00093
565516.44	4207325.23	0.28943	0.00094	0.00001	5.95228E-07	0.00094
565543.29	4207324.07	0.24693	0.00080	0.00001	5.95228E-07	0.00080
565372.87	4207269.21	0.34369	0.00111	0.00001	5.95228E-07	0.00111
565474.42	4207265.7	0.23106	0.00075	0.00001	5.95228E-07	0.00075
565222.3	4207670.73	1.09623	0.00355	0.00014	8.33320E-06	0.00356
565184.95	4207657.89	1.02905	0.00333	0.00014	8.33320E-06	0.00334
565236.31	4207708.08	0.9166	0.00297	0.00010	5.95228E-06	0.00297
565370.54	4207706.91	0.73374	0.00238	0.00004	2.38091E-06	0.00238
565399.72	4207696.41	0.66359	0.00215	0.00004	2.38091E-06	0.00215
565428.9	4207688.24	0.5875	0.00190	0.00003	1.78569E-06	0.00190
565151.1	4207652.05	0.92822	0.00301	0.00015	8.92843E-06	0.00301
565105.58	4207646.22	0.77058	0.00249	0.00016	9.52366E-06	0.00250
564896.65	4207642.72	0.28986	0.00094	0.00013	7.73797E-06	0.00095
564876.8	4207628.71	0.28873	0.00093	0.00015	8.92843E-06	0.00094
564858.13	4207614.7	0.2831	0.00092	0.00018	1.07141E-05	0.00093
564838.29	4207611.2	0.26605	0.00086	0.00018	1.07141E-05	0.00087
564807.94	4207600.7	0.24651	0.00080	0.00022	1.30950E-05	0.00081
564777.59	4207600.7	0.22472	0.00073	0.00024	1.42855E-05	0.00074
564749.58	4207603.03	0.20539	0.00067	0.00024	1.42855E-05	0.00068
564726.23	4207605.37	0.19265	0.00062	0.00024	1.42855E-05	0.00064
564701.72	4207615.87	0.17649	0.00057	0.00022	1.30950E-05	0.00058
564681.88	4207624.04	0.16513	0.00053	0.00021	1.24998E-05	0.00055
564649.2	4207633.38	0.15056	0.00049	0.00020	1.19046E-05	0.00050
564630.52	4207640.38	0.14197	0.00046	0.00019	1.13093E-05	0.00047
564609.51	4207650.89	0.13243	0.00043	0.00017	1.01189E-05	0.00044
564589.67	4207655.56	0.12631	0.00041	0.00017	1.01189E-05	0.00042
564563.99	4207668.4	0.11698	0.00038	0.00015	8.92843E-06	0.00039
564538.31	4207678.9	0.10917	0.00035	0.00013	7.73797E-06	0.00036
564517.3	4207687.07	0.10333	0.00033	0.00012	7.14274E-06	0.00034
CONCUNIT ug/	m^3	0	0.00000	0.00000	0.00000E+00	0.00000
DEPUNIT g/m^	2	0	0.00000	0.00000	0.00000E+00	0.00000

Willow Ave Service Commercial

2019 **Tier IV Mitigation** **at Sensitive Receptors**

Construction Annual DPM Emissions (as PM2.5 Exhaust)

Annual Average Onsite DPM Exhaust Emission Rate: 2.73553E-08 grams/m2/sec

Annual Average Offsite DPM Exhaust Emission Rate: 9.60754E-06 grams/sec

X (m)	Y (m)	Onsite Annual DPM Exhaust w/Unit Emissions (ug/m3)	Onsite Annual DPM Exhaust w/Actual Emissions (ug/m3)	Offsite Annual DPM Exhaust w/Unit Emissions (ug/m3)	Offsite Annual DPM Exhaust w/Actual Emissions (ug/m3)	Total DPM (ug/m3)
565075.43	4207459.29	3.7009	0.01012	0.00004	3.84302E-05	0.01016
565374.04	4207297.22	0.44195	0.00121	0.00001	9.60754E-06	0.00122
565350.7	4207277.38	0.40339	0.00110	0.00001	9.60754E-06	0.00111
565325.02	4207271.54	0.47282	0.00129	0.00001	9.60754E-06	0.00130
565305.17	4207270.37	0.5309	0.00145	0.00001	9.60754E-06	0.00146
565273.66	4207262.2	0.62483	0.00171	0.00001	9.60754E-06	0.00172
565254.98	4207254.03	0.67107	0.00184	0.00001	9.60754E-06	0.00185
565231.64	4207249.36	0.75693	0.00207	0.00001	9.60754E-06	0.00208
565212.96	4207236.52	0.7601	0.00208	0.00001	9.60754E-06	0.00209
565183.78	4207233.02	0.84604	0.00231	0.00001	9.60754E-06	0.00232
565501.27	4207312.39	0.28611	0.00078	0.00001	9.60754E-06	0.00079
565516.44	4207325.23	0.28943	0.00079	0.00001	9.60754E-06	0.00080
565543.29	4207324.07	0.24693	0.00068	0.00001	9.60754E-06	0.00069
565372.87	4207269.21	0.34369	0.00094	0.00001	9.60754E-06	0.00095
565474.42	4207265.7	0.23106	0.00063	0.00001	9.60754E-06	0.00064
565222.3	4207670.73	1.09623	0.00300	0.00014	1.34506E-04	0.00313
565184.95	4207657.89	1.02905	0.00282	0.00014	1.34506E-04	0.00295
565236.31	4207708.08	0.9166	0.00251	0.00010	9.60754E-05	0.00260
565370.54	4207706.91	0.73374	0.00201	0.00004	3.84302E-05	0.00205
565399.72	4207696.41	0.66359	0.00182	0.00004	3.84302E-05	0.00185
565428.9	4207688.24	0.5875	0.00161	0.00003	2.88226E-05	0.00164
565151.1	4207652.05	0.92822	0.00254	0.00015	1.44113E-04	0.00268
565105.58	4207646.22	0.77058	0.00211	0.00016	1.53721E-04	0.00226
564896.65	4207642.72	0.28986	0.00079	0.00013	1.24898E-04	0.00092
564876.8	4207628.71	0.28873	0.00079	0.00015	1.44113E-04	0.00093
564858.13	4207614.7	0.2831	0.00077	0.00018	1.72936E-04	0.00095
564838.29	4207611.2	0.26605	0.00073	0.00018	1.72936E-04	0.00090
564807.94	4207600.7	0.24651	0.00067	0.00022	2.11366E-04	0.00089
564777.59	4207600.7	0.22472	0.00061	0.00024	2.30581E-04	0.00085
564749.58	4207603.03	0.20539	0.00056	0.00024	2.30581E-04	0.00079
564726.23	4207605.37	0.19265	0.00053	0.00024	2.30581E-04	0.00076
564701.72	4207615.87	0.17649	0.00048	0.00022	2.11366E-04	0.00069
564681.88	4207624.04	0.16513	0.00045	0.00021	2.01758E-04	0.00065
564649.2	4207633.38	0.15056	0.00041	0.00020	1.92151E-04	0.00060
564630.52	4207640.38	0.14197	0.00039	0.00019	1.82543E-04	0.00057
564609.51	4207650.89	0.13243	0.00036	0.00017	1.63328E-04	0.00053
564589.67	4207655.56	0.12631	0.00035	0.00017	1.63328E-04	0.00051
564563.99	4207668.4	0.11698	0.00032	0.00015	1.44113E-04	0.00046
564538.31	4207678.9	0.10917	0.00030	0.00013	1.24898E-04	0.00042
564517.3	4207687.07	0.10333	0.00028	0.00012	1.15290E-04	0.00040
CONCUNIT ug/	m^3	0	0.00000	0.00000	0.00000E+00	0.00000
DEPUNIT g/m^	2	0	0.00000	0.00000	0.00000E+00	0.00000

Willow Ave Service Commercial

Cancer Risk Impacts from Construction at the Maximum Impacted Sensitive Receptor - Infant

Cancer Potency Factor:	1.1	$(mg/kg\text{-}day)^{-1}$
Exposure Frequency	270	days/year
Averaging Period	25550	days

Year	Unit DPM Concentration (ug/m3)	Age Sensitivty Factor	Daily Breathing Rate (L/kg-day)	Time At Home Factor	Exposure Frequency (days/year)	Exposure Duration (years)	Unit Risk Factor $(ug/m3)^{-1}$
3rd Trimester	1	10	361	0.85	98	0.25	3.2
1	1	10	1090	0.85	98	1	39.1
2	1	10	1090	0.85	273	1	108.9

BAAQMD 2016. Air Toxics NSR Program Health Risk Assessment (HRA) Guidelines

Willow Ave Service Commercial **Tier IV Mitigation** **at Sensitive Recptors**

Estimated Cancer Risks from Construction DPM - Infant Receptors

X (m)	Y (m)	InfantCancer Risk (3rd Trimester) 2018 (/million)	Infant Cancer Risk (year 1) 2018 (/million)	Infant Cancer Risk (year 2) 2019 (/million)	Total Cancer Risk (/million)
565075.43	4207459.29	0.039	0.469	1.107	1.61393
565374.04	4207297.22	0.005	0.056	0.133	0.19329
565350.7	4207277.38	0.004	0.051	0.121	0.17652
565325.02	4207271.54	0.005	0.060	0.142	0.20672
565305.17	4207270.37	0.006	0.067	0.159	0.23198
565273.66	4207262.2	0.007	0.079	0.187	0.27283
565254.98	4207254.03	0.007	0.085	0.201	0.29294
565231.64	4207249.36	0.008	0.096	0.227	0.33028
565212.96	4207236.52	0.008	0.096	0.227	0.33166
565183.78	4207233.02	0.009	0.107	0.253	0.36904
565501.27	4207312.39	0.003	0.036	0.086	0.12551
565516.44	4207325.23	0.003	0.037	0.087	0.12695
565543.29	4207324.07	0.003	0.031	0.075	0.10847
565372.87	4207269.21	0.004	0.044	0.103	0.15055
565474.42	4207265.7	0.002	0.029	0.070	0.10157
565222.3	4207670.73	0.012	0.139	0.341	0.49179
565184.95	4207657.89	0.011	0.131	0.321	0.46257
565236.31	4207708.08	0.010	0.116	0.284	0.40937
565370.54	4207706.91	0.008	0.093	0.223	0.32341
565399.72	4207696.41	0.007	0.084	0.202	0.29290
565428.9	4207688.24	0.006	0.074	0.178	0.25874
565151.1	4207652.05	0.010	0.118	0.292	0.41978
565105.58	4207646.22	0.008	0.098	0.246	0.35229
564896.65	4207642.72	0.003	0.037	0.100	0.14000
564876.8	4207628.71	0.003	0.037	0.102	0.14165
564858.13	4207614.7	0.003	0.036	0.103	0.14241
564838.29	4207611.2	0.003	0.034	0.098	0.13500
564807.94	4207600.7	0.003	0.032	0.096	0.13079
564777.59	4207600.7	0.002	0.029	0.092	0.12345
564749.58	4207603.03	0.002	0.027	0.086	0.11504
564726.23	4207605.37	0.002	0.025	0.082	0.10950
564701.72	4207615.87	0.002	0.023	0.076	0.10033
564681.88	4207624.04	0.002	0.021	0.071	0.09432
564649.2	4207633.38	0.002	0.020	0.066	0.08691
564630.52	4207640.38	0.002	0.018	0.062	0.08210
564609.51	4207650.89	0.001	0.017	0.057	0.07581
564589.67	4207655.56	0.001	0.016	0.055	0.07315
564563.99	4207668.4	0.001	0.015	0.051	0.06695
564538.31	4207678.9	0.001	0.014	0.046	0.06141
564517.3	4207687.07	0.001	0.013	0.043	0.05780
CONCUNIT ug	m^3	0.000	0.000	0.000	0.00000
DEPUNIT g/m	2	0.000	0.000	0.000	0.00000

Maximum Caner Risk
1.6

BAAQMD threshold of significance
10

Exceed thresholds?
No

Willow Ave Service Commercial

Tier IV Mitigation

Cancer Risk Impacts from Construction at the Maximum Impacted Sensitive Receptor - Child
UTM: (565046,4185977)

Cancer Potency Factor:	1.1	$(mg/kg\text{-}day)^{-1}$
Exposure Frequency	350	days/year
Averaging Period	25550	days

Year	DPM Concentration (ug/m3)	Age Sensitivty Factor	Daily Breathing Rate (L/kg-day)	Time At Home Factor	Exposure Duration (years)	Unit Risk Factor $(ug/m3)^{-1}$
1	1	3	572	0.73	1	18.9
2	1	3	572	0.73	1	18.9

BAAQMD 2016. Air Toxics NSR Program Health Risk Assessment (HRA) Guidelines

Willow Ave Service Commercial

at Sensitive Receptors

Estimated Cancer Risks from Construction DPM

X (m)	Y (m)	Child Cancer Risk (year 1) 2017 (/million)	Child Cancer Risk (year 2) 2017 (/million)	Total Cancer Risk (/million)
565075.43	4207459.29	0.226	0.192	0.41805
565374.04	4207297.22	0.027	0.023	0.05002
565350.7	4207277.38	0.025	0.021	0.04568
565325.02	4207271.54	0.029	0.025	0.05350
565305.17	4207270.37	0.032	0.028	0.06005
565273.66	4207262.2	0.038	0.032	0.07064
565254.98	4207254.03	0.041	0.035	0.07586
565231.64	4207249.36	0.046	0.039	0.08554
565212.96	4207236.52	0.046	0.039	0.08590
565183.78	4207233.02	0.052	0.044	0.09559
565501.27	4207312.39	0.017	0.015	0.03245
565516.44	4207325.23	0.018	0.015	0.03283
565543.29	4207324.07	0.015	0.013	0.02803
565372.87	4207269.21	0.021	0.018	0.03894
565474.42	4207265.7	0.014	0.012	0.02625
565222.3	4207670.73	0.067	0.059	0.12630
565184.95	4207657.89	0.063	0.056	0.11872
565236.31	4207708.08	0.056	0.049	0.10527
565370.54	4207706.91	0.045	0.039	0.08350
565399.72	4207696.41	0.041	0.035	0.07559
565428.9	4207688.24	0.036	0.031	0.06682
565151.1	4207652.05	0.057	0.051	0.10755
565105.58	4207646.22	0.047	0.043	0.08997
564896.65	4207642.72	0.018	0.017	0.03519
564876.8	4207628.71	0.018	0.018	0.03544
564858.13	4207614.7	0.018	0.018	0.03539
564838.29	4207611.2	0.016	0.017	0.03346
564807.94	4207600.7	0.015	0.017	0.03203
564777.59	4207600.7	0.014	0.016	0.02996
564749.58	4207603.03	0.013	0.015	0.02778
564726.23	4207605.37	0.012	0.014	0.02634
564701.72	4207615.87	0.011	0.013	0.02414
564681.88	4207624.04	0.010	0.012	0.02266
564649.2	4207633.38	0.009	0.011	0.02083
564630.52	4207640.38	0.009	0.011	0.01967
564609.51	4207650.89	0.008	0.010	0.01821
564589.67	4207655.56	0.008	0.010	0.01752
564563.99	4207668.4	0.007	0.009	0.01608
564538.31	4207678.9	0.007	0.008	0.01481
564517.3	4207687.07	0.006	0.008	0.01396
CONCUNIT ug	m^3	0.000	0.000	0.00000
DEPUNIT g/m	2	0.000	0.000	0.00000

Maximum Caner Risk
0.4
BAAQMD threshold of significance
10
Exceed thresholds?
No

Willow Ave Service Commercial

Tier IV Mitigation

Cancer Risk Impacts from Construction at the Maximum Impacted Sensitive Receptor - Adult

Cancer Potency Factor:	1.1	$(mg/kg\text{-}day)^{-1}$
Exposure Frequency	350	days/year
Averaging Period	25550	days

Year	DPM Concentration (ug/m3)	Age Sensitivty Factor	Daily Breathing Rate (L/kg-day)	Time At Home Factor	Exposure Duration (years)	Unit Risk Factor $(ug/m3)^{-1}$
1	1	1	261	0.72	1	2.8
2	1	1	261	0.72	1	2.8

BAAQMD 2016. Air Toxics NSR Program Health Risk Assessment (HRA) Guidelines

Willow Ave Service Commercial

at Sensitive Receptors

Estimated Cancer Risks from Construction DPM

X (m)	Y (m)	Adult Cancer Risk (year 1) 2018 (/million)	Adult Cancer Risk (year 2) 2019 (/million)	Total Cancer Risk (/million)
565075.43	4207459.29	0.034	0.029	0.06271
565374.04	4207297.22	0.004	0.003	0.00750
565350.7	4207277.38	0.004	0.003	0.00685
565325.02	4207271.54	0.004	0.004	0.00803
565305.17	4207270.37	0.005	0.004	0.00901
565273.66	4207262.2	0.006	0.005	0.01060
565254.98	4207254.03	0.006	0.005	0.01138
565231.64	4207249.36	0.007	0.006	0.01283
565212.96	4207236.52	0.007	0.006	0.01289
565183.78	4207233.02	0.008	0.007	0.01434
565501.27	4207312.39	0.003	0.002	0.00487
565516.44	4207325.23	0.003	0.002	0.00492
565543.29	4207324.07	0.002	0.002	0.00421
565372.87	4207269.21	0.003	0.003	0.00584
565474.42	4207265.7	0.002	0.002	0.00394
565222.3	4207670.73	0.010	0.009	0.01895
565184.95	4207657.89	0.009	0.008	0.01781
565236.31	4207708.08	0.008	0.007	0.01579
565370.54	4207706.91	0.007	0.006	0.01253
565399.72	4207696.41	0.006	0.005	0.01134
565428.9	4207688.24	0.005	0.005	0.01002
565151.1	4207652.05	0.009	0.008	0.01613
565105.58	4207646.22	0.007	0.006	0.01350
564896.65	4207642.72	0.003	0.003	0.00528
564876.8	4207628.71	0.003	0.003	0.00532
564858.13	4207614.7	0.003	0.003	0.00531
564838.29	4207611.2	0.002	0.003	0.00502
564807.94	4207600.7	0.002	0.003	0.00481
564777.59	4207600.7	0.002	0.002	0.00449
564749.58	4207603.03	0.002	0.002	0.00417
564726.23	4207605.37	0.002	0.002	0.00395
564701.72	4207615.87	0.002	0.002	0.00362
564681.88	4207624.04	0.002	0.002	0.00340
564649.2	4207633.38	0.001	0.002	0.00312
564630.52	4207640.38	0.001	0.002	0.00295
564609.51	4207650.89	0.001	0.001	0.00273
564589.67	4207655.56	0.001	0.001	0.00263
564563.99	4207668.4	0.001	0.001	0.00241
564538.31	4207678.9	0.001	0.001	0.00222
564517.3	4207687.07	0.001	0.001	0.00209
CONCUNIT ug	m^3	0.000	0.000	0.00000
DEPUNIT g/m	2	0.000	0.000	0.00000

Maximum Caner Risk

0.1

BAAQMD threshold of significance

10

Exceed thresholds?

No

Willow Ave Service Commercial

Tier IV Mitigation
at Sensitive Receptors

Chronic Non-Cancer Hazard Index

Reference Exposure Level (REL) for DPM: 5 ug/m3

CNCHI = DPM/REL

X (m)	Y (m)	2018 DPM (ug/m3)	2019 DPM (ug/m3)	Max DPM (ug/m3)	CNCHI
565075.43	4207459.29	0.011985	0.010162	0.011985	0.00240
565374.04	4207297.22	0.001432	0.001219	0.001432	0.00029
565350.7	4207277.38	0.001307	0.001113	0.001307	0.00026
565325.02	4207271.54	0.001531	0.001303	0.001531	0.00031
565305.17	4207270.37	0.00172	0.001462	0.00172	0.00034
565273.66	4207262.2	0.002024	0.001719	0.002024	0.00040
565254.98	4207254.03	0.002173	0.001845	0.002173	0.00043
565231.64	4207249.36	0.002451	0.00208	0.002451	0.00049
565212.96	4207236.52	0.002462	0.002089	0.002462	0.00049
565183.78	4207233.02	0.00274	0.002324	0.00274	0.00055
565501.27	4207312.39	0.000927	0.000792	0.000927	0.00019
565516.44	4207325.23	0.000938	0.000801	0.000938	0.00019
565543.29	4207324.07	0.0008	0.000685	0.0008	0.00016
565372.87	4207269.21	0.001113	0.00095	0.001113	0.00022
565474.42	4207265.7	0.000749	0.000642	0.000749	0.00015
565222.3	4207670.73	0.003558	0.003133	0.003558	0.00071
565184.95	4207657.89	0.00334	0.00295	0.00334	0.00067
565236.31	4207708.08	0.002974	0.002603	0.002974	0.00059
565370.54	4207706.91	0.002378	0.002046	0.002378	0.00048
565399.72	4207696.41	0.002151	0.001854	0.002151	0.00043
565428.9	4207688.24	0.001904	0.001636	0.001904	0.00038
565151.1	4207652.05	0.003014	0.002683	0.003014	0.00060
565105.58	4207646.22	0.002504	0.002262	0.002504	0.00050
564896.65	4207642.72	0.000946	0.000918	0.000946	0.00019
564876.8	4207628.71	0.000944	0.000934	0.000944	0.00019
564858.13	4207614.7	0.000927	0.000947	0.000947	0.00019
564838.29	4207611.2	0.000872	0.000901	0.000901	0.00018
564807.94	4207600.7	0.000811	0.000886	0.000886	0.00018
564777.59	4207600.7	0.000742	0.000845	0.000845	0.00017
564749.58	4207603.03	0.000679	0.000792	0.000792	0.00016
564726.23	4207605.37	0.000638	0.000758	0.000758	0.00015
564701.72	4207615.87	0.000585	0.000694	0.000694	0.00014
564681.88	4207624.04	0.000547	0.000653	0.000653	0.00013
564649.2	4207633.38	0.000499	0.000604	0.000604	0.00012
564630.52	4207640.38	0.000471	0.000571	0.000571	0.00011
564609.51	4207650.89	0.000439	0.000526	0.000526	0.00011
564589.67	4207655.56	0.000419	0.000509	0.000509	0.00010
564563.99	4207668.4	0.000388	0.000464	0.000464	0.00009
564538.31	4207678.9	0.000361	0.000424	0.000424	0.00008
564517.3	4207687.07	0.000342	0.000398	0.000398	0.00008
CONCUNIT ug/ m^3		0	0	0	0.00000
DEPUNIT g/m^	2	0	0	0	0.00000

Maximum Caner Risk
0.00

BAAQMD threshold of significance
1

Exceed thresholds?
No

Willow Ave Service Commercial

Tier IV Mitigation
at Sensitive Receptors

Annual Average PM2.5 (Exhaust + Fugitive Dust)

X (m)	Y (m)	2018 PM2.5 (ug/m3)	2019 PM2.5 (ug/m3)	Max PM2.5 (ug/m3)
565075.43	4207459.29	0.011985	0.010162	0.01198
565374.04	4207297.22	0.001432	0.001219	0.00143
565350.7	4207277.38	0.001307	0.001113	0.00131
565325.02	4207271.54	0.001531	0.001303	0.00153
565305.17	4207270.37	0.00172	0.001462	0.00172
565273.66	4207262.2	0.002024	0.001719	0.00202
565254.98	4207254.03	0.002173	0.001845	0.00217
565231.64	4207249.36	0.002451	0.00208	0.00245
565212.96	4207236.52	0.002462	0.002089	0.00246
565183.78	4207233.02	0.00274	0.002324	0.00274
565501.27	4207312.39	0.000927	0.000792	0.00093
565516.44	4207325.23	0.000938	0.000801	0.00094
565543.29	4207324.07	0.0008	0.000685	0.00080
565372.87	4207269.21	0.001113	0.00095	0.00111
565474.42	4207265.7	0.000749	0.000642	0.00075
565222.3	4207670.73	0.003558	0.003133	0.00356
565184.95	4207657.89	0.00334	0.00295	0.00334
565236.31	4207708.08	0.002974	0.002603	0.00297
565370.54	4207706.91	0.002378	0.002046	0.00238
565399.72	4207696.41	0.002151	0.001854	0.00215
565428.9	4207688.24	0.001904	0.001636	0.00190
565151.1	4207652.05	0.003014	0.002683	0.00301
565105.58	4207646.22	0.002504	0.002262	0.00250
564896.65	4207642.72	0.000946	0.000918	0.00095
564876.8	4207628.71	0.000944	0.000934	0.00094
564858.13	4207614.7	0.000927	0.000947	0.00095
564838.29	4207611.2	0.000872	0.000901	0.00090
564807.94	4207600.7	0.000811	0.000886	0.00089
564777.59	4207600.7	0.000742	0.000845	0.00085
564749.58	4207603.03	0.000679	0.000792	0.00079
564726.23	4207605.37	0.000638	0.000758	0.00076
564701.72	4207615.87	0.000585	0.000694	0.00069
564681.88	4207624.04	0.000547	0.000653	0.00065
564649.2	4207633.38	0.000499	0.000604	0.00060
564630.52	4207640.38	0.000471	0.000571	0.00057
564609.51	4207650.89	0.000439	0.000526	0.00053
564589.67	4207655.56	0.000419	0.000509	0.00051
564563.99	4207668.4	0.000388	0.000464	0.00046
564538.31	4207678.9	0.000361	0.000424	0.00042
564517.3	4207687.07	0.000342	0.000398	0.00040
CONCUNIT ug/	m^3	0	0	0.00000
DEPUNIT g/m^	2	0	0	0.00000

Maximum Caner Risk
0.01
BAAQMD threshold of significance
0.3
Exceed thresholds?
No

Willow Avenue **Tier IV Mitigation** **at Sensitive Recptors**

Estimated Cancer Risks from Construction DPM - Infant Receptors

X (m)	Y (m)	InfantCancer Risk (3rd Trimester) 2018 (/million)	Infant Cancer Risk (year 1) 2018 (/million)	Infant Cancer Risk (year 2) 2019 (/million)	Total Cancer Risk (/million)	Service Commercial Total Cancer Risk (/million)	Total Cancer Risk (/million)
565075.43	4207459.29	0.011	0.136	0.401	0.54849	1.613928	2.2
565374.04	4207297.22	0.008	0.096	0.280	0.38440	0.19329	0.6
565350.7	4207277.38	0.008	0.091	0.265	0.36307	0.176519	0.5
565325.02	4207271.54	0.008	0.093	0.269	0.36976	0.206716	0.6
565305.17	4207270.37	0.008	0.094	0.272	0.37362	0.231977	0.6
565273.66	4207262.2	0.007	0.086	0.251	0.34472	0.27283	0.6
565254.98	4207254.03	0.006	0.078	0.228	0.31288	0.292942	0.6
565231.64	4207249.36	0.006	0.070	0.204	0.27942	0.330285	0.6
565212.96	4207236.52	0.005	0.060	0.175	0.23934	0.331664	0.6
565183.78	4207233.02	0.004	0.050	0.146	0.20014	0.369042	0.6
565501.27	4207312.39	0.003	0.038	0.111	0.15149	0.12551	0.3
565516.44	4207325.23	0.003	0.037	0.110	0.15081	0.126954	0.3
565543.29	4207324.07	0.003	0.031	0.090	0.12340	0.108469	0.2
565372.87	4207269.21	0.007	0.080	0.231	0.31751	0.150553	0.5
565474.42	4207265.7	0.003	0.036	0.107	0.14569	0.101567	0.2
565222.3	4207670.73	0.008	0.100	0.320	0.42860	0.491786	0.9
565184.95	4207657.89	0.006	0.072	0.238	0.31506	0.462567	0.8
565236.31	4207708.08	0.008	0.091	0.284	0.38267	0.409373	0.8
565370.54	4207706.91	0.014	0.174	0.512	0.70053	0.323413	1.0
565399.72	4207696.41	0.016	0.191	0.560	0.76661	0.292903	1.1
565428.9	4207688.24	0.016	0.198	0.578	0.79263	0.258737	1.1
565151.1	4207652.05	0.005	0.060	0.206	0.27035	0.419784	0.7
565105.58	4207646.22	0.005	0.058	0.204	0.26737	0.352293	0.6
564896.65	4207642.72	0.003	0.031	0.120	0.15350	0.139998	0.3
564876.8	4207628.71	0.003	0.031	0.124	0.15789	0.141649	0.3
564858.13	4207614.7	0.003	0.031	0.130	0.16432	0.142415	0.3
564838.29	4207611.2	0.002	0.030	0.126	0.15841	0.134999	0.3
564807.94	4207600.7	0.002	0.028	0.131	0.16148	0.130786	0.3
564777.59	4207600.7	0.002	0.026	0.129	0.15756	0.123452	0.3
564749.58	4207603.03	0.002	0.024	0.123	0.14965	0.115045	0.3
564726.23	4207605.37	0.002	0.023	0.120	0.14423	0.109504	0.3
564701.72	4207615.87	0.002	0.021	0.110	0.13245	0.100332	0.2
564681.88	4207624.04	0.002	0.020	0.104	0.12505	0.09432	0.2
564649.2	4207633.38	0.001	0.018	0.097	0.11624	0.086912	0.2
564630.52	4207640.38	0.001	0.017	0.092	0.11008	0.082104	0.2
564609.51	4207650.89	0.001	0.016	0.084	0.10109	0.075812	0.2
564589.67	4207655.56	0.001	0.015	0.082	0.09834	0.07315	0.2
564563.99	4207668.4	0.001	0.014	0.074	0.08938	0.06695	0.2
564538.31	4207678.9	0.001	0.013	0.067	0.08117	0.06141	0.1
564517.3	4207687.07	0.001	0.012	0.063	0.07617	0.057799	0.1
CONCUNIT ug	m^3	0.000	0.000	0.000	0.00000	0	0.0
DEPUNIT g/m	2	0.000	0.000	0.000	0.00000	0	

Maximum Caner Risk
2.2
BAAQMD threshold of significance
10
Exceed thresholds?
No

Willow Avenue

Tier IV Mitigation **at Sensitive Receptors**

Estimated Cancer Risks from Construction DPM

X (m)	Y (m)	Child Cancer Risk (year 1) 2018 (/million)	Child Cancer Risk (year 2) 2019 (/million)	Self-storage Total Cancer Risk (/million)	Service Commercial Total Cancer Risk (/million)	Total Cancer Risk (/million)
565075.43	4207459.29	0.066	0.059	0.12	0.42	0.54
565374.04	4207297.22	0.047	0.041	0.09	0.05	0.14
565350.7	4207277.38	0.044	0.039	0.08	0.05	0.13
565325.02	4207271.54	0.045	0.040	0.08	0.05	0.14
565305.17	4207270.37	0.045	0.040	0.09	0.06	0.15
565273.66	4207262.2	0.042	0.037	0.08	0.07	0.15
565254.98	4207254.03	0.038	0.034	0.07	0.08	0.15
565231.64	4207249.36	0.034	0.030	0.06	0.09	0.15
565212.96	4207236.52	0.029	0.026	0.05	0.09	0.14
565183.78	4207233.02	0.024	0.021	0.05	0.10	0.14
565501.27	4207312.39	0.018	0.016	0.03	0.03	0.07
565516.44	4207325.23	0.018	0.016	0.03	0.03	0.07
565543.29	4207324.07	0.015	0.013	0.03	0.03	0.06
565372.87	4207269.21	0.038	0.034	0.07	0.04	0.11
565474.42	4207265.7	0.017	0.016	0.03	0.03	0.06
565222.3	4207670.73	0.048	0.047	0.10	0.13	0.22
565184.95	4207657.89	0.035	0.035	0.07	0.12	0.19
565236.31	4207708.08	0.044	0.042	0.09	0.11	0.19
565370.54	4207706.91	0.084	0.075	0.16	0.08	0.24
565399.72	4207696.41	0.092	0.082	0.17	0.08	0.25
565428.9	4207688.24	0.096	0.085	0.18	0.07	0.25
565151.1	4207652.05	0.029	0.030	0.06	0.11	0.17
565105.58	4207646.22	0.028	0.030	0.06	0.09	0.15
564896.65	4207642.72	0.015	0.018	0.03	0.04	0.07
564876.8	4207628.71	0.015	0.018	0.03	0.04	0.07
564858.13	4207614.7	0.015	0.019	0.03	0.04	0.07
564838.29	4207611.2	0.014	0.019	0.03	0.03	0.07
564807.94	4207600.7	0.014	0.019	0.03	0.03	0.06
564777.59	4207600.7	0.013	0.019	0.03	0.03	0.06
564749.58	4207603.03	0.012	0.018	0.03	0.03	0.06
564726.23	4207605.37	0.011	0.018	0.03	0.03	0.05
564701.72	4207615.87	0.010	0.016	0.03	0.02	0.05
564681.88	4207624.04	0.010	0.015	0.02	0.02	0.05
564649.2	4207633.38	0.009	0.014	0.02	0.02	0.04
564630.52	4207640.38	0.008	0.013	0.02	0.02	0.04
564609.51	4207650.89	0.008	0.012	0.02	0.02	0.04
564589.67	4207655.56	0.007	0.012	0.02	0.02	0.04
564563.99	4207668.4	0.007	0.011	0.02	0.02	0.03
564538.31	4207678.9	0.006	0.010	0.02	0.01	0.03
564517.3	4207687.07	0.006	0.009	0.02	0.01	0.03
CONCUNIT ug	m^3	0.000	0.000	0.00	0.00	0.00
DEPUNIT g/m	2	0.000	0.000	0.00		

Maximum Caner Risk	0.5
BAAQMD threshold of significance	10
Exceed thresholds?	No

Willow Avenue

Tier IV Mitigation **at Sensitive Receptors**

Estimated Cancer Risks from Construction DPM

X (m)	Y (m)	Adult Cancer Risk (year 1) 2018 (/million)	Adult Cancer Risk (year 2) 2019 (/million)	Total Cancer Risk (/million)	Self-Storage Total Cancer Risk (/million)	Service Commercial Total Cancer Risk (/million)
565075.43	4207459.29	0.010	0.009	0.01870	0.06	0.08
565374.04	4207297.22	0.007	0.006	0.01316	0.01	0.02
565350.7	4207277.38	0.007	0.006	0.01242	0.01	0.02
565325.02	4207271.54	0.007	0.006	0.01265	0.01	0.02
565305.17	4207270.37	0.007	0.006	0.01279	0.01	0.02
565273.66	4207262.2	0.006	0.006	0.01180	0.01	0.02
565254.98	4207254.03	0.006	0.005	0.01070	0.01	0.02
565231.64	4207249.36	0.005	0.004	0.00956	0.01	0.02
565212.96	4207236.52	0.004	0.004	0.00818	0.01	0.02
565183.78	4207233.02	0.004	0.003	0.00684	0.01	0.02
565501.27	4207312.39	0.003	0.002	0.00517	0.00	0.01
565516.44	4207325.23	0.003	0.002	0.00514	0.00	0.01
565543.29	4207324.07	0.002	0.002	0.00420	0.00	0.01
565372.87	4207269.21	0.006	0.005	0.01086	0.01	0.02
565474.42	4207265.7	0.003	0.002	0.00497	0.00	0.01
565222.3	4207670.73	0.007	0.007	0.01432	0.02	0.03
565184.95	4207657.89	0.005	0.005	0.01042	0.02	0.03
565236.31	4207708.08	0.007	0.006	0.01285	0.02	0.03
565370.54	4207706.91	0.013	0.011	0.02392	0.01	0.04
565399.72	4207696.41	0.014	0.012	0.02618	0.01	0.04
565428.9	4207688.24	0.014	0.013	0.02710	0.01	0.04
565151.1	4207652.05	0.004	0.005	0.00886	0.02	0.02
565105.58	4207646.22	0.004	0.005	0.00873	0.01	0.02
564896.65	4207642.72	0.002	0.003	0.00491	0.01	0.01
564876.8	4207628.71	0.002	0.003	0.00500	0.01	0.01
564858.13	4207614.7	0.002	0.003	0.00514	0.01	0.01
564838.29	4207611.2	0.002	0.003	0.00494	0.01	0.01
564807.94	4207600.7	0.002	0.003	0.00493	0.00	0.01
564777.59	4207600.7	0.002	0.003	0.00475	0.00	0.01
564749.58	4207603.03	0.002	0.003	0.00447	0.00	0.01
564726.23	4207605.37	0.002	0.003	0.00429	0.00	0.01
564701.72	4207615.87	0.002	0.002	0.00394	0.00	0.01
564681.88	4207624.04	0.001	0.002	0.00371	0.00	0.01
564649.2	4207633.38	0.001	0.002	0.00344	0.00	0.01
564630.52	4207640.38	0.001	0.002	0.00325	0.00	0.01
564609.51	4207650.89	0.001	0.002	0.00300	0.00	0.01
564589.67	4207655.56	0.001	0.002	0.00291	0.00	0.01
564563.99	4207668.4	0.001	0.002	0.00265	0.00	0.01
564538.31	4207678.9	0.001	0.001	0.00243	0.00	0.00
564517.3	4207687.07	0.001	0.001	0.00228	0.00	0.00
CONCUNIT ug	m^3	0.000	0.000	0.00000		
DEPUNIT g/m	2	0.000	0.000	0.00000		

Maximum Caner Risk
0.1
BAAQMD threshold of significance
10
Exceed thresholds?
No

Willow Avenue

Tier IV Mitigation
at Sensitive Receptors

Chronic Non-Cancer Hazard Index

Reference Exposure Level (REL) for DPM: 5 ug/m3

CNCHI = DPM/REL

X (m)	Y (m)	2018 DPM (ug/m3)	2019 DPM (ug/m3)	Max DPM (ug/m3)	CNCHI	Self-storage CNCHI	Service Commercial Total CNCHI
565075.43	4207459.29	0.003481	0.003123	0.003481	0.00070	0.002	0.003
565374.04	4207297.22	0.002466	0.00218	0.002466	0.00049	0.000	0.001
565350.7	4207277.38	0.002328	0.00206	0.002328	0.00047	0.000	0.001
565325.02	4207271.54	0.002371	0.002097	0.002371	0.00047	0.000	0.001
565305.17	4207270.37	0.002396	0.002119	0.002396	0.00048	0.000	0.001
565273.66	4207262.2	0.00221	0.001956	0.00221	0.00044	0.000	0.001
565254.98	4207254.03	0.002004	0.001775	0.002004	0.00040	0.000	0.001
565231.64	4207249.36	0.001788	0.001586	0.001788	0.00036	0.000	0.001
565212.96	4207236.52	0.00153	0.001359	0.00153	0.00031	0.000	0.001
565183.78	4207233.02	0.001277	0.001137	0.001277	0.00026	0.001	0.001
565501.27	4207312.39	0.000963	0.000862	0.000963	0.00019	0.000	0.000
565516.44	4207325.23	0.000959	0.000858	0.000959	0.00019	0.000	0.000
565543.29	4207324.07	0.000782	0.000703	0.000782	0.00016	0.000	0.000
565372.87	4207269.21	0.002034	0.001802	0.002034	0.00041	0.000	0.001
565474.42	4207265.7	0.000926	0.000829	0.000926	0.00019	0.000	0.000
565222.3	4207670.73	0.002563	0.002492	0.002563	0.00051	0.001	0.001
565184.95	4207657.89	0.001831	0.00185	0.00185	0.00037	0.001	0.001
565236.31	4207708.08	0.002325	0.002213	0.002325	0.00046	0.001	0.001
565370.54	4207706.91	0.004462	0.003984	0.004462	0.00089	0.000	0.001
565399.72	4207696.41	0.004888	0.004358	0.004888	0.00098	0.000	0.001
565428.9	4207688.24	0.005071	0.0045	0.005071	0.00101	0.000	0.001
565151.1	4207652.05	0.001528	0.001601	0.001601	0.00032	0.001	0.001
565105.58	4207646.22	0.001494	0.001589	0.001589	0.00032	0.001	0.001
564896.65	4207642.72	0.000803	0.000931	0.000931	0.00019	0.000	0.000
564876.8	4207628.71	0.000802	0.000965	0.000965	0.00019	0.000	0.000
564858.13	4207614.7	0.0008	0.001016	0.001016	0.00020	0.000	0.000
564838.29	4207611.2	0.000762	0.000982	0.000982	0.00020	0.000	0.000
564807.94	4207600.7	0.000724	0.001019	0.001019	0.00020	0.000	0.000
564777.59	4207600.7	0.00067	0.001006	0.001006	0.00020	0.000	0.000
564749.58	4207603.03	0.000619	0.000961	0.000961	0.00019	0.000	0.000
564726.23	4207605.37	0.000584	0.00093	0.00093	0.00019	0.000	0.000
564701.72	4207615.87	0.000537	0.000854	0.000854	0.00017	0.000	0.000
564681.88	4207624.04	0.000504	0.000808	0.000808	0.00016	0.000	0.000
564649.2	4207633.38	0.000461	0.000753	0.000753	0.00015	0.000	0.000
564630.52	4207640.38	0.000436	0.000713	0.000713	0.00014	0.000	0.000
564609.51	4207650.89	0.000407	0.000653	0.000653	0.00013	0.000	0.000
564589.67	4207655.56	0.000389	0.000637	0.000637	0.00013	0.000	0.000
564563.99	4207668.4	0.00036	0.000577	0.000577	0.00012	0.000	0.000
564538.31	4207678.9	0.000336	0.000521	0.000521	0.00010	0.000	0.000
564517.3	4207687.07	0.000318	0.000488	0.000488	0.00010	0.000	0.000
CONCUNIT ug/ m^3		0	0	0	0.00000		
DEPUNIT g/m^	2	0	0	0	0.00000		

Maximum Caner Risk
0.00
BAAQMD threshold of significance
1
Exceed thresholds?
No

Willow Avenue

Tier IV Mitigation
at Sensitive Receptors

Annual Average PM2.5 (Exhaust + Fugitive Dust)

		Self-storage		Service Commercial		Total	
		2018	2019	2018	2019	2018	2019
X	Y	PM2.5	PM2.5	PM2.5	PM2.5	Total	Total
(m)	(m)	(ug/m3)	(ug/m3)	(ug/m3)	(ug/m3)	(ug/m3)	(ug/m3)
565075.43	4207459.29	0.003481	0.003123	0.012	0.010	0.015	0.013
565374.04	4207297.22	0.002466	0.00218	0.001	0.001	0.004	0.003
565350.7	4207277.38	0.002328	0.00206	0.001	0.001	0.004	0.003
565325.02	4207271.54	0.002371	0.002097	0.002	0.001	0.004	0.003
565305.17	4207270.37	0.002396	0.002119	0.002	0.001	0.004	0.004
565273.66	4207262.2	0.00221	0.001956	0.002	0.002	0.004	0.004
565254.98	4207254.03	0.002004	0.001775	0.002	0.002	0.004	0.004
565231.64	4207249.36	0.001788	0.001586	0.002	0.002	0.004	0.004
565212.96	4207236.52	0.00153	0.001359	0.002	0.002	0.004	0.003
565183.78	4207233.02	0.001277	0.001137	0.003	0.002	0.004	0.003
565501.27	4207312.39	0.000963	0.000862	0.001	0.001	0.002	0.002
565516.44	4207325.23	0.000959	0.000858	0.001	0.001	0.002	0.002
565543.29	4207324.07	0.000782	0.000703	0.001	0.001	0.002	0.001
565372.87	4207269.21	0.002034	0.001802	0.001	0.001	0.003	0.003
565474.42	4207265.7	0.000926	0.000829	0.001	0.001	0.002	0.001
565222.3	4207670.73	0.002563	0.002492	0.004	0.003	0.006	0.006
565184.95	4207657.89	0.001831	0.00185	0.003	0.003	0.005	0.005
565236.31	4207708.08	0.002325	0.002213	0.003	0.003	0.005	0.005
565370.54	4207706.91	0.004462	0.003984	0.002	0.002	0.007	0.006
565399.72	4207696.41	0.004888	0.004358	0.002	0.002	0.007	0.006
565428.9	4207688.24	0.005071	0.0045	0.002	0.002	0.007	0.006
565151.1	4207652.05	0.001528	0.001601	0.003	0.003	0.005	0.004
565105.58	4207646.22	0.001494	0.001589	0.003	0.002	0.004	0.004
564896.65	4207642.72	0.000803	0.000931	0.001	0.001	0.002	0.002
564876.8	4207628.71	0.000802	0.000965	0.001	0.001	0.002	0.002
564858.13	4207614.7	0.0008	0.001016	0.001	0.001	0.002	0.002
564838.29	4207611.2	0.000762	0.000982	0.001	0.001	0.002	0.002
564807.94	4207600.7	0.000724	0.001019	0.001	0.001	0.002	0.002
564777.59	4207600.7	0.00067	0.001006	0.001	0.001	0.001	0.002
564749.58	4207603.03	0.000619	0.000961	0.001	0.001	0.001	0.002
564726.23	4207605.37	0.000584	0.00093	0.001	0.001	0.001	0.002
564701.72	4207615.87	0.000537	0.000854	0.001	0.001	0.001	0.002
564681.88	4207624.04	0.000504	0.000808	0.001	0.001	0.001	0.001
564649.2	4207633.38	0.000461	0.000753	0.000	0.001	0.001	0.001
564630.52	4207640.38	0.000436	0.000713	0.000	0.001	0.001	0.001
564609.51	4207650.89	0.000407	0.000653	0.000	0.001	0.001	0.001
564589.67	4207655.56	0.000389	0.000637	0.000	0.001	0.001	0.001
564563.99	4207668.4	0.00036	0.000577	0.000	0.000	0.001	0.001
564538.31	4207678.9	0.000336	0.000521	0.000	0.000	0.001	0.001
564517.3	4207687.07	0.000318	0.000488	0.000	0.000	0.001	0.001
CONCUNIT ug/	m^3	0	0				
DEPUNIT g/m^	2	0	0				

Maximum Caner Risk
0.02
BAAQMD threshold of significance
0.3
Exceed thresholds?
No

```
**
****************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 9.5.0
** Lakes Environmental Software Inc.
** Date: 3/20/2018
** File: C:\Users\xli\Desktop\4673.0012 Willow Avenue Commercial
Center\construction HRA\self-storage\self-storage.ADI
**
****************************************
**
**
****************************************
** AERMOD Control Pathway
****************************************
**
**
CO STARTING
   TITLEONE C:\Users\xli\Desktop\construction HRA storage
facility\construction
   MODELOPT DFAULT CONC
   AVERTIME ANNUAL
   URBANOPT 10000
   POLLUTID DPM
   RUNORNOT RUN
   ERRORFIL self-storage.err
CO FINISHED
**
****************************************
** AERMOD Source Pathway
****************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION PAREA1       AREAPOLY   565154.809  4207454.449
25.850
** DESCRSRC Storage Facility
** ---------------------------------------------------------------------
--
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE1
** DESCRSRC off-site truck
** PREFIX
** Length of Side = 9.00
** Configuration = Adjacent
** Emission Rate = 0.00001
** Elevated
** Vertical Dimension = 6.22
** SZINIT = 1.45
```

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** Nodes = 7
** 564434.961, 4207643.859, 20.09, 3.11, 4.19
** 564546.758, 4207609.164, 19.28, 3.11, 4.19
** 564801.191, 4207549.410, 18.12, 3.11, 4.19
** 565225.246, 4207589.888, 30.78, 3.11, 4.19
** 565244.521, 4207597.598, 30.78, 3.11, 4.19
** 565211.753, 4207526.280, 29.43, 3.11, 4.19
** 565165.493, 4207474.237, 26.93, 3.11, 4.19
** ------------------------------------------------------------------
--
   LOCATION L0000001     VOLUME   564439.259 4207642.525 19.98
   LOCATION L0000002     VOLUME   564447.855 4207639.858 20.04
   LOCATION L0000003     VOLUME   564456.450 4207637.190 20.01
   LOCATION L0000004     VOLUME   564465.046 4207634.522 19.97
   LOCATION L0000005     VOLUME   564473.641 4207631.855 19.92
   LOCATION L0000006     VOLUME   564482.237 4207629.187 19.87
   LOCATION L0000007     VOLUME   564490.833 4207626.520 19.81
   LOCATION L0000008     VOLUME   564499.428 4207623.852 19.74
   LOCATION L0000009     VOLUME   564508.024 4207621.184 19.67
   LOCATION L0000010     VOLUME   564516.619 4207618.517 19.58
   LOCATION L0000011     VOLUME   564525.215 4207615.849 19.55
   LOCATION L0000012     VOLUME   564533.811 4207613.182 19.54
   LOCATION L0000013     VOLUME   564542.406 4207610.514 19.51
   LOCATION L0000014     VOLUME   564551.084 4207608.148 19.44
   LOCATION L0000015     VOLUME   564559.845 4207606.090 19.35
   LOCATION L0000016     VOLUME   564568.607 4207604.032 19.24
   LOCATION L0000017     VOLUME   564577.369 4207601.975 19.13
   LOCATION L0000018     VOLUME   564586.130 4207599.917 19.00
   LOCATION L0000019     VOLUME   564594.892 4207597.859 18.91
   LOCATION L0000020     VOLUME   564603.653 4207595.802 18.94
   LOCATION L0000021     VOLUME   564612.415 4207593.744 18.96
   LOCATION L0000022     VOLUME   564621.177 4207591.686 18.98
   LOCATION L0000023     VOLUME   564629.938 4207589.629 19.00
   LOCATION L0000024     VOLUME   564638.700 4207587.571 19.01
   LOCATION L0000025     VOLUME   564647.462 4207585.513 19.01
   LOCATION L0000026     VOLUME   564656.223 4207583.456 19.01
   LOCATION L0000027     VOLUME   564664.985 4207581.398 19.00
   LOCATION L0000028     VOLUME   564673.746 4207579.341 18.96
   LOCATION L0000029     VOLUME   564682.508 4207577.283 18.90
   LOCATION L0000030     VOLUME   564691.270 4207575.225 18.85
   LOCATION L0000031     VOLUME   564700.031 4207573.168 18.80
   LOCATION L0000032     VOLUME   564708.793 4207571.110 18.75
   LOCATION L0000033     VOLUME   564717.555 4207569.052 18.70
   LOCATION L0000034     VOLUME   564726.316 4207566.995 18.65
   LOCATION L0000035     VOLUME   564735.078 4207564.937 18.60
   LOCATION L0000036     VOLUME   564743.839 4207562.879 18.60
   LOCATION L0000037     VOLUME   564752.601 4207560.822 18.62
   LOCATION L0000038     VOLUME   564761.363 4207558.764 18.60
   LOCATION L0000039     VOLUME   564770.124 4207556.706 18.55
   LOCATION L0000040     VOLUME   564778.886 4207554.649 18.47
   LOCATION L0000041     VOLUME   564787.648 4207552.591 18.35
   LOCATION L0000042     VOLUME   564796.409 4207550.533 18.26
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LOCATION	L0000043	VOLUME	564805.261	4207549.799	18.17
LOCATION	L0000044	VOLUME	564814.220	4207550.654	18.14
LOCATION	L0000045	VOLUME	564823.179	4207551.509	18.59
LOCATION	L0000046	VOLUME	564832.138	4207552.364	19.10
LOCATION	L0000047	VOLUME	564841.098	4207553.220	19.62
LOCATION	L0000048	VOLUME	564850.057	4207554.075	20.13
LOCATION	L0000049	VOLUME	564859.016	4207554.930	20.65
LOCATION	L0000050	VOLUME	564867.975	4207555.785	21.16
LOCATION	L0000051	VOLUME	564876.935	4207556.640	21.68
LOCATION	L0000052	VOLUME	564885.894	4207557.496	22.18
LOCATION	L0000053	VOLUME	564894.853	4207558.351	22.45
LOCATION	L0000054	VOLUME	564903.813	4207559.206	22.73
LOCATION	L0000055	VOLUME	564912.772	4207560.061	23.00
LOCATION	L0000056	VOLUME	564921.731	4207560.917	23.27
LOCATION	L0000057	VOLUME	564930.690	4207561.772	23.54
LOCATION	L0000058	VOLUME	564939.650	4207562.627	23.81
LOCATION	L0000059	VOLUME	564948.609	4207563.482	24.08
LOCATION	L0000060	VOLUME	564957.568	4207564.337	24.35
LOCATION	L0000061	VOLUME	564966.528	4207565.193	24.63
LOCATION	L0000062	VOLUME	564975.487	4207566.048	24.92
LOCATION	L0000063	VOLUME	564984.446	4207566.903	25.21
LOCATION	L0000064	VOLUME	564993.405	4207567.758	25.51
LOCATION	L0000065	VOLUME	565002.365	4207568.613	25.80
LOCATION	L0000066	VOLUME	565011.324	4207569.469	26.10
LOCATION	L0000067	VOLUME	565020.283	4207570.324	26.40
LOCATION	L0000068	VOLUME	565029.242	4207571.179	26.70
LOCATION	L0000069	VOLUME	565038.202	4207572.034	26.95
LOCATION	L0000070	VOLUME	565047.161	4207572.889	27.18
LOCATION	L0000071	VOLUME	565056.120	4207573.745	27.40
LOCATION	L0000072	VOLUME	565065.080	4207574.600	27.61
LOCATION	L0000073	VOLUME	565074.039	4207575.455	27.83
LOCATION	L0000074	VOLUME	565082.998	4207576.310	28.04
LOCATION	L0000075	VOLUME	565091.957	4207577.165	28.24
LOCATION	L0000076	VOLUME	565100.917	4207578.021	28.44
LOCATION	L0000077	VOLUME	565109.876	4207578.876	28.72
LOCATION	L0000078	VOLUME	565118.835	4207579.731	29.05
LOCATION	L0000079	VOLUME	565127.794	4207580.586	29.38
LOCATION	L0000080	VOLUME	565136.754	4207581.441	29.72
LOCATION	L0000081	VOLUME	565145.713	4207582.297	30.07
LOCATION	L0000082	VOLUME	565154.672	4207583.152	30.41
LOCATION	L0000083	VOLUME	565163.632	4207584.007	30.77
LOCATION	L0000084	VOLUME	565172.591	4207584.862	31.12
LOCATION	L0000085	VOLUME	565181.550	4207585.717	31.30
LOCATION	L0000086	VOLUME	565190.509	4207586.573	31.21
LOCATION	L0000087	VOLUME	565199.469	4207587.428	31.10
LOCATION	L0000088	VOLUME	565208.428	4207588.283	31.00
LOCATION	L0000089	VOLUME	565217.387	4207589.138	30.88
LOCATION	L0000090	VOLUME	565226.272	4207590.299	30.77
LOCATION	L0000091	VOLUME	565234.629	4207593.641	30.70
LOCATION	L0000092	VOLUME	565242.985	4207596.984	30.60
LOCATION	L0000093	VOLUME	565241.455	4207590.924	30.54
LOCATION	L0000094	VOLUME	565237.697	4207582.746	30.47

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   LOCATION L0000095     VOLUME   565233.940 4207574.568 30.36
   LOCATION L0000096     VOLUME   565230.182 4207566.390 30.23
   LOCATION L0000097     VOLUME   565226.425 4207558.211 30.07
   LOCATION L0000098     VOLUME   565222.667 4207550.033 29.91
   LOCATION L0000099     VOLUME   565218.909 4207541.855 29.74
   LOCATION L0000100     VOLUME   565215.152 4207533.677 29.55
   LOCATION L0000101     VOLUME   565211.182 4207525.638 29.34
   LOCATION L0000102     VOLUME   565205.203 4207518.911 29.12
   LOCATION L0000103     VOLUME   565199.224 4207512.184 28.88
   LOCATION L0000104     VOLUME   565193.244 4207505.458 28.62
   LOCATION L0000105     VOLUME   565187.265 4207498.731 28.33
   LOCATION L0000106     VOLUME   565181.286 4207492.004 28.02
   LOCATION L0000107     VOLUME   565175.307 4207485.278 27.63
   LOCATION L0000108     VOLUME   565169.327 4207478.551 27.18
** End of LINE VOLUME Source ID = SLINE1
** Source Parameters **
   SRCPARAM PAREA1         0.00001     5.000         7
   AREAVERT PAREA1       565154.809 4207454.449 565293.357 4207392.873
   AREAVERT PAREA1       565441.312 4207435.634 565406.248 4207523.723
   AREAVERT PAREA1       565311.317 4207486.948 565237.767 4207519.447
   AREAVERT PAREA1       565200.137 4207495.501
** LINE VOLUME Source ID = SLINE1
   SRCPARAM L0000001     0.00000009259      3.11      4.19      1.45
   SRCPARAM L0000002     0.00000009259      3.11      4.19      1.45
   SRCPARAM L0000003     0.00000009259      3.11      4.19      1.45
   SRCPARAM L0000004     0.00000009259      3.11      4.19      1.45
   SRCPARAM L0000005     0.00000009259      3.11      4.19      1.45
   SRCPARAM L0000006     0.00000009259      3.11      4.19      1.45
   SRCPARAM L0000007     0.00000009259      3.11      4.19      1.45
   SRCPARAM L0000008     0.00000009259      3.11      4.19      1.45
   SRCPARAM L0000009     0.00000009259      3.11      4.19      1.45
   SRCPARAM L0000010     0.00000009259      3.11      4.19      1.45
   SRCPARAM L0000011     0.00000009259      3.11      4.19      1.45
   SRCPARAM L0000012     0.00000009259      3.11      4.19      1.45
   SRCPARAM L0000013     0.00000009259      3.11      4.19      1.45
   SRCPARAM L0000014     0.00000009259      3.11      4.19      1.45
   SRCPARAM L0000015     0.00000009259      3.11      4.19      1.45
   SRCPARAM L0000016     0.00000009259      3.11      4.19      1.45
   SRCPARAM L0000017     0.00000009259      3.11      4.19      1.45
   SRCPARAM L0000018     0.00000009259      3.11      4.19      1.45
   SRCPARAM L0000019     0.00000009259      3.11      4.19      1.45
   SRCPARAM L0000020     0.00000009259      3.11      4.19      1.45
   SRCPARAM L0000021     0.00000009259      3.11      4.19      1.45
   SRCPARAM L0000022     0.00000009259      3.11      4.19      1.45
   SRCPARAM L0000023     0.00000009259      3.11      4.19      1.45
   SRCPARAM L0000024     0.00000009259      3.11      4.19      1.45
   SRCPARAM L0000025     0.00000009259      3.11      4.19      1.45
   SRCPARAM L0000026     0.00000009259      3.11      4.19      1.45
   SRCPARAM L0000027     0.00000009259      3.11      4.19      1.45
   SRCPARAM L0000028     0.00000009259      3.11      4.19      1.45
   SRCPARAM L0000029     0.00000009259      3.11      4.19      1.45
   SRCPARAM L0000030     0.00000009259      3.11      4.19      1.45
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SRCPARAM	L0000031	0.00000009259	3.11	4.19	1.45
SRCPARAM	L0000032	0.00000009259	3.11	4.19	1.45
SRCPARAM	L0000033	0.00000009259	3.11	4.19	1.45
SRCPARAM	L0000034	0.00000009259	3.11	4.19	1.45
SRCPARAM	L0000035	0.00000009259	3.11	4.19	1.45
SRCPARAM	L0000036	0.00000009259	3.11	4.19	1.45
SRCPARAM	L0000037	0.00000009259	3.11	4.19	1.45
SRCPARAM	L0000038	0.00000009259	3.11	4.19	1.45
SRCPARAM	L0000039	0.00000009259	3.11	4.19	1.45
SRCPARAM	L0000040	0.00000009259	3.11	4.19	1.45
SRCPARAM	L0000041	0.00000009259	3.11	4.19	1.45
SRCPARAM	L0000042	0.00000009259	3.11	4.19	1.45
SRCPARAM	L0000043	0.00000009259	3.11	4.19	1.45
SRCPARAM	L0000044	0.00000009259	3.11	4.19	1.45
SRCPARAM	L0000045	0.00000009259	3.11	4.19	1.45
SRCPARAM	L0000046	0.00000009259	3.11	4.19	1.45
SRCPARAM	L0000047	0.00000009259	3.11	4.19	1.45
SRCPARAM	L0000048	0.00000009259	3.11	4.19	1.45
SRCPARAM	L0000049	0.00000009259	3.11	4.19	1.45
SRCPARAM	L0000050	0.00000009259	3.11	4.19	1.45
SRCPARAM	L0000051	0.00000009259	3.11	4.19	1.45
SRCPARAM	L0000052	0.00000009259	3.11	4.19	1.45
SRCPARAM	L0000053	0.00000009259	3.11	4.19	1.45
SRCPARAM	L0000054	0.00000009259	3.11	4.19	1.45
SRCPARAM	L0000055	0.00000009259	3.11	4.19	1.45
SRCPARAM	L0000056	0.00000009259	3.11	4.19	1.45
SRCPARAM	L0000057	0.00000009259	3.11	4.19	1.45
SRCPARAM	L0000058	0.00000009259	3.11	4.19	1.45
SRCPARAM	L0000059	0.00000009259	3.11	4.19	1.45
SRCPARAM	L0000060	0.00000009259	3.11	4.19	1.45
SRCPARAM	L0000061	0.00000009259	3.11	4.19	1.45
SRCPARAM	L0000062	0.00000009259	3.11	4.19	1.45
SRCPARAM	L0000063	0.00000009259	3.11	4.19	1.45
SRCPARAM	L0000064	0.00000009259	3.11	4.19	1.45
SRCPARAM	L0000065	0.00000009259	3.11	4.19	1.45
SRCPARAM	L0000066	0.00000009259	3.11	4.19	1.45
SRCPARAM	L0000067	0.00000009259	3.11	4.19	1.45
SRCPARAM	L0000068	0.00000009259	3.11	4.19	1.45
SRCPARAM	L0000069	0.00000009259	3.11	4.19	1.45
SRCPARAM	L0000070	0.00000009259	3.11	4.19	1.45
SRCPARAM	L0000071	0.00000009259	3.11	4.19	1.45
SRCPARAM	L0000072	0.00000009259	3.11	4.19	1.45
SRCPARAM	L0000073	0.00000009259	3.11	4.19	1.45
SRCPARAM	L0000074	0.00000009259	3.11	4.19	1.45
SRCPARAM	L0000075	0.00000009259	3.11	4.19	1.45
SRCPARAM	L0000076	0.00000009259	3.11	4.19	1.45
SRCPARAM	L0000077	0.00000009259	3.11	4.19	1.45
SRCPARAM	L0000078	0.00000009259	3.11	4.19	1.45
SRCPARAM	L0000079	0.00000009259	3.11	4.19	1.45
SRCPARAM	L0000080	0.00000009259	3.11	4.19	1.45
SRCPARAM	L0000081	0.00000009259	3.11	4.19	1.45
SRCPARAM	L0000082	0.00000009259	3.11	4.19	1.45

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   SRCPARAM L0000083     0.00000009259      3.11      4.19      1.45
   SRCPARAM L0000084     0.00000009259      3.11      4.19      1.45
   SRCPARAM L0000085     0.00000009259      3.11      4.19      1.45
   SRCPARAM L0000086     0.00000009259      3.11      4.19      1.45
   SRCPARAM L0000087     0.00000009259      3.11      4.19      1.45
   SRCPARAM L0000088     0.00000009259      3.11      4.19      1.45
   SRCPARAM L0000089     0.00000009259      3.11      4.19      1.45
   SRCPARAM L0000090     0.00000009259      3.11      4.19      1.45
   SRCPARAM L0000091     0.00000009259      3.11      4.19      1.45
   SRCPARAM L0000092     0.00000009259      3.11      4.19      1.45
   SRCPARAM L0000093     0.00000009259      3.11      4.19      1.45
   SRCPARAM L0000094     0.00000009259      3.11      4.19      1.45
   SRCPARAM L0000095     0.00000009259      3.11      4.19      1.45
   SRCPARAM L0000096     0.00000009259      3.11      4.19      1.45
   SRCPARAM L0000097     0.00000009259      3.11      4.19      1.45
   SRCPARAM L0000098     0.00000009259      3.11      4.19      1.45
   SRCPARAM L0000099     0.00000009259      3.11      4.19      1.45
   SRCPARAM L0000100     0.00000009259      3.11      4.19      1.45
   SRCPARAM L0000101     0.00000009259      3.11      4.19      1.45
   SRCPARAM L0000102     0.00000009259      3.11      4.19      1.45
   SRCPARAM L0000103     0.00000009259      3.11      4.19      1.45
   SRCPARAM L0000104     0.00000009259      3.11      4.19      1.45
   SRCPARAM L0000105     0.00000009259      3.11      4.19      1.45
   SRCPARAM L0000106     0.00000009259      3.11      4.19      1.45
   SRCPARAM L0000107     0.00000009259      3.11      4.19      1.45
   SRCPARAM L0000108     0.00000009259      3.11      4.19      1.45
** ---------------------------------------------------------------------
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   URBANSRC PAREA1
   URBANSRC L0000001
   URBANSRC L0000002
   URBANSRC L0000003
   URBANSRC L0000004
   URBANSRC L0000005
   URBANSRC L0000006
   URBANSRC L0000007
   URBANSRC L0000008
   URBANSRC L0000009
   URBANSRC L0000010
   URBANSRC L0000011
   URBANSRC L0000012
   URBANSRC L0000013
   URBANSRC L0000014
   URBANSRC L0000015
   URBANSRC L0000016
   URBANSRC L0000017
   URBANSRC L0000018
   URBANSRC L0000019
   URBANSRC L0000020
   URBANSRC L0000021
   URBANSRC L0000022
   URBANSRC L0000023
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URBANSRC L0000024
URBANSRC L0000025
URBANSRC L0000026
URBANSRC L0000027
URBANSRC L0000028
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URBANSRC L0000030
URBANSRC L0000031
URBANSRC L0000032
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URBANSRC L0000070
URBANSRC L0000071
URBANSRC L0000072
URBANSRC L0000073
URBANSRC L0000074
URBANSRC L0000075
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   URBANSRC L0000076
   URBANSRC L0000077
   URBANSRC L0000078
   URBANSRC L0000079
   URBANSRC L0000080
   URBANSRC L0000081
   URBANSRC L0000082
   URBANSRC L0000083
   URBANSRC L0000084
   URBANSRC L0000085
   URBANSRC L0000086
   URBANSRC L0000087
   URBANSRC L0000088
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   URBANSRC L0000096
   URBANSRC L0000097
   URBANSRC L0000098
   URBANSRC L0000099
   URBANSRC L0000100
   URBANSRC L0000101
   URBANSRC L0000102
   URBANSRC L0000103
   URBANSRC L0000104
   URBANSRC L0000105
   URBANSRC L0000106
   URBANSRC L0000107
   URBANSRC L0000108

** Variable Emissions Type: "By Hour / Day (HRDOW)"
** Variable Emission Scenario: "Scenario 2"
** WeekDays:
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PAREA1       HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PAREA1       HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
** Saturday:
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PAREA1       HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PAREA1       HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
```

```
EMISFACT L0000001     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000001     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000001     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000001     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000002     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000002     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000002     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000002     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000003     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000003     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000003     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000003     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000004     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000004     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000004     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000004     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000005     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000005     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000005     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000005     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000006     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000006     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000006     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000006     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000007     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000007     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000007     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000007     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000008     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000008     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000008     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000008     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000009     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000009     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000009     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000009     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000010     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000010     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000010     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000010     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000011     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000011     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000011     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000011     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000012     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000012     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000012     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000012     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000013     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000013     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000013     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000013     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
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EMISFACT L0000014     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000014     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000014     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000014     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000015     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000015     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000015     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000015     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000016     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000016     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000016     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000016     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000017     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000017     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000017     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000017     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000018     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000018     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000018     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000018     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000019     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000019     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000019     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000019     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000020     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000020     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000020     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000020     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000021     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000021     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000021     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000021     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000022     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000022     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000022     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000022     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000023     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000023     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000023     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000023     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000024     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000024     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000024     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000024     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000025     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000025     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000025     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000025     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000026     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000026     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000026     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000026     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
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EMISFACT L0000027     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000027     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000027     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000027     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000028     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000028     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
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EMISFACT L0000028     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
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EMISFACT L0000052     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000052     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000052     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000053     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000053     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000053     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
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EMISFACT L0000060     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000060     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000061     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
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EMISFACT L0000065     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
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EMISFACT L0000087     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
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EMISFACT L0000098     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
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EMISFACT L0000100     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
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EMISFACT L0000108     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000108     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000108     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
SRCGROUP Area     PAREA1
```

```
   SRCGROUP Line     L0000001 L0000002 L0000003 L0000004 L0000005
L0000006
   SRCGROUP Line     L0000007 L0000008 L0000009 L0000010 L0000011
L0000012
   SRCGROUP Line     L0000013 L0000014 L0000015 L0000016 L0000017
L0000018
   SRCGROUP Line     L0000019 L0000020 L0000021 L0000022 L0000023
L0000024
   SRCGROUP Line     L0000025 L0000026 L0000027 L0000028 L0000029
L0000030
   SRCGROUP Line     L0000031 L0000032 L0000033 L0000034 L0000035
L0000036
   SRCGROUP Line     L0000037 L0000038 L0000039 L0000040 L0000041
L0000042
   SRCGROUP Line     L0000043 L0000044 L0000045 L0000046 L0000047
L0000048
   SRCGROUP Line     L0000049 L0000050 L0000051 L0000052 L0000053
L0000054
   SRCGROUP Line     L0000055 L0000056 L0000057 L0000058 L0000059
L0000060
   SRCGROUP Line     L0000061 L0000062 L0000063 L0000064 L0000065
L0000066
   SRCGROUP Line     L0000067 L0000068 L0000069 L0000070 L0000071
L0000072
   SRCGROUP Line     L0000073 L0000074 L0000075 L0000076 L0000077
L0000078
   SRCGROUP Line     L0000079 L0000080 L0000081 L0000082 L0000083
L0000084
   SRCGROUP Line     L0000085 L0000086 L0000087 L0000088 L0000089
L0000090
   SRCGROUP Line     L0000091 L0000092 L0000093 L0000094 L0000095
L0000096
   SRCGROUP Line     L0000097 L0000098 L0000099 L0000100 L0000101
L0000102
   SRCGROUP Line     L0000103 L0000104 L0000105 L0000106 L0000107
L0000108
   SRCGROUP ALL
SO FINISHED
**
****************************************
** AERMOD Receptor Pathway
****************************************
**
**
RE STARTING
   INCLUDED self-storage.rou
RE FINISHED
**
****************************************
** AERMOD Meteorology Pathway
****************************************
**
```

```
**
ME STARTING
   SURFFILE ..\..\724955\724955.SFC
   PROFFILE ..\..\724955\724955.PFL
   SURFDATA 93227 2009
   UAIRDATA 23230 2009 OAKLAND/WSO_AP
   PROFBASE 4.3 METERS
ME FINISHED
**
****************************************
** AERMOD Output Pathway
****************************************
**
**
OU STARTING
** Auto-Generated Plotfiles
   PLOTFILE ANNUAL ALL SELF-STORAGE.AD\AN00GALL.PLT 31
   PLOTFILE ANNUAL Area SELF-STORAGE.AD\AN00G001.PLT 32
   PLOTFILE ANNUAL Line SELF-STORAGE.AD\AN00G002.PLT 33
   SUMMFILE self-storage.sum
OU FINISHED


  *** Message Summary For AERMOD Model Setup ***

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

 A Total of            0 Fatal Error Message(s)
 A Total of            1 Warning Message(s)
 A Total of            0 Informational Message(s)


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


    ********   WARNING MESSAGES   ********
 CO W320      22       URBOPT: Input Parameter May Be Out-of-Range for
Parameter       URB-POP

 ***********************************
 *** SETUP Finishes Successfully ***
 ***********************************


 *** AERMOD - VERSION 16216r ***   ***
C:\Users\xli\Desktop\construction HRA storage facility\construction
***        03/20/18
 *** AERMET - VERSION  14134 ***   ***
***        11:54:46

PAGE   1
```

```
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                                                  ***     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 URBAN Dispersion Algorithm for the SBL for   109
Source(s),
   for Total of    1 Urban Area(s):
   Urban Population =     10000.0 ;  Urban Roughness Length =  1.000 m

 **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.
        6. Urban Roughness Length of 1.0 Meter Assumed.

 **Other Options Specified:
        CCVR_Sub - Meteorological data includes CCVR substitutions
        TEMP_Sub - Meteorological data includes TEMP substitutions

 **Model Assumes No FLAGPOLE Receptor Heights.

 **The User Specified a Pollutant Type of:  DPM

 **Model Calculates ANNUAL Averages Only

 **This Run Includes:    109 Source(s);       3 Source Group(s); and
40 Receptor(s)

                with:      0 POINT(s), including
                           0 POINTCAP(s) and      0 POINTHOR(s)
                 and:    108 VOLUME source(s)
                 and:      1 AREA type source(s)
                 and:      0 LINE source(s)
                 and:      0 OPENPIT source(s)
                 and:      0 BUOYANT LINE source(s) with      0 line(s)


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

```
 **The AERMET Input Meteorological Data Version Date:  14134

 **Output Options Selected:
          Model Outputs Tables of ANNUAL Averages by Receptor
          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) =
4.30 ;  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 =      3.7 MB of RAM.

 **Detailed Error/Message File:   self-storage.err
 **File for Summary of Results:   self-storage.sum

 *** AERMOD - VERSION 16216r ***   ***
C:\Users\xli\Desktop\construction HRA storage facility\construction
***        03/20/18
 *** AERMET - VERSION  14134 ***   ***
***        11:54:46

PAGE   2
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN


                                                     *** VOLUME SOURCE
DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE
INIT.    INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT
SY       SZ     SOURCE  SCALAR VARY
     ID         CATS.                (METERS) (METERS) (METERS) (METERS)
(METERS) (METERS)              BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 L0000001         0   0.92590E-07  564439.3 4207642.5    20.0     3.11
4.19     1.45     YES   HRDOW
```

L0000002	0	0.92590E-07	564447.9	4207639.9	20.0	3.11	4.19	1.45	YES	HRDOW
L0000003	0	0.92590E-07	564456.5	4207637.2	20.0	3.11	4.19	1.45	YES	HRDOW
L0000004	0	0.92590E-07	564465.0	4207634.5	20.0	3.11	4.19	1.45	YES	HRDOW
L0000005	0	0.92590E-07	564473.6	4207631.9	19.9	3.11	4.19	1.45	YES	HRDOW
L0000006	0	0.92590E-07	564482.2	4207629.2	19.9	3.11	4.19	1.45	YES	HRDOW
L0000007	0	0.92590E-07	564490.8	4207626.5	19.8	3.11	4.19	1.45	YES	HRDOW
L0000008	0	0.92590E-07	564499.4	4207623.9	19.7	3.11	4.19	1.45	YES	HRDOW
L0000009	0	0.92590E-07	564508.0	4207621.2	19.7	3.11	4.19	1.45	YES	HRDOW
L0000010	0	0.92590E-07	564516.6	4207618.5	19.6	3.11	4.19	1.45	YES	HRDOW
L0000011	0	0.92590E-07	564525.2	4207615.8	19.6	3.11	4.19	1.45	YES	HRDOW
L0000012	0	0.92590E-07	564533.8	4207613.2	19.5	3.11	4.19	1.45	YES	HRDOW
L0000013	0	0.92590E-07	564542.4	4207610.5	19.5	3.11	4.19	1.45	YES	HRDOW
L0000014	0	0.92590E-07	564551.1	4207608.1	19.4	3.11	4.19	1.45	YES	HRDOW
L0000015	0	0.92590E-07	564559.8	4207606.1	19.4	3.11	4.19	1.45	YES	HRDOW
L0000016	0	0.92590E-07	564568.6	4207604.0	19.2	3.11	4.19	1.45	YES	HRDOW
L0000017	0	0.92590E-07	564577.4	4207602.0	19.1	3.11	4.19	1.45	YES	HRDOW
L0000018	0	0.92590E-07	564586.1	4207599.9	19.0	3.11	4.19	1.45	YES	HRDOW
L0000019	0	0.92590E-07	564594.9	4207597.9	18.9	3.11	4.19	1.45	YES	HRDOW
L0000020	0	0.92590E-07	564603.7	4207595.8	18.9	3.11	4.19	1.45	YES	HRDOW
L0000021	0	0.92590E-07	564612.4	4207593.7	19.0	3.11	4.19	1.45	YES	HRDOW
L0000022	0	0.92590E-07	564621.2	4207591.7	19.0	3.11	4.19	1.45	YES	HRDOW
L0000023	0	0.92590E-07	564629.9	4207589.6	19.0	3.11	4.19	1.45	YES	HRDOW
L0000024	0	0.92590E-07	564638.7	4207587.6	19.0	3.11	4.19	1.45	YES	HRDOW
L0000025	0	0.92590E-07	564647.5	4207585.5	19.0	3.11	4.19	1.45	YES	HRDOW
L0000026	0	0.92590E-07	564656.2	4207583.5	19.0	3.11	4.19	1.45	YES	HRDOW
L0000027	0	0.92590E-07	564665.0	4207581.4	19.0	3.11	4.19	1.45	YES	HRDOW

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 L0000028         0   0.92590E-07  564673.7 4207579.3    19.0     3.11
4.19     1.45     YES   HRDOW
 L0000029         0   0.92590E-07  564682.5 4207577.3    18.9     3.11
4.19     1.45     YES   HRDOW
 L0000030         0   0.92590E-07  564691.3 4207575.2    18.9     3.11
4.19     1.45     YES   HRDOW
 L0000031         0   0.92590E-07  564700.0 4207573.2    18.8     3.11
4.19     1.45     YES   HRDOW
 L0000032         0   0.92590E-07  564708.8 4207571.1    18.8     3.11
4.19     1.45     YES   HRDOW
 L0000033         0   0.92590E-07  564717.6 4207569.1    18.7     3.11
4.19     1.45     YES   HRDOW
 L0000034         0   0.92590E-07  564726.3 4207567.0    18.7     3.11
4.19     1.45     YES   HRDOW
 L0000035         0   0.92590E-07  564735.1 4207564.9    18.6     3.11
4.19     1.45     YES   HRDOW
 L0000036         0   0.92590E-07  564743.8 4207562.9    18.6     3.11
4.19     1.45     YES   HRDOW
 L0000037         0   0.92590E-07  564752.6 4207560.8    18.6     3.11
4.19     1.45     YES   HRDOW
 L0000038         0   0.92590E-07  564761.4 4207558.8    18.6     3.11
4.19     1.45     YES   HRDOW
 L0000039         0   0.92590E-07  564770.1 4207556.7    18.6     3.11
4.19     1.45     YES   HRDOW
 L0000040         0   0.92590E-07  564778.9 4207554.6    18.5     3.11
4.19     1.45     YES   HRDOW

 *** AERMOD - VERSION 16216r ***   ***
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PAGE   3
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN


                                                     *** VOLUME SOURCE
DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE
INIT.    INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT
SY       SZ     SOURCE  SCALAR VARY
     ID         CATS.                (METERS) (METERS) (METERS) (METERS)
(METERS) (METERS)              BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 L0000041         0   0.92590E-07  564787.6 4207552.6    18.4     3.11
4.19     1.45     YES   HRDOW
```

L0000042	0	0.92590E-07	564796.4	4207550.5	18.3	3.11	4.19	1.45	YES	HRDOW
L0000043	0	0.92590E-07	564805.3	4207549.8	18.2	3.11	4.19	1.45	YES	HRDOW
L0000044	0	0.92590E-07	564814.2	4207550.7	18.1	3.11	4.19	1.45	YES	HRDOW
L0000045	0	0.92590E-07	564823.2	4207551.5	18.6	3.11	4.19	1.45	YES	HRDOW
L0000046	0	0.92590E-07	564832.1	4207552.4	19.1	3.11	4.19	1.45	YES	HRDOW
L0000047	0	0.92590E-07	564841.1	4207553.2	19.6	3.11	4.19	1.45	YES	HRDOW
L0000048	0	0.92590E-07	564850.1	4207554.1	20.1	3.11	4.19	1.45	YES	HRDOW
L0000049	0	0.92590E-07	564859.0	4207554.9	20.7	3.11	4.19	1.45	YES	HRDOW
L0000050	0	0.92590E-07	564868.0	4207555.8	21.2	3.11	4.19	1.45	YES	HRDOW
L0000051	0	0.92590E-07	564876.9	4207556.6	21.7	3.11	4.19	1.45	YES	HRDOW
L0000052	0	0.92590E-07	564885.9	4207557.5	22.2	3.11	4.19	1.45	YES	HRDOW
L0000053	0	0.92590E-07	564894.9	4207558.4	22.4	3.11	4.19	1.45	YES	HRDOW
L0000054	0	0.92590E-07	564903.8	4207559.2	22.7	3.11	4.19	1.45	YES	HRDOW
L0000055	0	0.92590E-07	564912.8	4207560.1	23.0	3.11	4.19	1.45	YES	HRDOW
L0000056	0	0.92590E-07	564921.7	4207560.9	23.3	3.11	4.19	1.45	YES	HRDOW
L0000057	0	0.92590E-07	564930.7	4207561.8	23.5	3.11	4.19	1.45	YES	HRDOW
L0000058	0	0.92590E-07	564939.7	4207562.6	23.8	3.11	4.19	1.45	YES	HRDOW
L0000059	0	0.92590E-07	564948.6	4207563.5	24.1	3.11	4.19	1.45	YES	HRDOW
L0000060	0	0.92590E-07	564957.6	4207564.3	24.4	3.11	4.19	1.45	YES	HRDOW
L0000061	0	0.92590E-07	564966.5	4207565.2	24.6	3.11	4.19	1.45	YES	HRDOW
L0000062	0	0.92590E-07	564975.5	4207566.0	24.9	3.11	4.19	1.45	YES	HRDOW
L0000063	0	0.92590E-07	564984.4	4207566.9	25.2	3.11	4.19	1.45	YES	HRDOW
L0000064	0	0.92590E-07	564993.4	4207567.8	25.5	3.11	4.19	1.45	YES	HRDOW
L0000065	0	0.92590E-07	565002.4	4207568.6	25.8	3.11	4.19	1.45	YES	HRDOW
L0000066	0	0.92590E-07	565011.3	4207569.5	26.1	3.11	4.19	1.45	YES	HRDOW
L0000067	0	0.92590E-07	565020.3	4207570.3	26.4	3.11	4.19	1.45	YES	HRDOW

```
 L0000068         0   0.92590E-07  565029.2 4207571.2    26.7     3.11
4.19     1.45     YES   HRDOW
 L0000069         0   0.92590E-07  565038.2 4207572.0    26.9     3.11
4.19     1.45     YES   HRDOW
 L0000070         0   0.92590E-07  565047.2 4207572.9    27.2     3.11
4.19     1.45     YES   HRDOW
 L0000071         0   0.92590E-07  565056.1 4207573.7    27.4     3.11
4.19     1.45     YES   HRDOW
 L0000072         0   0.92590E-07  565065.1 4207574.6    27.6     3.11
4.19     1.45     YES   HRDOW
 L0000073         0   0.92590E-07  565074.0 4207575.5    27.8     3.11
4.19     1.45     YES   HRDOW
 L0000074         0   0.92590E-07  565083.0 4207576.3    28.0     3.11
4.19     1.45     YES   HRDOW
 L0000075         0   0.92590E-07  565092.0 4207577.2    28.2     3.11
4.19     1.45     YES   HRDOW
 L0000076         0   0.92590E-07  565100.9 4207578.0    28.4     3.11
4.19     1.45     YES   HRDOW
 L0000077         0   0.92590E-07  565109.9 4207578.9    28.7     3.11
4.19     1.45     YES   HRDOW
 L0000078         0   0.92590E-07  565118.8 4207579.7    29.1     3.11
4.19     1.45     YES   HRDOW
 L0000079         0   0.92590E-07  565127.8 4207580.6    29.4     3.11
4.19     1.45     YES   HRDOW
 L0000080         0   0.92590E-07  565136.8 4207581.4    29.7     3.11
4.19     1.45     YES   HRDOW
```



```
                                                    *** VOLUME SOURCE
DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE
INIT.    INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT
SY       SZ     SOURCE  SCALAR VARY
     ID         CATS.                (METERS) (METERS) (METERS) (METERS)
(METERS) (METERS)              BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 L0000081         0   0.92590E-07  565145.7 4207582.3    30.1     3.11
4.19     1.45     YES   HRDOW
```

L0000082	0	0.92590E-07	565154.7	4207583.2	30.4	3.11	4.19	1.45	YES	HRDOW
L0000083	0	0.92590E-07	565163.6	4207584.0	30.8	3.11	4.19	1.45	YES	HRDOW
L0000084	0	0.92590E-07	565172.6	4207584.9	31.1	3.11	4.19	1.45	YES	HRDOW
L0000085	0	0.92590E-07	565181.6	4207585.7	31.3	3.11	4.19	1.45	YES	HRDOW
L0000086	0	0.92590E-07	565190.5	4207586.6	31.2	3.11	4.19	1.45	YES	HRDOW
L0000087	0	0.92590E-07	565199.5	4207587.4	31.1	3.11	4.19	1.45	YES	HRDOW
L0000088	0	0.92590E-07	565208.4	4207588.3	31.0	3.11	4.19	1.45	YES	HRDOW
L0000089	0	0.92590E-07	565217.4	4207589.1	30.9	3.11	4.19	1.45	YES	HRDOW
L0000090	0	0.92590E-07	565226.3	4207590.3	30.8	3.11	4.19	1.45	YES	HRDOW
L0000091	0	0.92590E-07	565234.6	4207593.6	30.7	3.11	4.19	1.45	YES	HRDOW
L0000092	0	0.92590E-07	565243.0	4207597.0	30.6	3.11	4.19	1.45	YES	HRDOW
L0000093	0	0.92590E-07	565241.5	4207590.9	30.5	3.11	4.19	1.45	YES	HRDOW
L0000094	0	0.92590E-07	565237.7	4207582.7	30.5	3.11	4.19	1.45	YES	HRDOW
L0000095	0	0.92590E-07	565233.9	4207574.6	30.4	3.11	4.19	1.45	YES	HRDOW
L0000096	0	0.92590E-07	565230.2	4207566.4	30.2	3.11	4.19	1.45	YES	HRDOW
L0000097	0	0.92590E-07	565226.4	4207558.2	30.1	3.11	4.19	1.45	YES	HRDOW
L0000098	0	0.92590E-07	565222.7	4207550.0	29.9	3.11	4.19	1.45	YES	HRDOW
L0000099	0	0.92590E-07	565218.9	4207541.9	29.7	3.11	4.19	1.45	YES	HRDOW
L0000100	0	0.92590E-07	565215.2	4207533.7	29.6	3.11	4.19	1.45	YES	HRDOW
L0000101	0	0.92590E-07	565211.2	4207525.6	29.3	3.11	4.19	1.45	YES	HRDOW
L0000102	0	0.92590E-07	565205.2	4207518.9	29.1	3.11	4.19	1.45	YES	HRDOW
L0000103	0	0.92590E-07	565199.2	4207512.2	28.9	3.11	4.19	1.45	YES	HRDOW
L0000104	0	0.92590E-07	565193.2	4207505.5	28.6	3.11	4.19	1.45	YES	HRDOW
L0000105	0	0.92590E-07	565187.3	4207498.7	28.3	3.11	4.19	1.45	YES	HRDOW
L0000106	0	0.92590E-07	565181.3	4207492.0	28.0	3.11	4.19	1.45	YES	HRDOW
L0000107	0	0.92590E-07	565175.3	4207485.3	27.6	3.11	4.19	1.45	YES	HRDOW

```
 L0000108         0   0.92590E-07  565169.3 4207478.6    27.2     3.11
4.19     1.45     YES   HRDOW

 *** AERMOD - VERSION 16216r ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN


                                                    *** AREAPOLY SOURCE
DATA ***

               NUMBER EMISSION RATE   LOCATION OF AREA  BASE
RELEASE  NUMBER      INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC       X        Y      ELEV.
HEIGHT  OF VERTS.     SZ     SOURCE  SCALAR VARY
     ID         CATS.   /METER**2)   (METERS) (METERS) (METERS)
(METERS)            (METERS)              BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 PAREA1           0   0.10000E-04  565154.8 4207454.4    25.9     5.00
7         0.00     YES   HRDOW

 *** AERMOD - VERSION 16216r ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN


                                                *** SOURCE IDs DEFINING
SOURCE GROUPS ***

 SRCGROUP ID                                                SOURCE IDs
 -----------                                                ----------


  AREA       PAREA1      ,

  LINE       L0000001    , L0000002    , L0000003    , L0000004    ,
L0000005    , L0000006    , L0000007    , L0000008    ,

             L0000009    , L0000010    , L0000011    , L0000012    ,
L0000013    , L0000014    , L0000015    , L0000016    ,
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             L0000017    , L0000018    , L0000019    , L0000020    ,
L0000021    , L0000022    , L0000023    , L0000024    ,

             L0000025    , L0000026    , L0000027    , L0000028    ,
L0000029    , L0000030    , L0000031    , L0000032    ,

             L0000033    , L0000034    , L0000035    , L0000036    ,
L0000037    , L0000038    , L0000039    , L0000040    ,

             L0000041    , L0000042    , L0000043    , L0000044    ,
L0000045    , L0000046    , L0000047    , L0000048    ,

             L0000049    , L0000050    , L0000051    , L0000052    ,
L0000053    , L0000054    , L0000055    , L0000056    ,

             L0000057    , L0000058    , L0000059    , L0000060    ,
L0000061    , L0000062    , L0000063    , L0000064    ,

             L0000065    , L0000066    , L0000067    , L0000068    ,
L0000069    , L0000070    , L0000071    , L0000072    ,

             L0000073    , L0000074    , L0000075    , L0000076    ,
L0000077    , L0000078    , L0000079    , L0000080    ,

             L0000081    , L0000082    , L0000083    , L0000084    ,
L0000085    , L0000086    , L0000087    , L0000088    ,

             L0000089    , L0000090    , L0000091    , L0000092    ,
L0000093    , L0000094    , L0000095    , L0000096    ,

             L0000097    , L0000098    , L0000099    , L0000100    ,
L0000101    , L0000102    , L0000103    , L0000104    ,

             L0000105    , L0000106    , L0000107    , L0000108    ,

  ALL        PAREA1      , L0000001    , L0000002    , L0000003    ,
L0000004    , L0000005    , L0000006    , L0000007    ,

             L0000008    , L0000009    , L0000010    , L0000011    ,
L0000012    , L0000013    , L0000014    , L0000015    ,

             L0000016    , L0000017    , L0000018    , L0000019    ,
L0000020    , L0000021    , L0000022    , L0000023    ,

             L0000024    , L0000025    , L0000026    , L0000027    ,
L0000028    , L0000029    , L0000030    , L0000031    ,

             L0000032    , L0000033    , L0000034    , L0000035    ,
L0000036    , L0000037    , L0000038    , L0000039    ,
```

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
	L0000040 , L0000041 , L0000042 , L0000043 , L0000044 , L0000045 , L0000046 , L0000047 ,
	L0000048 , L0000049 , L0000050 , L0000051 , L0000052 , L0000053 , L0000054 , L0000055 ,
	L0000056 , L0000057 , L0000058 , L0000059 , L0000060 , L0000061 , L0000062 , L0000063 ,
	L0000064 , L0000065 , L0000066 , L0000067 , L0000068 , L0000069 , L0000070 , L0000071 ,
	L0000072 , L0000073 , L0000074 , L0000075 , L0000076 , L0000077 , L0000078 , L0000079 ,
	L0000080 , L0000081 , L0000082 , L0000083 , L0000084 , L0000085 , L0000086 , L0000087 ,
	L0000088 , L0000089 , L0000090 , L0000091 , L0000092 , L0000093 , L0000094 , L0000095 ,
	L0000096 , L0000097 , L0000098 , L0000099 , L0000100 , L0000101 , L0000102 , L0000103 ,
	L0000104 , L0000105 , L0000106 , L0000107 , L0000108 ,

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
PAREA1	10000.	L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 ,
		L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 ,
		L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 ,
		L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , L0000029 , L0000030 , L0000031 ,
		L0000032 , L0000033 , L0000034 , L0000035 , L0000036 , L0000037 , L0000038 , L0000039 ,
		L0000040 , L0000041 , L0000042 , L0000043 , L0000044 , L0000045 , L0000046 , L0000047 ,
		L0000048 , L0000049 , L0000050 , L0000051 , L0000052 , L0000053 , L0000054 , L0000055 ,
		L0000056 , L0000057 , L0000058 , L0000059 , L0000060 , L0000061 , L0000062 , L0000063 ,
		L0000064 , L0000065 , L0000066 , L0000067 , L0000068 , L0000069 , L0000070 , L0000071 ,
		L0000072 , L0000073 , L0000074 , L0000075 , L0000076 , L0000077 , L0000078 , L0000079 ,
		L0000080 , L0000081 , L0000082 , L0000083 , L0000084 , L0000085 , L0000086 , L0000087 ,
		L0000088 , L0000089 , L0000090 , L0000091 , L0000092 , L0000093 , L0000094 , L0000095 ,
		L0000096 , L0000097 , L0000098 , L0000099 , L0000100 , L0000101 , L0000102 , L0000103 ,
		L0000104 , L0000105 , L0000106 , L0000107 , L0000108 ,

```
                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = PAREA1       ; SOURCE TYPE = AREAPOLY :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```



```
                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000001     ; SOURCE TYPE = VOLUME   :
```

```
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   ***
C:\Users\xli\Desktop\construction HRA storage facility\construction
***        03/20/18
 *** AERMET - VERSION  14134 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000002     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   ***
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 *** AERMET - VERSION  14134 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000003     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000004 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.1000E+01	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.1000E+01	20	.1000E+01
21	.1000E+01	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

```
 SOURCE ID = L0000005     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000006     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000007     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000008 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.1000E+01	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.1000E+01	20	.1000E+01
21	.1000E+01	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

```
 SOURCE ID = L0000009     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   ***
C:\Users\xli\Desktop\construction HRA storage facility\construction
***        03/20/18
 *** AERMET - VERSION  14134 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000010     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000011     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000012 ; SOURCE TYPE = VOLUME :

```
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```


* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

```
 SOURCE ID = L0000013     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                 DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000014     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                 DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SATURDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   ***
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***        03/20/18
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000015     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000016 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.1000E+01
8	.1000E+01	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.1000E+01	18	.1000E+01	19	.1000E+01	20	.1000E+01	21	.1000E+01
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.1000E+01	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SUNDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.1000E+01	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

```
 SOURCE ID = L0000017     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                 DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000018     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                 DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SATURDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000019     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000020 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.1000E+01	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.1000E+01	20	.1000E+01
21	.1000E+01	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

```
 SOURCE ID = L0000021     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000022     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000023     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000024 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.1000E+01	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.1000E+01	20	.1000E+01
21	.1000E+01	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

```
 SOURCE ID = L0000025     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000026     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000027     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000028 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.1000E+01
8	.1000E+01	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.1000E+01	18	.1000E+01	19	.1000E+01	20	.1000E+01	21	.1000E+01
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.1000E+01	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SUNDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.1000E+01	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

```
 SOURCE ID = L0000029     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   ***
C:\Users\xli\Desktop\construction HRA storage facility\construction
***        03/20/18
 *** AERMET - VERSION  14134 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000030     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000031     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000032 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.1000E+01
8	.1000E+01	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.1000E+01	18	.1000E+01	19	.1000E+01	20	.1000E+01	21	.1000E+01
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.1000E+01	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SUNDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.1000E+01	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

```
 SOURCE ID = L0000033     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000034     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   ***
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***        03/20/18
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000035     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000036 ; SOURCE TYPE = VOLUME :

```
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```


* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

```
 SOURCE ID = L0000037     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                 DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   ***
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***        03/20/18
 *** AERMET - VERSION  14134 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000038     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                 DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SATURDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   ***
C:\Users\xli\Desktop\construction HRA storage facility\construction
***        03/20/18
 *** AERMET - VERSION  14134 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000039     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000040 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.1000E+01
8	.1000E+01	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.1000E+01	18	.1000E+01	19	.1000E+01	20	.1000E+01	21	.1000E+01
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.1000E+01	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SUNDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.1000E+01	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

```
 SOURCE ID = L0000041     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   ***
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***        03/20/18
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000042     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   ***
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 *** AERMET - VERSION  14134 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000043     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000044 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.1000E+01
8	.1000E+01	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.1000E+01	18	.1000E+01	19	.1000E+01	20	.1000E+01	21	.1000E+01
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.1000E+01	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SUNDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.1000E+01	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

```
 SOURCE ID = L0000045     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   ***
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***        03/20/18
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000046     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   ***
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 *** AERMET - VERSION  14134 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000047     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000048 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.1000E+01
8	.1000E+01	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.1000E+01	18	.1000E+01	19	.1000E+01	20	.1000E+01	21	.1000E+01
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.1000E+01	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SUNDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.1000E+01	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

```
 SOURCE ID = L0000049     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   ***
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***        03/20/18
 *** AERMET - VERSION  14134 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000050     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   ***
C:\Users\xli\Desktop\construction HRA storage facility\construction
***        03/20/18
 *** AERMET - VERSION  14134 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000051     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000052 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.1000E+01	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.1000E+01	20	.1000E+01
21	.1000E+01	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

```
 SOURCE ID = L0000053     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   ***
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***        03/20/18
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000054     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   ***
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***        03/20/18
 *** AERMET - VERSION  14134 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000055     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000056 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.1000E+01
8	.1000E+01	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.1000E+01	18	.1000E+01	19	.1000E+01	20	.1000E+01	21	.1000E+01
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.1000E+01	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SUNDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.1000E+01	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

```
 SOURCE ID = L0000057     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   ***
C:\Users\xli\Desktop\construction HRA storage facility\construction
***        03/20/18
 *** AERMET - VERSION  14134 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000058     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000059     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000060 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.1000E+01	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.1000E+01	20	.1000E+01
21	.1000E+01	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

```
 SOURCE ID = L0000061     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   ***
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***        03/20/18
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000062     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   ***
C:\Users\xli\Desktop\construction HRA storage facility\construction
***        03/20/18
 *** AERMET - VERSION  14134 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000063     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000064 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.1000E+01	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.1000E+01	20	.1000E+01
21	.1000E+01	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

```
 SOURCE ID = L0000065     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   ***
C:\Users\xli\Desktop\construction HRA storage facility\construction
***        03/20/18
 *** AERMET - VERSION  14134 ***   ***
***        11:54:46

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000066     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   ***
C:\Users\xli\Desktop\construction HRA storage facility\construction
***        03/20/18
 *** AERMET - VERSION  14134 ***   ***
***        11:54:46

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000067     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000068 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.1000E+01	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.1000E+01	20	.1000E+01
21	.1000E+01	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

```
 SOURCE ID = L0000069     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   ***
C:\Users\xli\Desktop\construction HRA storage facility\construction
***        03/20/18
 *** AERMET - VERSION  14134 ***   ***
***        11:54:46

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000070     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   ***
C:\Users\xli\Desktop\construction HRA storage facility\construction
***        03/20/18
 *** AERMET - VERSION  14134 ***   ***
***        11:54:46

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000071     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000072 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.1000E+01	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.1000E+01	20	.1000E+01
21	.1000E+01	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

```
 SOURCE ID = L0000073     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   ***
C:\Users\xli\Desktop\construction HRA storage facility\construction
***        03/20/18
 *** AERMET - VERSION  14134 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000074     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   ***
C:\Users\xli\Desktop\construction HRA storage facility\construction
***        03/20/18
 *** AERMET - VERSION  14134 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000075     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000076 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.1000E+01
8	.1000E+01	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.1000E+01	18	.1000E+01	19	.1000E+01	20	.1000E+01	21	.1000E+01
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.1000E+01	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SUNDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.1000E+01	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

```
 SOURCE ID = L0000077     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   ***
C:\Users\xli\Desktop\construction HRA storage facility\construction
***        03/20/18
 *** AERMET - VERSION  14134 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000078     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   ***
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***        03/20/18
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000079     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000080 ; SOURCE TYPE = VOLUME :

```
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```


* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

```
 SOURCE ID = L0000081     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   ***
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***        03/20/18
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000082     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   ***
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***        03/20/18
 *** AERMET - VERSION  14134 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000083     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000084 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.1000E+01
8	.1000E+01	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.1000E+01	18	.1000E+01	19	.1000E+01	20	.1000E+01	21	.1000E+01
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.1000E+01	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SUNDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.1000E+01	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

```
 SOURCE ID = L0000085     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   ***
C:\Users\xli\Desktop\construction HRA storage facility\construction
***        03/20/18
 *** AERMET - VERSION  14134 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000086     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   ***
C:\Users\xli\Desktop\construction HRA storage facility\construction
***        03/20/18
 *** AERMET - VERSION  14134 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000087     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000088 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.1000E+01
8	.1000E+01	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.1000E+01	18	.1000E+01	19	.1000E+01	20	.1000E+01	21	.1000E+01
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.1000E+01	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SUNDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.1000E+01	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

```
 SOURCE ID = L0000089     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   ***
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***        03/20/18
 *** AERMET - VERSION  14134 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000090     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   ***
C:\Users\xli\Desktop\construction HRA storage facility\construction
***        03/20/18
 *** AERMET - VERSION  14134 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000091     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000092 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.1000E+01
8	.1000E+01	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.1000E+01	18	.1000E+01	19	.1000E+01	20	.1000E+01	21	.1000E+01
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.1000E+01	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SUNDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.1000E+01	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

```
 SOURCE ID = L0000093     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   ***
C:\Users\xli\Desktop\construction HRA storage facility\construction
***        03/20/18
 *** AERMET - VERSION  14134 ***   ***
***        11:54:46

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000094     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   ***
C:\Users\xli\Desktop\construction HRA storage facility\construction
***        03/20/18
 *** AERMET - VERSION  14134 ***   ***
***        11:54:46

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000095     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000096 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.1000E+01
8	.1000E+01	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.1000E+01	18	.1000E+01	19	.1000E+01	20	.1000E+01	21	.1000E+01
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.1000E+01	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SUNDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.1000E+01	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

```
 SOURCE ID = L0000097     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   ***
C:\Users\xli\Desktop\construction HRA storage facility\construction
***        03/20/18
 *** AERMET - VERSION  14134 ***   ***
***        11:54:46

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000098     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   ***
C:\Users\xli\Desktop\construction HRA storage facility\construction
***        03/20/18
 *** AERMET - VERSION  14134 ***   ***
***        11:54:46

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000099     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000100 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.1000E+01	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.1000E+01	20	.1000E+01
21	.1000E+01	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

```
 SOURCE ID = L0000101     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   ***
C:\Users\xli\Desktop\construction HRA storage facility\construction
***        03/20/18
 *** AERMET - VERSION  14134 ***   ***
***        11:54:46

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000102     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   ***
C:\Users\xli\Desktop\construction HRA storage facility\construction
***        03/20/18
 *** AERMET - VERSION  14134 ***   ***
***        11:54:46

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000103     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000104 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.1000E+01	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.1000E+01	20	.1000E+01
21	.1000E+01	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

```
 SOURCE ID = L0000105     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   ***
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***        03/20/18
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000106     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000107     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000108 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.1000E+01	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.1000E+01	20	.1000E+01
21	.1000E+01	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** DISCRETE CARTESIAN RECEPTORS ***

(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

```
     ( 565075.4, 4207459.3,      23.6,      23.6,       0.0);
( 565374.0, 4207297.2,      29.7,     146.0,       0.0);
     ( 565350.7, 4207277.4,      29.3,     146.0,       0.0);
( 565325.0, 4207271.5,      28.9,     146.0,       0.0);
     ( 565305.2, 4207270.4,      28.4,     127.0,       0.0);
( 565273.7, 4207262.2,      27.6,     124.0,       0.0);
     ( 565255.0, 4207254.0,      27.3,     124.0,       0.0);
( 565231.6, 4207249.4,      27.1,     124.0,       0.0);
     ( 565213.0, 4207236.5,      27.1,     124.0,       0.0);
( 565183.8, 4207233.0,      27.0,     124.0,       0.0);
     ( 565501.3, 4207312.4,      34.8,     146.0,       0.0);
( 565516.4, 4207325.2,      35.7,     146.0,       0.0);
     ( 565543.3, 4207324.1,      38.4,     146.0,       0.0);
( 565372.9, 4207269.2,      29.5,     146.0,       0.0);
     ( 565474.4, 4207265.7,      32.7,     146.0,       0.0);
( 565222.3, 4207670.7,      32.2,      60.0,       0.0);
     ( 565185.0, 4207657.9,      33.9,      60.0,       0.0);
( 565236.3, 4207708.1,      31.3,      60.0,       0.0);
     ( 565370.5, 4207706.9,      27.9,      27.9,       0.0);
( 565399.7, 4207696.4,      27.5,      27.5,       0.0);
     ( 565428.9, 4207688.2,      27.6,      92.0,       0.0);
( 565151.1, 4207652.0,      32.9,      60.0,       0.0);
     ( 565105.6, 4207646.2,      30.1,      60.0,       0.0);
( 564896.7, 4207642.7,      25.3,      60.0,       0.0);
     ( 564876.8, 4207628.7,      24.0,      60.0,       0.0);
( 564858.1, 4207614.7,      22.6,      60.0,       0.0);
     ( 564838.3, 4207611.2,      21.4,      60.0,       0.0);
( 564807.9, 4207600.7,      19.5,      60.0,       0.0);
     ( 564777.6, 4207600.7,      18.6,      60.0,       0.0);
( 564749.6, 4207603.0,      17.7,      60.0,       0.0);
     ( 564726.2, 4207605.4,      17.4,      60.0,       0.0);
( 564701.7, 4207615.9,      17.4,      60.0,       0.0);
     ( 564681.9, 4207624.0,      17.4,      60.0,       0.0);
( 564649.2, 4207633.4,      17.3,      60.0,       0.0);
     ( 564630.5, 4207640.4,      17.1,      60.0,       0.0);
( 564609.5, 4207650.9,      16.9,      60.0,       0.0);
     ( 564589.7, 4207655.6,      16.9,      60.0,       0.0);
( 564564.0, 4207668.4,      16.9,      60.0,       0.0);
     ( 564538.3, 4207678.9,      16.8,      60.0,       0.0);
( 564517.3, 4207687.1,      16.5,      60.0,       0.0);

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```

```
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                                          *** 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
```

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,

```
 *** AERMOD - VERSION 16216r ***   ***
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 *** AERMET - VERSION  14134 ***   ***
***        11:54:46
```



```
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

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

   Surface file:   ..\..\724955\724955.SFC
Met Version:  14134
   Profile file:   ..\..\724955\724955.PFL
   Surface format: FREE
```

Profile format: FREE
Surface station no.: 93227 Upper air station no.: 23230
Name: UNKNOWN Name: OAKLAND/WSO_AP
Year: 2009 Year: 2009

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
09	01	01	1	01	-2.8	0.059	-9.000	-9.000	-999.	34.	6.8	0.03	0.63	1.00	1.76	111.	10.0	279.2	2.0
09	01	01	1	02	-11.4	0.199	-9.000	-9.000	-999.	213.	62.6	0.03	0.63	1.00	3.36	98.	10.0	279.2	2.0
09	01	01	1	03	-19.9	0.345	-9.000	-9.000	-999.	485.	187.0	0.03	0.63	1.00	5.36	94.	10.0	278.1	2.0
09	01	01	1	04	-15.8	0.273	-9.000	-9.000	-999.	345.	117.7	0.03	0.63	1.00	4.36	93.	10.0	278.1	2.0
09	01	01	1	05	-13.7	0.237	-9.000	-9.000	-999.	277.	88.3	0.03	0.63	1.00	3.86	93.	10.0	278.1	2.0
09	01	01	1	06	-2.8	0.059	-9.000	-9.000	-999.	87.	6.8	0.03	0.63	1.00	1.76	92.	10.0	278.8	2.0
09	01	01	1	07	-9.1	0.158	-9.000	-9.000	-999.	151.	39.6	0.03	0.63	1.00	2.86	105.	10.0	278.8	2.0
09	01	01	1	08	-13.6	0.237	-9.000	-9.000	-999.	276.	88.5	0.03	0.63	1.00	3.86	93.	10.0	278.8	2.0
09	01	01	1	09	-9.4	0.318	-9.000	-9.000	-999.	430.	311.3	0.03	0.63	0.41	4.86	97.	10.0	278.8	2.0
09	01	01	1	10	4.8	0.296	0.220	0.016	81.	388.	-497.3	0.03	0.63	0.28	4.36	101.	10.0	279.2	2.0
09	01	01	1	11	11.8	0.301	0.366	0.016	151.	396.	-210.6	0.03	0.63	0.23	4.36	94.	10.0	279.2	2.0
09	01	01	1	12	15.7	0.335	0.450	0.016	210.	465.	-217.6	0.03	0.63	0.22	4.86	86.	10.0	279.2	2.0
09	01	01	1	13	16.4	0.291	0.488	0.016	257.	377.	-136.4	0.02	0.63	0.22	4.36	123.	10.0	279.2	2.0
09	01	01	1	14	13.8	0.334	0.480	0.016	291.	463.	-245.4	0.03	0.63	0.22	4.86	109.	10.0	279.2	2.0
09	01	01	1	15	8.1	0.202	0.411	0.015	310.	229.	-92.5	0.03	0.63	0.26	2.86	102.	10.0	279.9	2.0
09	01	01	1	16	-0.4	0.191	-9.000	-9.000	-999.	200.	1603.3	0.03	0.63	0.34	2.86	104.	10.0	279.9	2.0
09	01	01	1	17	-6.1	0.117	-9.000	-9.000	-999.	97.	23.6	0.03	0.63	0.58	2.36	111.	10.0	279.2	2.0
09	01	01	1	18	-11.4	0.199	-9.000	-9.000	-999.	213.	62.4	0.03	0.63	1.00	3.36	97.	10.0	278.8	2.0
09	01	01	1	19	-9.1	0.158	-9.000	-9.000	-999.	152.	39.6	0.03	0.63	1.00	2.86	94.	10.0	278.8	2.0

```
 09 01 01   1 20   -9.1  0.158 -9.000 -9.000 -999.  151.     39.6
0.03   0.63   1.00    2.86   87.   10.0  278.8    2.0
 09 01 01   1 21   -2.7  0.059 -9.000 -9.000 -999.   41.      6.8
0.03   0.63   1.00    1.76   90.   10.0  279.2    2.0
 09 01 01   1 22   -6.3  0.110 -9.000 -9.000 -999.   88.     19.2
0.03   0.63   1.00    2.36   72.   10.0  279.2    2.0
 09 01 01   1 23  -11.4  0.199 -9.000 -9.000 -999.  213.     62.6
0.03   0.63   1.00    3.36  100.   10.0  279.2    2.0
 09 01 01   1 24  -11.4  0.199 -9.000 -9.000 -999.  213.     62.6
0.03   0.63   1.00    3.36   90.   10.0  279.2    2.0


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
 09 01 01 01   10.0 1  111.    1.76   279.3   99.0  -99.00  -99.00

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

 *** AERMOD - VERSION 16216r ***   ***
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PAGE 121
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   *** THE ANNUAL AVERAGE CONCENTRATION    VALUES
AVERAGED OVER   5 YEARS FOR SOURCE GROUP: AREA     ***
                                   INCLUDING SOURCE(S):
PAREA1      ,

                                              *** DISCRETE CARTESIAN
RECEPTOR POINTS ***

                                         ** CONC OF DPM      IN
MICROGRAMS/M**3                           **

       X-COORD (M)   Y-COORD (M)        CONC                       X-
COORD (M)   Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         565075.43    4207459.29        1.56868
565374.04    4207297.22        1.11147
         565350.70    4207277.38        1.04941
565325.02    4207271.54        1.06886
         565305.17    4207270.37        1.08011
565273.66    4207262.20        0.99605
         565254.98    4207254.03        0.90341
565231.64    4207249.36        0.80610
         565212.96    4207236.52        0.68951
565183.78    4207233.02        0.57547
```

```
         565501.27    4207312.39        0.43397
565516.44    4207325.23        0.43197
         565543.29    4207324.07        0.35225
565372.87    4207269.21        0.91688
         565474.42    4207265.70        0.41709
565222.30    4207670.73        1.15291
         565184.95    4207657.89        0.82263
565236.31    4207708.08        1.04611
         565370.54    4207706.91        2.01093
565399.72    4207696.41        2.20314
         565428.90    4207688.24        2.28553
565151.10    4207652.05        0.68589
         565105.58    4207646.22        0.67052
564896.65    4207642.72        0.35939
         564876.80    4207628.71        0.35874
564858.13    4207614.70        0.35734
         564838.29    4207611.20        0.34017
564807.94    4207600.70        0.32227
         564777.59    4207600.70        0.29748
564749.58    4207603.03        0.27448
         564726.23    4207605.37        0.25871
564701.72    4207615.87        0.23784
         564681.88    4207624.04        0.22303
564649.20    4207633.38        0.20410
         564630.52    4207640.38        0.19286
564609.51    4207650.89        0.18012
         564589.67    4207655.56        0.17212
564563.99    4207668.40        0.15947
         564538.31    4207678.90        0.14898
564517.30    4207687.07        0.14115

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PAGE 122
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   *** THE ANNUAL AVERAGE CONCENTRATION    VALUES
AVERAGED OVER   5 YEARS FOR SOURCE GROUP: LINE     ***
                                  INCLUDING SOURCE(S):
L0000001    , L0000002    , L0000003    , L0000004    , L0000005    ,
                L0000006    , L0000007    , L0000008    ,
L0000009    , L0000010    , L0000011    , L0000012    , L0000013    ,
                L0000014    , L0000015    , L0000016    ,
L0000017    , L0000018    , L0000019    , L0000020    , L0000021    ,
                L0000022    , L0000023    , L0000024    ,
L0000025    , L0000026    , L0000027    , L0000028    ,  . . .      ,
```

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565075.43	4207459.29	0.00004	565374.04	4207297.22	0.00001
565350.70	4207277.38	0.00001	565325.02	4207271.54	0.00001
565305.17	4207270.37	0.00001	565273.66	4207262.20	0.00001
565254.98	4207254.03	0.00001	565231.64	4207249.36	0.00001
565212.96	4207236.52	0.00001	565183.78	4207233.02	0.00001
565501.27	4207312.39	0.00001	565516.44	4207325.23	0.00001
565543.29	4207324.07	0.00001	565372.87	4207269.21	0.00001
565474.42	4207265.70	0.00001	565222.30	4207670.73	0.00014
565184.95	4207657.89	0.00014	565236.31	4207708.08	0.00010
565370.54	4207706.91	0.00004	565399.72	4207696.41	0.00004
565428.90	4207688.24	0.00003	565151.10	4207652.05	0.00015
565105.58	4207646.22	0.00016	564896.65	4207642.72	0.00013
564876.80	4207628.71	0.00015	564858.13	4207614.70	0.00018
564838.29	4207611.20	0.00018	564807.94	4207600.70	0.00022
564777.59	4207600.70	0.00024	564749.58	4207603.03	0.00024
564726.23	4207605.37	0.00024	564701.72	4207615.87	0.00022
564681.88	4207624.04	0.00021	564649.20	4207633.38	0.00020
564630.52	4207640.38	0.00019	564609.51	4207650.89	0.00017
564589.67	4207655.56	0.00017	564563.99	4207668.40	0.00015
564538.31	4207678.90	0.00013	564517.30	4207687.07	0.00012

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE ANNUAL AVERAGE CONCENTRATION VALUES
AVERAGED OVER 5 YEARS FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S):
PAREA1 , L0000001 , L0000002 , L0000003 , L0000004 ,
L0000005 , L0000006 , L0000007 ,
L0000008 , L0000009 , L0000010 , L0000011 , L0000012 ,
L0000013 , L0000014 , L0000015 ,
L0000016 , L0000017 , L0000018 , L0000019 , L0000020 ,
L0000021 , L0000022 , L0000023 ,
L0000024 , L0000025 , L0000026 , L0000027 , . . . ,

*** DISCRETE CARTESIAN
RECEPTOR POINTS ***

** CONC OF DPM IN
MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565075.43	4207459.29	1.56872	565374.04	4207297.22	1.11148
565350.70	4207277.38	1.04942	565325.02	4207271.54	1.06887
565305.17	4207270.37	1.08012	565273.66	4207262.20	0.99607
565254.98	4207254.03	0.90342	565231.64	4207249.36	0.80611
565212.96	4207236.52	0.68952	565183.78	4207233.02	0.57549
565501.27	4207312.39	0.43397	565516.44	4207325.23	0.43198
565543.29	4207324.07	0.35226	565372.87	4207269.21	0.91688
565474.42	4207265.70	0.41709	565222.30	4207670.73	1.15305
565184.95	4207657.89	0.82278	565236.31	4207708.08	1.04620
565370.54	4207706.91	2.01097	565399.72	4207696.41	2.20317
565428.90	4207688.24	2.28556	565151.10	4207652.05	0.68604

565105.58 4207646.22 0.67067
564896.65 4207642.72 0.35952
564876.80 4207628.71 0.35889
564858.13 4207614.70 0.35752
564838.29 4207611.20 0.34036
564807.94 4207600.70 0.32248
564777.59 4207600.70 0.29772
564749.58 4207603.03 0.27472
564726.23 4207605.37 0.25895
564701.72 4207615.87 0.23806
564681.88 4207624.04 0.22324
564649.20 4207633.38 0.20430
564630.52 4207640.38 0.19305
564609.51 4207650.89 0.18029
564589.67 4207655.56 0.17229
564563.99 4207668.40 0.15962
564538.31 4207678.90 0.14911
564517.30 4207687.07 0.14127

*** AERMOD - VERSION 16216r *** ***
C:\Users\xli\Desktop\construction HRA storage facility\construction
*** 03/20/18
*** AERMET - VERSION 14134 *** ***
*** 11:54:46

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE SUMMARY OF MAXIMUM ANNUAL
RESULTS AVERAGED OVER 5 YEARS ***

** CONC OF DPM IN
MICROGRAMS/M**3 **

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

AREA 1ST HIGHEST VALUE IS 2.28553 AT (565428.90,
4207688.24, 27.58, 92.00, 0.00) DC
2ND HIGHEST VALUE IS 2.20314 AT (565399.72,
4207696.41, 27.48, 27.48, 0.00) DC
3RD HIGHEST VALUE IS 2.01093 AT (565370.54,
4207706.91, 27.95, 27.95, 0.00) DC
4TH HIGHEST VALUE IS 1.56868 AT (565075.43,
4207459.29, 23.59, 23.59, 0.00) DC
5TH HIGHEST VALUE IS 1.15291 AT (565222.30,
4207670.73, 32.19, 60.00, 0.00) DC

```
          6TH HIGHEST VALUE IS       1.11147 AT (  565374.04,
4207297.22,    29.65,   146.00,    0.00)  DC
          7TH HIGHEST VALUE IS       1.08011 AT (  565305.17,
4207270.37,    28.38,   127.00,    0.00)  DC
          8TH HIGHEST VALUE IS       1.06886 AT (  565325.02,
4207271.54,    28.88,   146.00,    0.00)  DC
          9TH HIGHEST VALUE IS       1.04941 AT (  565350.70,
4207277.38,    29.32,   146.00,    0.00)  DC
         10TH HIGHEST VALUE IS       1.04611 AT (  565236.31,
4207708.08,    31.28,    60.00,    0.00)  DC

LINE      1ST HIGHEST VALUE IS       0.00024 AT (  564726.23,
4207605.37,    17.40,    60.00,    0.00)  DC
          2ND HIGHEST VALUE IS       0.00024 AT (  564749.58,
4207603.03,    17.66,    60.00,    0.00)  DC
          3RD HIGHEST VALUE IS       0.00024 AT (  564777.59,
4207600.70,    18.57,    60.00,    0.00)  DC
          4TH HIGHEST VALUE IS       0.00022 AT (  564701.72,
4207615.87,    17.39,    60.00,    0.00)  DC
          5TH HIGHEST VALUE IS       0.00022 AT (  564807.94,
4207600.70,    19.47,    60.00,    0.00)  DC
          6TH HIGHEST VALUE IS       0.00021 AT (  564681.88,
4207624.04,    17.39,    60.00,    0.00)  DC
          7TH HIGHEST VALUE IS       0.00020 AT (  564649.20,
4207633.38,    17.33,    60.00,    0.00)  DC
          8TH HIGHEST VALUE IS       0.00019 AT (  564630.52,
4207640.38,    17.08,    60.00,    0.00)  DC
          9TH HIGHEST VALUE IS       0.00018 AT (  564838.29,
4207611.20,    21.37,    60.00,    0.00)  DC
         10TH HIGHEST VALUE IS       0.00018 AT (  564858.13,
4207614.70,    22.56,    60.00,    0.00)  DC

ALL       1ST HIGHEST VALUE IS       2.28556 AT (  565428.90,
4207688.24,    27.58,    92.00,    0.00)  DC
          2ND HIGHEST VALUE IS       2.20317 AT (  565399.72,
4207696.41,    27.48,    27.48,    0.00)  DC
          3RD HIGHEST VALUE IS       2.01097 AT (  565370.54,
4207706.91,    27.95,    27.95,    0.00)  DC
          4TH HIGHEST VALUE IS       1.56872 AT (  565075.43,
4207459.29,    23.59,    23.59,    0.00)  DC
          5TH HIGHEST VALUE IS       1.15305 AT (  565222.30,
4207670.73,    32.19,    60.00,    0.00)  DC
          6TH HIGHEST VALUE IS       1.11148 AT (  565374.04,
4207297.22,    29.65,   146.00,    0.00)  DC
          7TH HIGHEST VALUE IS       1.08012 AT (  565305.17,
4207270.37,    28.38,   127.00,    0.00)  DC
          8TH HIGHEST VALUE IS       1.06887 AT (  565325.02,
4207271.54,    28.88,   146.00,    0.00)  DC
          9TH HIGHEST VALUE IS       1.04942 AT (  565350.70,
4207277.38,    29.32,   146.00,    0.00)  DC
         10TH HIGHEST VALUE IS       1.04620 AT (  565236.31,
4207708.08,    31.28,    60.00,    0.00)  DC
```

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

 *** AERMOD - VERSION 16216r ***   ***
C:\Users\xli\Desktop\construction HRA storage facility\construction
***        03/20/18
 *** AERMET - VERSION  14134 ***   ***
***        11:54:46

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

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

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

 A Total of            0 Fatal Error Message(s)
 A Total of            2 Warning Message(s)
 A Total of        10597 Informational Message(s)

 A Total of        43872 Hours Were Processed

 A Total of         9342 Calm Hours Identified

 A Total of         1255 Missing Hours Identified (  2.86 Percent)


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


    ********   WARNING MESSAGES   ********
 CO W320      22       URBOPT: Input Parameter May Be Out-of-Range for
Parameter       URB-POP
 MX W481   43873         MAIN: Data Remaining After End of Year.
Number of Hours=           48

    ************************************
    *** AERMOD Finishes Successfully ***
    ************************************
```

```
**
****************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 9.5.0
** Lakes Environmental Software Inc.
** Date: 3/20/2018
** File: C:\Users\xli\Desktop\4673.0012 Willow Avenue Commercial
Center\construction HRA\automobile care\automobile care.ADI
**
****************************************
**
**
****************************************
** AERMOD Control Pathway
****************************************
**
**
CO STARTING
   TITLEONE C:\Users\xli\Desktop\construction HRA storage
facility\construction
   MODELOPT DFAULT CONC
   AVERTIME ANNUAL
   URBANOPT 10000
   POLLUTID DPM
   RUNORNOT RUN
   ERRORFIL "automobile care.err"
CO FINISHED
**
****************************************
** AERMOD Source Pathway
****************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION PAREA2       AREAPOLY   565001.620  4207366.623
24.040
** DESCRSRC service commercial
** ---------------------------------------------------------------------
--
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE1
** DESCRSRC off-site truck
** PREFIX
** Length of Side = 9.00
** Configuration = Adjacent
** Emission Rate = 0.00001
** Elevated
** Vertical Dimension = 6.22
** SZINIT = 1.45
```

```
** Nodes = 7
** 564434.961, 4207643.859, 20.09, 3.11, 4.19
** 564546.758, 4207609.164, 19.07, 3.11, 4.19
** 564801.191, 4207549.410, 18.14, 3.11, 4.19
** 565225.246, 4207589.888, 30.86, 3.11, 4.19
** 565244.521, 4207597.598, 30.71, 3.11, 4.19
** 565211.753, 4207526.280, 29.85, 3.11, 4.19
** 565165.493, 4207474.237, 26.89, 3.11, 4.19
** ---------------------------------------------------------------------
--
   LOCATION L0000001     VOLUME   564439.259 4207642.525 19.98
   LOCATION L0000002     VOLUME   564447.855 4207639.858 20.04
   LOCATION L0000003     VOLUME   564456.450 4207637.190 20.01
   LOCATION L0000004     VOLUME   564465.046 4207634.522 19.97
   LOCATION L0000005     VOLUME   564473.641 4207631.855 19.92
   LOCATION L0000006     VOLUME   564482.237 4207629.187 19.87
   LOCATION L0000007     VOLUME   564490.833 4207626.520 19.81
   LOCATION L0000008     VOLUME   564499.428 4207623.852 19.74
   LOCATION L0000009     VOLUME   564508.024 4207621.184 19.67
   LOCATION L0000010     VOLUME   564516.619 4207618.517 19.58
   LOCATION L0000011     VOLUME   564525.215 4207615.849 19.55
   LOCATION L0000012     VOLUME   564533.811 4207613.182 19.54
   LOCATION L0000013     VOLUME   564542.406 4207610.514 19.51
   LOCATION L0000014     VOLUME   564551.084 4207608.148 19.44
   LOCATION L0000015     VOLUME   564559.845 4207606.090 19.35
   LOCATION L0000016     VOLUME   564568.607 4207604.032 19.24
   LOCATION L0000017     VOLUME   564577.369 4207601.975 19.13
   LOCATION L0000018     VOLUME   564586.130 4207599.917 19.00
   LOCATION L0000019     VOLUME   564594.892 4207597.859 18.91
   LOCATION L0000020     VOLUME   564603.653 4207595.802 18.94
   LOCATION L0000021     VOLUME   564612.415 4207593.744 18.96
   LOCATION L0000022     VOLUME   564621.177 4207591.686 18.98
   LOCATION L0000023     VOLUME   564629.938 4207589.629 19.00
   LOCATION L0000024     VOLUME   564638.700 4207587.571 19.01
   LOCATION L0000025     VOLUME   564647.462 4207585.513 19.01
   LOCATION L0000026     VOLUME   564656.223 4207583.456 19.01
   LOCATION L0000027     VOLUME   564664.985 4207581.398 19.00
   LOCATION L0000028     VOLUME   564673.746 4207579.341 18.96
   LOCATION L0000029     VOLUME   564682.508 4207577.283 18.90
   LOCATION L0000030     VOLUME   564691.270 4207575.225 18.85
   LOCATION L0000031     VOLUME   564700.031 4207573.168 18.80
   LOCATION L0000032     VOLUME   564708.793 4207571.110 18.75
   LOCATION L0000033     VOLUME   564717.555 4207569.052 18.70
   LOCATION L0000034     VOLUME   564726.316 4207566.995 18.65
   LOCATION L0000035     VOLUME   564735.078 4207564.937 18.60
   LOCATION L0000036     VOLUME   564743.839 4207562.879 18.60
   LOCATION L0000037     VOLUME   564752.601 4207560.822 18.62
   LOCATION L0000038     VOLUME   564761.363 4207558.764 18.60
   LOCATION L0000039     VOLUME   564770.124 4207556.706 18.55
   LOCATION L0000040     VOLUME   564778.886 4207554.649 18.47
   LOCATION L0000041     VOLUME   564787.648 4207552.591 18.35
   LOCATION L0000042     VOLUME   564796.409 4207550.533 18.26
```

LOCATION	L0000043	VOLUME	564805.261	4207549.799	18.17
LOCATION	L0000044	VOLUME	564814.220	4207550.654	18.14
LOCATION	L0000045	VOLUME	564823.179	4207551.509	18.59
LOCATION	L0000046	VOLUME	564832.138	4207552.364	19.10
LOCATION	L0000047	VOLUME	564841.098	4207553.220	19.62
LOCATION	L0000048	VOLUME	564850.057	4207554.075	20.13
LOCATION	L0000049	VOLUME	564859.016	4207554.930	20.65
LOCATION	L0000050	VOLUME	564867.975	4207555.785	21.16
LOCATION	L0000051	VOLUME	564876.935	4207556.640	21.68
LOCATION	L0000052	VOLUME	564885.894	4207557.496	22.18
LOCATION	L0000053	VOLUME	564894.853	4207558.351	22.45
LOCATION	L0000054	VOLUME	564903.813	4207559.206	22.73
LOCATION	L0000055	VOLUME	564912.772	4207560.061	23.00
LOCATION	L0000056	VOLUME	564921.731	4207560.917	23.27
LOCATION	L0000057	VOLUME	564930.690	4207561.772	23.54
LOCATION	L0000058	VOLUME	564939.650	4207562.627	23.81
LOCATION	L0000059	VOLUME	564948.609	4207563.482	24.08
LOCATION	L0000060	VOLUME	564957.568	4207564.337	24.35
LOCATION	L0000061	VOLUME	564966.528	4207565.193	24.63
LOCATION	L0000062	VOLUME	564975.487	4207566.048	24.92
LOCATION	L0000063	VOLUME	564984.446	4207566.903	25.21
LOCATION	L0000064	VOLUME	564993.405	4207567.758	25.51
LOCATION	L0000065	VOLUME	565002.365	4207568.613	25.80
LOCATION	L0000066	VOLUME	565011.324	4207569.469	26.10
LOCATION	L0000067	VOLUME	565020.283	4207570.324	26.40
LOCATION	L0000068	VOLUME	565029.242	4207571.179	26.70
LOCATION	L0000069	VOLUME	565038.202	4207572.034	26.95
LOCATION	L0000070	VOLUME	565047.161	4207572.889	27.18
LOCATION	L0000071	VOLUME	565056.120	4207573.745	27.40
LOCATION	L0000072	VOLUME	565065.080	4207574.600	27.61
LOCATION	L0000073	VOLUME	565074.039	4207575.455	27.83
LOCATION	L0000074	VOLUME	565082.998	4207576.310	28.04
LOCATION	L0000075	VOLUME	565091.957	4207577.165	28.24
LOCATION	L0000076	VOLUME	565100.917	4207578.021	28.44
LOCATION	L0000077	VOLUME	565109.876	4207578.876	28.72
LOCATION	L0000078	VOLUME	565118.835	4207579.731	29.05
LOCATION	L0000079	VOLUME	565127.794	4207580.586	29.38
LOCATION	L0000080	VOLUME	565136.754	4207581.441	29.72
LOCATION	L0000081	VOLUME	565145.713	4207582.297	30.07
LOCATION	L0000082	VOLUME	565154.672	4207583.152	30.41
LOCATION	L0000083	VOLUME	565163.632	4207584.007	30.77
LOCATION	L0000084	VOLUME	565172.591	4207584.862	31.12
LOCATION	L0000085	VOLUME	565181.550	4207585.717	31.30
LOCATION	L0000086	VOLUME	565190.509	4207586.573	31.21
LOCATION	L0000087	VOLUME	565199.469	4207587.428	31.10
LOCATION	L0000088	VOLUME	565208.428	4207588.283	31.00
LOCATION	L0000089	VOLUME	565217.387	4207589.138	30.88
LOCATION	L0000090	VOLUME	565226.272	4207590.299	30.77
LOCATION	L0000091	VOLUME	565234.629	4207593.641	30.70
LOCATION	L0000092	VOLUME	565242.985	4207596.984	30.60
LOCATION	L0000093	VOLUME	565241.455	4207590.924	30.54
LOCATION	L0000094	VOLUME	565237.697	4207582.746	30.47

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   LOCATION L0000095     VOLUME   565233.940 4207574.568 30.36
   LOCATION L0000096     VOLUME   565230.182 4207566.390 30.23
   LOCATION L0000097     VOLUME   565226.425 4207558.211 30.07
   LOCATION L0000098     VOLUME   565222.667 4207550.033 29.91
   LOCATION L0000099     VOLUME   565218.909 4207541.855 29.74
   LOCATION L0000100     VOLUME   565215.152 4207533.677 29.55
   LOCATION L0000101     VOLUME   565211.182 4207525.638 29.34
   LOCATION L0000102     VOLUME   565205.203 4207518.911 29.12
   LOCATION L0000103     VOLUME   565199.224 4207512.184 28.88
   LOCATION L0000104     VOLUME   565193.244 4207505.458 28.62
   LOCATION L0000105     VOLUME   565187.265 4207498.731 28.33
   LOCATION L0000106     VOLUME   565181.286 4207492.004 28.02
   LOCATION L0000107     VOLUME   565175.307 4207485.278 27.63
   LOCATION L0000108     VOLUME   565169.327 4207478.551 27.18
** End of LINE VOLUME Source ID = SLINE1
** Source Parameters **
   SRCPARAM PAREA2         0.00001     5.000         6
   AREAVERT PAREA2       565001.620 4207366.623 565050.661 4207326.590
   AREAVERT PAREA2       565286.859 4207394.647 565157.751 4207451.695
   AREAVERT PAREA2       565104.706 4207414.663 565060.669 4207387.641
** LINE VOLUME Source ID = SLINE1
   SRCPARAM L0000001     0.00000009259      3.11      4.19      1.45
   SRCPARAM L0000002     0.00000009259      3.11      4.19      1.45
   SRCPARAM L0000003     0.00000009259      3.11      4.19      1.45
   SRCPARAM L0000004     0.00000009259      3.11      4.19      1.45
   SRCPARAM L0000005     0.00000009259      3.11      4.19      1.45
   SRCPARAM L0000006     0.00000009259      3.11      4.19      1.45
   SRCPARAM L0000007     0.00000009259      3.11      4.19      1.45
   SRCPARAM L0000008     0.00000009259      3.11      4.19      1.45
   SRCPARAM L0000009     0.00000009259      3.11      4.19      1.45
   SRCPARAM L0000010     0.00000009259      3.11      4.19      1.45
   SRCPARAM L0000011     0.00000009259      3.11      4.19      1.45
   SRCPARAM L0000012     0.00000009259      3.11      4.19      1.45
   SRCPARAM L0000013     0.00000009259      3.11      4.19      1.45
   SRCPARAM L0000014     0.00000009259      3.11      4.19      1.45
   SRCPARAM L0000015     0.00000009259      3.11      4.19      1.45
   SRCPARAM L0000016     0.00000009259      3.11      4.19      1.45
   SRCPARAM L0000017     0.00000009259      3.11      4.19      1.45
   SRCPARAM L0000018     0.00000009259      3.11      4.19      1.45
   SRCPARAM L0000019     0.00000009259      3.11      4.19      1.45
   SRCPARAM L0000020     0.00000009259      3.11      4.19      1.45
   SRCPARAM L0000021     0.00000009259      3.11      4.19      1.45
   SRCPARAM L0000022     0.00000009259      3.11      4.19      1.45
   SRCPARAM L0000023     0.00000009259      3.11      4.19      1.45
   SRCPARAM L0000024     0.00000009259      3.11      4.19      1.45
   SRCPARAM L0000025     0.00000009259      3.11      4.19      1.45
   SRCPARAM L0000026     0.00000009259      3.11      4.19      1.45
   SRCPARAM L0000027     0.00000009259      3.11      4.19      1.45
   SRCPARAM L0000028     0.00000009259      3.11      4.19      1.45
   SRCPARAM L0000029     0.00000009259      3.11      4.19      1.45
   SRCPARAM L0000030     0.00000009259      3.11      4.19      1.45
   SRCPARAM L0000031     0.00000009259      3.11      4.19      1.45
```

SRCPARAM	L0000032	0.00000009259	3.11	4.19	1.45
SRCPARAM	L0000033	0.00000009259	3.11	4.19	1.45
SRCPARAM	L0000034	0.00000009259	3.11	4.19	1.45
SRCPARAM	L0000035	0.00000009259	3.11	4.19	1.45
SRCPARAM	L0000036	0.00000009259	3.11	4.19	1.45
SRCPARAM	L0000037	0.00000009259	3.11	4.19	1.45
SRCPARAM	L0000038	0.00000009259	3.11	4.19	1.45
SRCPARAM	L0000039	0.00000009259	3.11	4.19	1.45
SRCPARAM	L0000040	0.00000009259	3.11	4.19	1.45
SRCPARAM	L0000041	0.00000009259	3.11	4.19	1.45
SRCPARAM	L0000042	0.00000009259	3.11	4.19	1.45
SRCPARAM	L0000043	0.00000009259	3.11	4.19	1.45
SRCPARAM	L0000044	0.00000009259	3.11	4.19	1.45
SRCPARAM	L0000045	0.00000009259	3.11	4.19	1.45
SRCPARAM	L0000046	0.00000009259	3.11	4.19	1.45
SRCPARAM	L0000047	0.00000009259	3.11	4.19	1.45
SRCPARAM	L0000048	0.00000009259	3.11	4.19	1.45
SRCPARAM	L0000049	0.00000009259	3.11	4.19	1.45
SRCPARAM	L0000050	0.00000009259	3.11	4.19	1.45
SRCPARAM	L0000051	0.00000009259	3.11	4.19	1.45
SRCPARAM	L0000052	0.00000009259	3.11	4.19	1.45
SRCPARAM	L0000053	0.00000009259	3.11	4.19	1.45
SRCPARAM	L0000054	0.00000009259	3.11	4.19	1.45
SRCPARAM	L0000055	0.00000009259	3.11	4.19	1.45
SRCPARAM	L0000056	0.00000009259	3.11	4.19	1.45
SRCPARAM	L0000057	0.00000009259	3.11	4.19	1.45
SRCPARAM	L0000058	0.00000009259	3.11	4.19	1.45
SRCPARAM	L0000059	0.00000009259	3.11	4.19	1.45
SRCPARAM	L0000060	0.00000009259	3.11	4.19	1.45
SRCPARAM	L0000061	0.00000009259	3.11	4.19	1.45
SRCPARAM	L0000062	0.00000009259	3.11	4.19	1.45
SRCPARAM	L0000063	0.00000009259	3.11	4.19	1.45
SRCPARAM	L0000064	0.00000009259	3.11	4.19	1.45
SRCPARAM	L0000065	0.00000009259	3.11	4.19	1.45
SRCPARAM	L0000066	0.00000009259	3.11	4.19	1.45
SRCPARAM	L0000067	0.00000009259	3.11	4.19	1.45
SRCPARAM	L0000068	0.00000009259	3.11	4.19	1.45
SRCPARAM	L0000069	0.00000009259	3.11	4.19	1.45
SRCPARAM	L0000070	0.00000009259	3.11	4.19	1.45
SRCPARAM	L0000071	0.00000009259	3.11	4.19	1.45
SRCPARAM	L0000072	0.00000009259	3.11	4.19	1.45
SRCPARAM	L0000073	0.00000009259	3.11	4.19	1.45
SRCPARAM	L0000074	0.00000009259	3.11	4.19	1.45
SRCPARAM	L0000075	0.00000009259	3.11	4.19	1.45
SRCPARAM	L0000076	0.00000009259	3.11	4.19	1.45
SRCPARAM	L0000077	0.00000009259	3.11	4.19	1.45
SRCPARAM	L0000078	0.00000009259	3.11	4.19	1.45
SRCPARAM	L0000079	0.00000009259	3.11	4.19	1.45
SRCPARAM	L0000080	0.00000009259	3.11	4.19	1.45
SRCPARAM	L0000081	0.00000009259	3.11	4.19	1.45
SRCPARAM	L0000082	0.00000009259	3.11	4.19	1.45
SRCPARAM	L0000083	0.00000009259	3.11	4.19	1.45

```
   SRCPARAM L0000084     0.00000009259      3.11      4.19      1.45
   SRCPARAM L0000085     0.00000009259      3.11      4.19      1.45
   SRCPARAM L0000086     0.00000009259      3.11      4.19      1.45
   SRCPARAM L0000087     0.00000009259      3.11      4.19      1.45
   SRCPARAM L0000088     0.00000009259      3.11      4.19      1.45
   SRCPARAM L0000089     0.00000009259      3.11      4.19      1.45
   SRCPARAM L0000090     0.00000009259      3.11      4.19      1.45
   SRCPARAM L0000091     0.00000009259      3.11      4.19      1.45
   SRCPARAM L0000092     0.00000009259      3.11      4.19      1.45
   SRCPARAM L0000093     0.00000009259      3.11      4.19      1.45
   SRCPARAM L0000094     0.00000009259      3.11      4.19      1.45
   SRCPARAM L0000095     0.00000009259      3.11      4.19      1.45
   SRCPARAM L0000096     0.00000009259      3.11      4.19      1.45
   SRCPARAM L0000097     0.00000009259      3.11      4.19      1.45
   SRCPARAM L0000098     0.00000009259      3.11      4.19      1.45
   SRCPARAM L0000099     0.00000009259      3.11      4.19      1.45
   SRCPARAM L0000100     0.00000009259      3.11      4.19      1.45
   SRCPARAM L0000101     0.00000009259      3.11      4.19      1.45
   SRCPARAM L0000102     0.00000009259      3.11      4.19      1.45
   SRCPARAM L0000103     0.00000009259      3.11      4.19      1.45
   SRCPARAM L0000104     0.00000009259      3.11      4.19      1.45
   SRCPARAM L0000105     0.00000009259      3.11      4.19      1.45
   SRCPARAM L0000106     0.00000009259      3.11      4.19      1.45
   SRCPARAM L0000107     0.00000009259      3.11      4.19      1.45
   SRCPARAM L0000108     0.00000009259      3.11      4.19      1.45
** ---------------------------------------------------------------------
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   URBANSRC L0000001
   URBANSRC L0000002
   URBANSRC L0000003
   URBANSRC L0000004
   URBANSRC L0000005
   URBANSRC L0000006
   URBANSRC L0000007
   URBANSRC L0000008
   URBANSRC L0000009
   URBANSRC L0000010
   URBANSRC L0000011
   URBANSRC L0000012
   URBANSRC L0000013
   URBANSRC L0000014
   URBANSRC L0000015
   URBANSRC L0000016
   URBANSRC L0000017
   URBANSRC L0000018
   URBANSRC L0000019
   URBANSRC L0000020
   URBANSRC L0000021
   URBANSRC L0000022
   URBANSRC L0000023
   URBANSRC L0000024
   URBANSRC L0000025
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URBANSRC L0000026
URBANSRC L0000027
URBANSRC L0000028
URBANSRC L0000029
URBANSRC L0000030
URBANSRC L0000031
URBANSRC L0000032
URBANSRC L0000033
URBANSRC L0000034
URBANSRC L0000035
URBANSRC L0000036
URBANSRC L0000037
URBANSRC L0000038
URBANSRC L0000039
URBANSRC L0000040
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URBANSRC L0000042
URBANSRC L0000043
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URBANSRC L0000067
URBANSRC L0000068
URBANSRC L0000069
URBANSRC L0000070
URBANSRC L0000071
URBANSRC L0000072
URBANSRC L0000073
URBANSRC L0000074
URBANSRC L0000075
URBANSRC L0000076
URBANSRC L0000077
```

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   URBANSRC L0000078
   URBANSRC L0000079
   URBANSRC L0000080
   URBANSRC L0000081
   URBANSRC L0000082
   URBANSRC L0000083
   URBANSRC L0000084
   URBANSRC L0000085
   URBANSRC L0000086
   URBANSRC L0000087
   URBANSRC L0000088
   URBANSRC L0000089
   URBANSRC L0000090
   URBANSRC L0000091
   URBANSRC L0000092
   URBANSRC L0000093
   URBANSRC L0000094
   URBANSRC L0000095
   URBANSRC L0000096
   URBANSRC L0000097
   URBANSRC L0000098
   URBANSRC L0000099
   URBANSRC L0000100
   URBANSRC L0000101
   URBANSRC L0000102
   URBANSRC L0000103
   URBANSRC L0000104
   URBANSRC L0000105
   URBANSRC L0000106
   URBANSRC L0000107
   URBANSRC L0000108
   URBANSRC PAREA2

** Variable Emissions Type: "By Hour / Day (HRDOW)"
** Variable Emission Scenario: "Scenario 2"
** WeekDays:
   EMISFACT L0000001     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000001     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0000001     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0000001     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
   EMISFACT L0000002     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000002     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0000002     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0000002     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
   EMISFACT L0000003     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000003     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0000003     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0000003     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
   EMISFACT L0000004     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000004     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0000004     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0000004     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
```

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EMISFACT L0000005     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000005     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000005     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000005     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000006     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000006     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000006     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000006     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000007     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000007     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000007     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000007     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000008     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000008     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000008     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000008     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000009     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000009     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000009     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000009     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000010     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000010     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000010     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000010     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000011     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000011     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000011     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000011     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000012     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000012     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000012     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000012     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000013     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000013     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000013     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000013     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000014     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000014     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000014     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000014     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000015     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000015     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000015     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000015     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000016     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000016     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000016     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000016     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000017     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000017     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000017     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000017     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
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EMISFACT L0000018     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000018     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000018     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000018     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000019     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000019     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000019     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000019     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000020     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000020     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000020     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000020     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000021     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000021     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000021     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000021     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000022     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000022     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000022     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000022     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000023     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000023     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000023     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000023     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000024     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000024     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000024     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000024     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000025     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000025     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000025     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000025     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000026     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000026     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000026     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000026     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000027     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000027     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000027     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000027     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000028     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000028     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000028     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000028     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000029     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000029     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000029     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000029     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000030     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000030     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000030     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000030     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
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EMISFACT L0000031     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000031     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000031     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000031     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000032     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000032     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000032     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000032     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000033     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000033     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000033     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000033     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000034     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000034     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000034     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000034     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000035     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000035     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000035     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000035     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000036     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000036     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000036     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000036     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000037     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000037     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000037     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000037     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000038     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000038     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000038     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000038     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000039     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000039     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
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EMISFACT L0000106     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
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EMISFACT L0000107     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000107     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000107     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000107     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000108     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000108     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000108     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000108     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
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   EMISFACT L0000001     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000063     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000063     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000064     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000064     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
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EMISFACT L0000065     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000065     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
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EMISFACT L0000066     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
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EMISFACT L0000069     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
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EMISFACT L0000091     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
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EMISFACT L0000104     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
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EMISFACT L0000083     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000083     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000084     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000084     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000084     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000084     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000085     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000085     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000085     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000085     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000086     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000086     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000086     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000086     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000087     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000087     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
```

```
EMISFACT L0000087     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000087     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000088     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000088     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000088     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000088     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000089     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000089     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000089     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000089     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000090     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000090     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000090     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000090     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000091     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000091     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000091     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000091     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000092     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000092     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000092     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000092     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000093     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000093     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000093     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000093     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000094     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000094     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000094     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000094     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000095     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000095     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000095     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000095     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000096     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000096     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000096     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000096     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000097     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000097     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000097     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000097     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000098     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000098     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000098     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000098     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000099     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000099     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000099     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000099     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000100     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000100     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
```

```
   EMISFACT L0000100     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT L0000100     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000101     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000101     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0000101     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT L0000101     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000102     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000102     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0000102     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT L0000102     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000103     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000103     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0000103     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT L0000103     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000104     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000104     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0000104     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT L0000104     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000105     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000105     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0000105     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT L0000105     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000106     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000106     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0000106     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT L0000106     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000107     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000107     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0000107     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT L0000107     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000108     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000108     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0000108     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT L0000108     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT PAREA2       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA2       HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PAREA2       HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PAREA2       HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
** Saturday:
   EMISFACT PAREA2       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA2       HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PAREA2       HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT PAREA2       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT PAREA2       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA2       HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PAREA2       HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT PAREA2       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   SRCGROUP Line     L0000001 L0000002 L0000003 L0000004 L0000005
L0000006
```

```
   SRCGROUP Line     L0000007 L0000008 L0000009 L0000010 L0000011
L0000012
   SRCGROUP Line     L0000013 L0000014 L0000015 L0000016 L0000017
L0000018
   SRCGROUP Line     L0000019 L0000020 L0000021 L0000022 L0000023
L0000024
   SRCGROUP Line     L0000025 L0000026 L0000027 L0000028 L0000029
L0000030
   SRCGROUP Line     L0000031 L0000032 L0000033 L0000034 L0000035
L0000036
   SRCGROUP Line     L0000037 L0000038 L0000039 L0000040 L0000041
L0000042
   SRCGROUP Line     L0000043 L0000044 L0000045 L0000046 L0000047
L0000048
   SRCGROUP Line     L0000049 L0000050 L0000051 L0000052 L0000053
L0000054
   SRCGROUP Line     L0000055 L0000056 L0000057 L0000058 L0000059
L0000060
   SRCGROUP Line     L0000061 L0000062 L0000063 L0000064 L0000065
L0000066
   SRCGROUP Line     L0000067 L0000068 L0000069 L0000070 L0000071
L0000072
   SRCGROUP Line     L0000073 L0000074 L0000075 L0000076 L0000077
L0000078
   SRCGROUP Line     L0000079 L0000080 L0000081 L0000082 L0000083
L0000084
   SRCGROUP Line     L0000085 L0000086 L0000087 L0000088 L0000089
L0000090
   SRCGROUP Line     L0000091 L0000092 L0000093 L0000094 L0000095
L0000096
   SRCGROUP Line     L0000097 L0000098 L0000099 L0000100 L0000101
L0000102
   SRCGROUP Line     L0000103 L0000104 L0000105 L0000106 L0000107
L0000108
   SRCGROUP Area     PAREA2
   SRCGROUP ALL
SO FINISHED
**
****************************************
** AERMOD Receptor Pathway
****************************************
**
**
RE STARTING
   INCLUDED "automobile care.rou"
RE FINISHED
**
****************************************
** AERMOD Meteorology Pathway
****************************************
**
**
```

```
ME STARTING
   SURFFILE ..\..\724955\724955.SFC
   PROFFILE ..\..\724955\724955.PFL
   SURFDATA 93227 2009
   UAIRDATA 23230 2009 OAKLAND/WSO_AP
   PROFBASE 4.3 METERS
ME FINISHED
**
****************************************
** AERMOD Output Pathway
****************************************
**
**
OU STARTING
** Auto-Generated Plotfiles
   PLOTFILE ANNUAL ALL "AUTOMOBILE CARE.AD\AN00GALL.PLT" 31
   PLOTFILE ANNUAL Line "AUTOMOBILE CARE.AD\AN00G001.PLT" 32
   PLOTFILE ANNUAL Area "AUTOMOBILE CARE.AD\AN00G002.PLT" 33
   SUMMFILE "automobile care.sum"
OU FINISHED


  *** Message Summary For AERMOD Model Setup ***

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

 A Total of            0 Fatal Error Message(s)
 A Total of            1 Warning Message(s)
 A Total of            0 Informational Message(s)


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


    ********   WARNING MESSAGES   ********
 CO W320      22       URBOPT: Input Parameter May Be Out-of-Range for
Parameter       URB-POP

 ***********************************
 *** SETUP Finishes Successfully ***
 ***********************************


 *** AERMOD - VERSION 16216r ***   ***
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 *** AERMET - VERSION  14134 ***   ***
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PAGE   1
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN
```

```
                                                ***     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 URBAN Dispersion Algorithm for the SBL for   109
Source(s),
   for Total of    1 Urban Area(s):
   Urban Population =     10000.0 ;  Urban Roughness Length =  1.000 m

 **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.
        6. Urban Roughness Length of 1.0 Meter Assumed.

 **Other Options Specified:
        CCVR_Sub - Meteorological data includes CCVR substitutions
        TEMP_Sub - Meteorological data includes TEMP substitutions

 **Model Assumes No FLAGPOLE Receptor Heights.

 **The User Specified a Pollutant Type of:  DPM

 **Model Calculates ANNUAL Averages Only

 **This Run Includes:    109 Source(s);       3 Source Group(s); and
40 Receptor(s)

                with:      0 POINT(s), including
                           0 POINTCAP(s) and      0 POINTHOR(s)
                 and:    108 VOLUME source(s)
                 and:      1 AREA type source(s)
                 and:      0 LINE source(s)
                 and:      0 OPENPIT source(s)
                 and:      0 BUOYANT LINE source(s) with      0 line(s)


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

 **The AERMET Input Meteorological Data Version Date:  14134
```

```
 **Output Options Selected:
          Model Outputs Tables of ANNUAL Averages by Receptor
          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) =
4.30 ;  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 =      3.6 MB of RAM.

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

 *** AERMOD - VERSION 16216r ***   ***
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 *** AERMET - VERSION  14134 ***   ***
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PAGE   2
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN


                                                     *** VOLUME SOURCE
DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE
INIT.    INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT
SY       SZ     SOURCE  SCALAR VARY
     ID         CATS.                (METERS) (METERS) (METERS) (METERS)
(METERS) (METERS)              BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 L0000001         0   0.92590E-07  564439.3 4207642.5    20.0     3.11
4.19     1.45     YES   HRDOW
```

```
 L0000002          0   0.92590E-07  564447.9 4207639.9    20.0     3.11
4.19     1.45     YES   HRDOW
 L0000003          0   0.92590E-07  564456.5 4207637.2    20.0     3.11
4.19     1.45     YES   HRDOW
 L0000004          0   0.92590E-07  564465.0 4207634.5    20.0     3.11
4.19     1.45     YES   HRDOW
 L0000005          0   0.92590E-07  564473.6 4207631.9    19.9     3.11
4.19     1.45     YES   HRDOW
 L0000006          0   0.92590E-07  564482.2 4207629.2    19.9     3.11
4.19     1.45     YES   HRDOW
 L0000007          0   0.92590E-07  564490.8 4207626.5    19.8     3.11
4.19     1.45     YES   HRDOW
 L0000008          0   0.92590E-07  564499.4 4207623.9    19.7     3.11
4.19     1.45     YES   HRDOW
 L0000009          0   0.92590E-07  564508.0 4207621.2    19.7     3.11
4.19     1.45     YES   HRDOW
 L0000010          0   0.92590E-07  564516.6 4207618.5    19.6     3.11
4.19     1.45     YES   HRDOW
 L0000011          0   0.92590E-07  564525.2 4207615.8    19.6     3.11
4.19     1.45     YES   HRDOW
 L0000012          0   0.92590E-07  564533.8 4207613.2    19.5     3.11
4.19     1.45     YES   HRDOW
 L0000013          0   0.92590E-07  564542.4 4207610.5    19.5     3.11
4.19     1.45     YES   HRDOW
 L0000014          0   0.92590E-07  564551.1 4207608.1    19.4     3.11
4.19     1.45     YES   HRDOW
 L0000015          0   0.92590E-07  564559.8 4207606.1    19.4     3.11
4.19     1.45     YES   HRDOW
 L0000016          0   0.92590E-07  564568.6 4207604.0    19.2     3.11
4.19     1.45     YES   HRDOW
 L0000017          0   0.92590E-07  564577.4 4207602.0    19.1     3.11
4.19     1.45     YES   HRDOW
 L0000018          0   0.92590E-07  564586.1 4207599.9    19.0     3.11
4.19     1.45     YES   HRDOW
 L0000019          0   0.92590E-07  564594.9 4207597.9    18.9     3.11
4.19     1.45     YES   HRDOW
 L0000020          0   0.92590E-07  564603.7 4207595.8    18.9     3.11
4.19     1.45     YES   HRDOW
 L0000021          0   0.92590E-07  564612.4 4207593.7    19.0     3.11
4.19     1.45     YES   HRDOW
 L0000022          0   0.92590E-07  564621.2 4207591.7    19.0     3.11
4.19     1.45     YES   HRDOW
 L0000023          0   0.92590E-07  564629.9 4207589.6    19.0     3.11
4.19     1.45     YES   HRDOW
 L0000024          0   0.92590E-07  564638.7 4207587.6    19.0     3.11
4.19     1.45     YES   HRDOW
 L0000025          0   0.92590E-07  564647.5 4207585.5    19.0     3.11
4.19     1.45     YES   HRDOW
 L0000026          0   0.92590E-07  564656.2 4207583.5    19.0     3.11
4.19     1.45     YES   HRDOW
 L0000027          0   0.92590E-07  564665.0 4207581.4    19.0     3.11
4.19     1.45     YES   HRDOW
```

```
 L0000028         0   0.92590E-07  564673.7 4207579.3    19.0     3.11
4.19     1.45     YES   HRDOW
 L0000029         0   0.92590E-07  564682.5 4207577.3    18.9     3.11
4.19     1.45     YES   HRDOW
 L0000030         0   0.92590E-07  564691.3 4207575.2    18.9     3.11
4.19     1.45     YES   HRDOW
 L0000031         0   0.92590E-07  564700.0 4207573.2    18.8     3.11
4.19     1.45     YES   HRDOW
 L0000032         0   0.92590E-07  564708.8 4207571.1    18.8     3.11
4.19     1.45     YES   HRDOW
 L0000033         0   0.92590E-07  564717.6 4207569.1    18.7     3.11
4.19     1.45     YES   HRDOW
 L0000034         0   0.92590E-07  564726.3 4207567.0    18.7     3.11
4.19     1.45     YES   HRDOW
 L0000035         0   0.92590E-07  564735.1 4207564.9    18.6     3.11
4.19     1.45     YES   HRDOW
 L0000036         0   0.92590E-07  564743.8 4207562.9    18.6     3.11
4.19     1.45     YES   HRDOW
 L0000037         0   0.92590E-07  564752.6 4207560.8    18.6     3.11
4.19     1.45     YES   HRDOW
 L0000038         0   0.92590E-07  564761.4 4207558.8    18.6     3.11
4.19     1.45     YES   HRDOW
 L0000039         0   0.92590E-07  564770.1 4207556.7    18.6     3.11
4.19     1.45     YES   HRDOW
 L0000040         0   0.92590E-07  564778.9 4207554.6    18.5     3.11
4.19     1.45     YES   HRDOW

 *** AERMOD - VERSION 16216r ***   ***
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 *** AERMET - VERSION  14134 ***   ***
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PAGE   3
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN


                                                     *** VOLUME SOURCE
DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE
INIT.    INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT
SY       SZ     SOURCE  SCALAR VARY
     ID         CATS.                (METERS) (METERS) (METERS) (METERS)
(METERS) (METERS)              BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 L0000041         0   0.92590E-07  564787.6 4207552.6    18.4     3.11
4.19     1.45     YES   HRDOW
```

L0000042	0	0.92590E-07	564796.4	4207550.5	18.3	3.11	4.19	1.45	YES	HRDOW
L0000043	0	0.92590E-07	564805.3	4207549.8	18.2	3.11	4.19	1.45	YES	HRDOW
L0000044	0	0.92590E-07	564814.2	4207550.7	18.1	3.11	4.19	1.45	YES	HRDOW
L0000045	0	0.92590E-07	564823.2	4207551.5	18.6	3.11	4.19	1.45	YES	HRDOW
L0000046	0	0.92590E-07	564832.1	4207552.4	19.1	3.11	4.19	1.45	YES	HRDOW
L0000047	0	0.92590E-07	564841.1	4207553.2	19.6	3.11	4.19	1.45	YES	HRDOW
L0000048	0	0.92590E-07	564850.1	4207554.1	20.1	3.11	4.19	1.45	YES	HRDOW
L0000049	0	0.92590E-07	564859.0	4207554.9	20.7	3.11	4.19	1.45	YES	HRDOW
L0000050	0	0.92590E-07	564868.0	4207555.8	21.2	3.11	4.19	1.45	YES	HRDOW
L0000051	0	0.92590E-07	564876.9	4207556.6	21.7	3.11	4.19	1.45	YES	HRDOW
L0000052	0	0.92590E-07	564885.9	4207557.5	22.2	3.11	4.19	1.45	YES	HRDOW
L0000053	0	0.92590E-07	564894.9	4207558.4	22.4	3.11	4.19	1.45	YES	HRDOW
L0000054	0	0.92590E-07	564903.8	4207559.2	22.7	3.11	4.19	1.45	YES	HRDOW
L0000055	0	0.92590E-07	564912.8	4207560.1	23.0	3.11	4.19	1.45	YES	HRDOW
L0000056	0	0.92590E-07	564921.7	4207560.9	23.3	3.11	4.19	1.45	YES	HRDOW
L0000057	0	0.92590E-07	564930.7	4207561.8	23.5	3.11	4.19	1.45	YES	HRDOW
L0000058	0	0.92590E-07	564939.7	4207562.6	23.8	3.11	4.19	1.45	YES	HRDOW
L0000059	0	0.92590E-07	564948.6	4207563.5	24.1	3.11	4.19	1.45	YES	HRDOW
L0000060	0	0.92590E-07	564957.6	4207564.3	24.4	3.11	4.19	1.45	YES	HRDOW
L0000061	0	0.92590E-07	564966.5	4207565.2	24.6	3.11	4.19	1.45	YES	HRDOW
L0000062	0	0.92590E-07	564975.5	4207566.0	24.9	3.11	4.19	1.45	YES	HRDOW
L0000063	0	0.92590E-07	564984.4	4207566.9	25.2	3.11	4.19	1.45	YES	HRDOW
L0000064	0	0.92590E-07	564993.4	4207567.8	25.5	3.11	4.19	1.45	YES	HRDOW
L0000065	0	0.92590E-07	565002.4	4207568.6	25.8	3.11	4.19	1.45	YES	HRDOW
L0000066	0	0.92590E-07	565011.3	4207569.5	26.1	3.11	4.19	1.45	YES	HRDOW
L0000067	0	0.92590E-07	565020.3	4207570.3	26.4	3.11	4.19	1.45	YES	HRDOW

```
 L0000068         0   0.92590E-07  565029.2 4207571.2    26.7     3.11
4.19     1.45     YES   HRDOW
 L0000069         0   0.92590E-07  565038.2 4207572.0    26.9     3.11
4.19     1.45     YES   HRDOW
 L0000070         0   0.92590E-07  565047.2 4207572.9    27.2     3.11
4.19     1.45     YES   HRDOW
 L0000071         0   0.92590E-07  565056.1 4207573.7    27.4     3.11
4.19     1.45     YES   HRDOW
 L0000072         0   0.92590E-07  565065.1 4207574.6    27.6     3.11
4.19     1.45     YES   HRDOW
 L0000073         0   0.92590E-07  565074.0 4207575.5    27.8     3.11
4.19     1.45     YES   HRDOW
 L0000074         0   0.92590E-07  565083.0 4207576.3    28.0     3.11
4.19     1.45     YES   HRDOW
 L0000075         0   0.92590E-07  565092.0 4207577.2    28.2     3.11
4.19     1.45     YES   HRDOW
 L0000076         0   0.92590E-07  565100.9 4207578.0    28.4     3.11
4.19     1.45     YES   HRDOW
 L0000077         0   0.92590E-07  565109.9 4207578.9    28.7     3.11
4.19     1.45     YES   HRDOW
 L0000078         0   0.92590E-07  565118.8 4207579.7    29.1     3.11
4.19     1.45     YES   HRDOW
 L0000079         0   0.92590E-07  565127.8 4207580.6    29.4     3.11
4.19     1.45     YES   HRDOW
 L0000080         0   0.92590E-07  565136.8 4207581.4    29.7     3.11
4.19     1.45     YES   HRDOW
```



```
                                                    *** VOLUME SOURCE
DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE
INIT.    INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT
SY       SZ     SOURCE  SCALAR VARY
     ID         CATS.                (METERS) (METERS) (METERS) (METERS)
(METERS) (METERS)              BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 L0000081         0   0.92590E-07  565145.7 4207582.3    30.1     3.11
4.19     1.45     YES   HRDOW
```

L0000082	0	0.92590E-07	565154.7	4207583.2	30.4	3.11	4.19	1.45	YES	HRDOW
L0000083	0	0.92590E-07	565163.6	4207584.0	30.8	3.11	4.19	1.45	YES	HRDOW
L0000084	0	0.92590E-07	565172.6	4207584.9	31.1	3.11	4.19	1.45	YES	HRDOW
L0000085	0	0.92590E-07	565181.6	4207585.7	31.3	3.11	4.19	1.45	YES	HRDOW
L0000086	0	0.92590E-07	565190.5	4207586.6	31.2	3.11	4.19	1.45	YES	HRDOW
L0000087	0	0.92590E-07	565199.5	4207587.4	31.1	3.11	4.19	1.45	YES	HRDOW
L0000088	0	0.92590E-07	565208.4	4207588.3	31.0	3.11	4.19	1.45	YES	HRDOW
L0000089	0	0.92590E-07	565217.4	4207589.1	30.9	3.11	4.19	1.45	YES	HRDOW
L0000090	0	0.92590E-07	565226.3	4207590.3	30.8	3.11	4.19	1.45	YES	HRDOW
L0000091	0	0.92590E-07	565234.6	4207593.6	30.7	3.11	4.19	1.45	YES	HRDOW
L0000092	0	0.92590E-07	565243.0	4207597.0	30.6	3.11	4.19	1.45	YES	HRDOW
L0000093	0	0.92590E-07	565241.5	4207590.9	30.5	3.11	4.19	1.45	YES	HRDOW
L0000094	0	0.92590E-07	565237.7	4207582.7	30.5	3.11	4.19	1.45	YES	HRDOW
L0000095	0	0.92590E-07	565233.9	4207574.6	30.4	3.11	4.19	1.45	YES	HRDOW
L0000096	0	0.92590E-07	565230.2	4207566.4	30.2	3.11	4.19	1.45	YES	HRDOW
L0000097	0	0.92590E-07	565226.4	4207558.2	30.1	3.11	4.19	1.45	YES	HRDOW
L0000098	0	0.92590E-07	565222.7	4207550.0	29.9	3.11	4.19	1.45	YES	HRDOW
L0000099	0	0.92590E-07	565218.9	4207541.9	29.7	3.11	4.19	1.45	YES	HRDOW
L0000100	0	0.92590E-07	565215.2	4207533.7	29.6	3.11	4.19	1.45	YES	HRDOW
L0000101	0	0.92590E-07	565211.2	4207525.6	29.3	3.11	4.19	1.45	YES	HRDOW
L0000102	0	0.92590E-07	565205.2	4207518.9	29.1	3.11	4.19	1.45	YES	HRDOW
L0000103	0	0.92590E-07	565199.2	4207512.2	28.9	3.11	4.19	1.45	YES	HRDOW
L0000104	0	0.92590E-07	565193.2	4207505.5	28.6	3.11	4.19	1.45	YES	HRDOW
L0000105	0	0.92590E-07	565187.3	4207498.7	28.3	3.11	4.19	1.45	YES	HRDOW
L0000106	0	0.92590E-07	565181.3	4207492.0	28.0	3.11	4.19	1.45	YES	HRDOW
L0000107	0	0.92590E-07	565175.3	4207485.3	27.6	3.11	4.19	1.45	YES	HRDOW

```
 L0000108         0   0.92590E-07  565169.3 4207478.6    27.2     3.11
4.19     1.45     YES   HRDOW

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN


                                                    *** AREAPOLY SOURCE
DATA ***

               NUMBER EMISSION RATE   LOCATION OF AREA  BASE
RELEASE  NUMBER      INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC       X        Y      ELEV.
HEIGHT  OF VERTS.     SZ     SOURCE  SCALAR VARY
     ID         CATS.   /METER**2)   (METERS) (METERS) (METERS)
(METERS)            (METERS)              BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 PAREA2           0   0.10000E-04  565001.6 4207366.6    24.0     5.00
6         0.00     YES   HRDOW

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN


                                                *** SOURCE IDs DEFINING
SOURCE GROUPS ***

 SRCGROUP ID                                                SOURCE IDs
 -----------                                                ----------


  LINE       L0000001    , L0000002    , L0000003    , L0000004    ,
L0000005    , L0000006    , L0000007    , L0000008    ,

             L0000009    , L0000010    , L0000011    , L0000012    ,
L0000013    , L0000014    , L0000015    , L0000016    ,
```

```
             L0000017    , L0000018    , L0000019    , L0000020    ,
L0000021    , L0000022    , L0000023    , L0000024    ,

             L0000025    , L0000026    , L0000027    , L0000028    ,
L0000029    , L0000030    , L0000031    , L0000032    ,

             L0000033    , L0000034    , L0000035    , L0000036    ,
L0000037    , L0000038    , L0000039    , L0000040    ,

             L0000041    , L0000042    , L0000043    , L0000044    ,
L0000045    , L0000046    , L0000047    , L0000048    ,

             L0000049    , L0000050    , L0000051    , L0000052    ,
L0000053    , L0000054    , L0000055    , L0000056    ,

             L0000057    , L0000058    , L0000059    , L0000060    ,
L0000061    , L0000062    , L0000063    , L0000064    ,

             L0000065    , L0000066    , L0000067    , L0000068    ,
L0000069    , L0000070    , L0000071    , L0000072    ,

             L0000073    , L0000074    , L0000075    , L0000076    ,
L0000077    , L0000078    , L0000079    , L0000080    ,

             L0000081    , L0000082    , L0000083    , L0000084    ,
L0000085    , L0000086    , L0000087    , L0000088    ,

             L0000089    , L0000090    , L0000091    , L0000092    ,
L0000093    , L0000094    , L0000095    , L0000096    ,

             L0000097    , L0000098    , L0000099    , L0000100    ,
L0000101    , L0000102    , L0000103    , L0000104    ,

             L0000105    , L0000106    , L0000107    , L0000108    ,

  AREA       PAREA2      ,

  ALL        PAREA2      , L0000001    , L0000002    , L0000003    ,
L0000004    , L0000005    , L0000006    , L0000007    ,

             L0000008    , L0000009    , L0000010    , L0000011    ,
L0000012    , L0000013    , L0000014    , L0000015    ,

             L0000016    , L0000017    , L0000018    , L0000019    ,
L0000020    , L0000021    , L0000022    , L0000023    ,

             L0000024    , L0000025    , L0000026    , L0000027    ,
L0000028    , L0000029    , L0000030    , L0000031    ,

             L0000032    , L0000033    , L0000034    , L0000035    ,
L0000036    , L0000037    , L0000038    , L0000039    ,
```

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
	L0000040 , L0000041 , L0000042 , L0000043 , L0000044 , L0000045 , L0000046 , L0000047 ,
	L0000048 , L0000049 , L0000050 , L0000051 , L0000052 , L0000053 , L0000054 , L0000055 ,
	L0000056 , L0000057 , L0000058 , L0000059 , L0000060 , L0000061 , L0000062 , L0000063 ,
	L0000064 , L0000065 , L0000066 , L0000067 , L0000068 , L0000069 , L0000070 , L0000071 ,
	L0000072 , L0000073 , L0000074 , L0000075 , L0000076 , L0000077 , L0000078 , L0000079 ,
	L0000080 , L0000081 , L0000082 , L0000083 , L0000084 , L0000085 , L0000086 , L0000087 ,
	L0000088 , L0000089 , L0000090 , L0000091 , L0000092 , L0000093 , L0000094 , L0000095 ,
	L0000096 , L0000097 , L0000098 , L0000099 , L0000100 , L0000101 , L0000102 , L0000103 ,
	L0000104 , L0000105 , L0000106 , L0000107 , L0000108 ,

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
PAREA2	10000.	L0000001, L0000002, L0000003, L0000004, L0000005, L0000006, L0000007,
		L0000008, L0000009, L0000010, L0000011, L0000012, L0000013, L0000014, L0000015,
		L0000016, L0000017, L0000018, L0000019, L0000020, L0000021, L0000022, L0000023,
		L0000024, L0000025, L0000026, L0000027, L0000028, L0000029, L0000030, L0000031,
		L0000032, L0000033, L0000034, L0000035, L0000036, L0000037, L0000038, L0000039,
		L0000040, L0000041, L0000042, L0000043, L0000044, L0000045, L0000046, L0000047,
		L0000048, L0000049, L0000050, L0000051, L0000052, L0000053, L0000054, L0000055,
		L0000056, L0000057, L0000058, L0000059, L0000060, L0000061, L0000062, L0000063,
		L0000064, L0000065, L0000066, L0000067, L0000068, L0000069, L0000070, L0000071,
		L0000072, L0000073, L0000074, L0000075, L0000076, L0000077, L0000078, L0000079,
		L0000080, L0000081, L0000082, L0000083, L0000084, L0000085, L0000086, L0000087,
		L0000088, L0000089, L0000090, L0000091, L0000092, L0000093, L0000094, L0000095,
		L0000096, L0000097, L0000098, L0000099, L0000100, L0000101, L0000102, L0000103,
		L0000104, L0000105, L0000106, L0000107, L0000108,

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = PAREA2 ; SOURCE TYPE = AREAPOLY :

```
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```


* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000001 ; SOURCE TYPE = VOLUME :

```
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000002     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   ***
C:\Users\xli\Desktop\construction HRA storage facility\construction
***        03/20/18
 *** AERMET - VERSION  14134 ***   ***
***        12:13:16

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000003     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000004 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.1000E+01	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.1000E+01	20	.1000E+01
21	.1000E+01	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

```
 SOURCE ID = L0000005     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   ***
C:\Users\xli\Desktop\construction HRA storage facility\construction
***        03/20/18
 *** AERMET - VERSION  14134 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000006     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   ***
C:\Users\xli\Desktop\construction HRA storage facility\construction
***        03/20/18
 *** AERMET - VERSION  14134 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000007     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000008 ; SOURCE TYPE = VOLUME :

```
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```


* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

```
 SOURCE ID = L0000009     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   ***
C:\Users\xli\Desktop\construction HRA storage facility\construction
***        03/20/18
 *** AERMET - VERSION  14134 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000010     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   ***
C:\Users\xli\Desktop\construction HRA storage facility\construction
***        03/20/18
 *** AERMET - VERSION  14134 ***   ***
***        12:13:16

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000011     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000012 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.1000E+01	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.1000E+01	20	.1000E+01
21	.1000E+01	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

```
 SOURCE ID = L0000013     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   ***
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***        03/20/18
 *** AERMET - VERSION  14134 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000014     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   ***
C:\Users\xli\Desktop\construction HRA storage facility\construction
***        03/20/18
 *** AERMET - VERSION  14134 ***   ***
***        12:13:16

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000015     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000016 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.1000E+01
8	.1000E+01	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.1000E+01	18	.1000E+01	19	.1000E+01	20	.1000E+01	21	.1000E+01
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.1000E+01	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SUNDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.1000E+01	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

```
 SOURCE ID = L0000017     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   ***
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***        03/20/18
 *** AERMET - VERSION  14134 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000018     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   ***
C:\Users\xli\Desktop\construction HRA storage facility\construction
***        03/20/18
 *** AERMET - VERSION  14134 ***   ***
***        12:13:16

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000019     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000020 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.1000E+01
8	.1000E+01	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.1000E+01	18	.1000E+01	19	.1000E+01	20	.1000E+01	21	.1000E+01
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.1000E+01	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SUNDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.1000E+01	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

```
 SOURCE ID = L0000021     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   ***
C:\Users\xli\Desktop\construction HRA storage facility\construction
***        03/20/18
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000022     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   ***
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***        03/20/18
 *** AERMET - VERSION  14134 ***   ***
***        12:13:16

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000023     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000024 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.1000E+01
8	.1000E+01	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.1000E+01	18	.1000E+01	19	.1000E+01	20	.1000E+01	21	.1000E+01
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.1000E+01	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SUNDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.1000E+01	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

```
 SOURCE ID = L0000025     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   ***
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***        03/20/18
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000026     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   ***
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 *** AERMET - VERSION  14134 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000027     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000028 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.1000E+01
8	.1000E+01	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.1000E+01	18	.1000E+01	19	.1000E+01	20	.1000E+01	21	.1000E+01
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.1000E+01	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SUNDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.1000E+01	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

```
 SOURCE ID = L0000029     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   ***
C:\Users\xli\Desktop\construction HRA storage facility\construction
***        03/20/18
 *** AERMET - VERSION  14134 ***   ***
***        12:13:16

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000030     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   ***
C:\Users\xli\Desktop\construction HRA storage facility\construction
***        03/20/18
 *** AERMET - VERSION  14134 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000031     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000032 ; SOURCE TYPE = VOLUME :

```
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```


* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

```
 SOURCE ID = L0000033     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   ***
C:\Users\xli\Desktop\construction HRA storage facility\construction
***        03/20/18
 *** AERMET - VERSION  14134 ***   ***
***        12:13:16

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000034     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   ***
C:\Users\xli\Desktop\construction HRA storage facility\construction
***        03/20/18
 *** AERMET - VERSION  14134 ***   ***
***        12:13:16

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000035     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000036 ; SOURCE TYPE = VOLUME :

```
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```


* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

```
 SOURCE ID = L0000037     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   ***
C:\Users\xli\Desktop\construction HRA storage facility\construction
***        03/20/18
 *** AERMET - VERSION  14134 ***   ***
***        12:13:16

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000038     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   ***
C:\Users\xli\Desktop\construction HRA storage facility\construction
***        03/20/18
 *** AERMET - VERSION  14134 ***   ***
***        12:13:16

PAGE  48
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000039     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000040 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.1000E+01	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.1000E+01	20	.1000E+01
21	.1000E+01	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

```
 SOURCE ID = L0000041     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   ***
C:\Users\xli\Desktop\construction HRA storage facility\construction
***        03/20/18
 *** AERMET - VERSION  14134 ***   ***
***        12:13:16

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000042     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   ***
C:\Users\xli\Desktop\construction HRA storage facility\construction
***        03/20/18
 *** AERMET - VERSION  14134 ***   ***
***        12:13:16

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000043     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000044 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.1000E+01
8	.1000E+01	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.1000E+01	18	.1000E+01	19	.1000E+01	20	.1000E+01	21	.1000E+01
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.1000E+01	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SUNDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.1000E+01	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

```
 SOURCE ID = L0000045     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                 DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   ***
C:\Users\xli\Desktop\construction HRA storage facility\construction
***        03/20/18
 *** AERMET - VERSION  14134 ***   ***
***        12:13:16

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000046     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                 DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SATURDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   ***
C:\Users\xli\Desktop\construction HRA storage facility\construction
***        03/20/18
 *** AERMET - VERSION  14134 ***   ***
***        12:13:16

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000047     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000048 ; SOURCE TYPE = VOLUME :

```
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```


* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

```
 SOURCE ID = L0000049     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   ***
C:\Users\xli\Desktop\construction HRA storage facility\construction
***        03/20/18
 *** AERMET - VERSION  14134 ***   ***
***        12:13:16

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000050     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   ***
C:\Users\xli\Desktop\construction HRA storage facility\construction
***        03/20/18
 *** AERMET - VERSION  14134 ***   ***
***        12:13:16

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000051     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000052 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.1000E+01	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.1000E+01	20	.1000E+01
21	.1000E+01	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

```
 SOURCE ID = L0000053     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   ***
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***        03/20/18
 *** AERMET - VERSION  14134 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000054     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   ***
C:\Users\xli\Desktop\construction HRA storage facility\construction
***        03/20/18
 *** AERMET - VERSION  14134 ***   ***
***        12:13:16

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000055     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000056 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.1000E+01	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.1000E+01	20	.1000E+01
21	.1000E+01	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

```
 SOURCE ID = L0000057     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   ***
C:\Users\xli\Desktop\construction HRA storage facility\construction
***        03/20/18
 *** AERMET - VERSION  14134 ***   ***
***        12:13:16

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000058     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   ***
C:\Users\xli\Desktop\construction HRA storage facility\construction
***        03/20/18
 *** AERMET - VERSION  14134 ***   ***
***        12:13:16

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000059     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000060 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.1000E+01	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.1000E+01	20	.1000E+01
21	.1000E+01	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

```
 SOURCE ID = L0000061     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   ***
C:\Users\xli\Desktop\construction HRA storage facility\construction
***        03/20/18
 *** AERMET - VERSION  14134 ***   ***
***        12:13:16

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000062     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   ***
C:\Users\xli\Desktop\construction HRA storage facility\construction
***        03/20/18
 *** AERMET - VERSION  14134 ***   ***
***        12:13:16

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000063     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000064 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.1000E+01
8	.1000E+01	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.1000E+01	18	.1000E+01	19	.1000E+01	20	.1000E+01	21	.1000E+01
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.1000E+01	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SUNDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.1000E+01	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

```
 SOURCE ID = L0000065     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   ***
C:\Users\xli\Desktop\construction HRA storage facility\construction
***        03/20/18
 *** AERMET - VERSION  14134 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000066     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   ***
C:\Users\xli\Desktop\construction HRA storage facility\construction
***        03/20/18
 *** AERMET - VERSION  14134 ***   ***
***        12:13:16

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000067     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000068 ; SOURCE TYPE = VOLUME :

```
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```


* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

```
 SOURCE ID = L0000069     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   ***
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***        03/20/18
 *** AERMET - VERSION  14134 ***   ***
***        12:13:16

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000070     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   ***
C:\Users\xli\Desktop\construction HRA storage facility\construction
***        03/20/18
 *** AERMET - VERSION  14134 ***   ***
***        12:13:16

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000071     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000072 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.1000E+01
8	.1000E+01	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.1000E+01	18	.1000E+01	19	.1000E+01	20	.1000E+01	21	.1000E+01
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.1000E+01	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SUNDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.1000E+01	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

```
 SOURCE ID = L0000073     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   ***
C:\Users\xli\Desktop\construction HRA storage facility\construction
***        03/20/18
 *** AERMET - VERSION  14134 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000074     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   ***
C:\Users\xli\Desktop\construction HRA storage facility\construction
***        03/20/18
 *** AERMET - VERSION  14134 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000075     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000076 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.1000E+01
8	.1000E+01	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.1000E+01	18	.1000E+01	19	.1000E+01	20	.1000E+01	21	.1000E+01
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.1000E+01	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SUNDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.1000E+01	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

```
 SOURCE ID = L0000077     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   ***
C:\Users\xli\Desktop\construction HRA storage facility\construction
***        03/20/18
 *** AERMET - VERSION  14134 ***   ***
***        12:13:16

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000078     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   ***
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 *** AERMET - VERSION  14134 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000079     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000080 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.1000E+01
8	.1000E+01	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.1000E+01	18	.1000E+01	19	.1000E+01	20	.1000E+01	21	.1000E+01
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.1000E+01	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SUNDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.1000E+01	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

```
 SOURCE ID = L0000081     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   ***
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***        03/20/18
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000082     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   ***
C:\Users\xli\Desktop\construction HRA storage facility\construction
***        03/20/18
 *** AERMET - VERSION  14134 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000083     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000084 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.1000E+01
8	.1000E+01	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.1000E+01	18	.1000E+01	19	.1000E+01	20	.1000E+01	21	.1000E+01
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.1000E+01	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SUNDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.1000E+01	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

```
 SOURCE ID = L0000085     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   ***
C:\Users\xli\Desktop\construction HRA storage facility\construction
***        03/20/18
 *** AERMET - VERSION  14134 ***   ***
***        12:13:16

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000086     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   ***
C:\Users\xli\Desktop\construction HRA storage facility\construction
***        03/20/18
 *** AERMET - VERSION  14134 ***   ***
***        12:13:16

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000087     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000088 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.1000E+01	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.1000E+01	20	.1000E+01
21	.1000E+01	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

```
 SOURCE ID = L0000089     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   ***
C:\Users\xli\Desktop\construction HRA storage facility\construction
***        03/20/18
 *** AERMET - VERSION  14134 ***   ***
***        12:13:16

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000090     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   ***
C:\Users\xli\Desktop\construction HRA storage facility\construction
***        03/20/18
 *** AERMET - VERSION  14134 ***   ***
***        12:13:16

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000091     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000092 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.1000E+01
8	.1000E+01	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.1000E+01	18	.1000E+01	19	.1000E+01	20	.1000E+01	21	.1000E+01
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.1000E+01	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SUNDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.1000E+01	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

```
 SOURCE ID = L0000093     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   ***
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***        03/20/18
 *** AERMET - VERSION  14134 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000094     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   ***
C:\Users\xli\Desktop\construction HRA storage facility\construction
***        03/20/18
 *** AERMET - VERSION  14134 ***   ***
***        12:13:16

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000095     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000096 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.1000E+01
8	.1000E+01	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.1000E+01	18	.1000E+01	19	.1000E+01	20	.1000E+01	21	.1000E+01
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.1000E+01	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SUNDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.1000E+01	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

```
 SOURCE ID = L0000097     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   ***
C:\Users\xli\Desktop\construction HRA storage facility\construction
***        03/20/18
 *** AERMET - VERSION  14134 ***   ***
***        12:13:16

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000098     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   ***
C:\Users\xli\Desktop\construction HRA storage facility\construction
***        03/20/18
 *** AERMET - VERSION  14134 ***   ***
***        12:13:16

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000099     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000100 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.1000E+01	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.1000E+01	20	.1000E+01
21	.1000E+01	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

```
 SOURCE ID = L0000101     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   ***
C:\Users\xli\Desktop\construction HRA storage facility\construction
***        03/20/18
 *** AERMET - VERSION  14134 ***   ***
***        12:13:16

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000102     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   ***
C:\Users\xli\Desktop\construction HRA storage facility\construction
***        03/20/18
 *** AERMET - VERSION  14134 ***   ***
***        12:13:16

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000103     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000104 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.1000E+01	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.1000E+01	20	.1000E+01
21	.1000E+01	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

```
 SOURCE ID = L0000105     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   ***
C:\Users\xli\Desktop\construction HRA storage facility\construction
***        03/20/18
 *** AERMET - VERSION  14134 ***   ***
***        12:13:16

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000106     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   ***
C:\Users\xli\Desktop\construction HRA storage facility\construction
***        03/20/18
 *** AERMET - VERSION  14134 ***   ***
***        12:13:16

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000107     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .1000E+01    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .1000E+01   19  .1000E+01   20  .1000E+01
21  .1000E+01   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .1000E+01   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000108 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.1000E+01	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.1000E+01	20	.1000E+01
21	.1000E+01	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** DISCRETE CARTESIAN RECEPTORS ***

(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

```
     ( 565075.4, 4207459.3,      23.6,      23.6,       0.0);
( 565374.0, 4207297.2,      29.7,      29.7,       0.0);
     ( 565350.7, 4207277.4,      29.3,      29.3,       0.0);
( 565325.0, 4207271.5,      28.9,      28.9,       0.0);
     ( 565305.2, 4207270.4,      28.4,      28.4,       0.0);
( 565273.7, 4207262.2,      27.6,      27.6,       0.0);
     ( 565255.0, 4207254.0,      27.3,      27.3,       0.0);
( 565231.6, 4207249.4,      27.1,      27.1,       0.0);
     ( 565213.0, 4207236.5,      27.1,      27.1,       0.0);
( 565183.8, 4207233.0,      27.0,      27.0,       0.0);
     ( 565501.3, 4207312.4,      34.8,      60.0,       0.0);
( 565516.4, 4207325.2,      35.7,      60.0,       0.0);
     ( 565543.3, 4207324.1,      38.4,      60.0,       0.0);
( 565372.9, 4207269.2,      29.5,      29.5,       0.0);
     ( 565474.4, 4207265.7,      32.7,      60.0,       0.0);
( 565222.3, 4207670.7,      32.2,      60.0,       0.0);
     ( 565185.0, 4207657.9,      33.9,      60.0,       0.0);
( 565236.3, 4207708.1,      31.3,      60.0,       0.0);
     ( 565370.5, 4207706.9,      27.9,      27.9,       0.0);
( 565399.7, 4207696.4,      27.5,      27.5,       0.0);
     ( 565428.9, 4207688.2,      27.6,      27.6,       0.0);
( 565151.1, 4207652.0,      32.9,      60.0,       0.0);
     ( 565105.6, 4207646.2,      30.1,      60.0,       0.0);
( 564896.7, 4207642.7,      25.3,      60.0,       0.0);
     ( 564876.8, 4207628.7,      24.0,      60.0,       0.0);
( 564858.1, 4207614.7,      22.6,      60.0,       0.0);
     ( 564838.3, 4207611.2,      21.4,      60.0,       0.0);
( 564807.9, 4207600.7,      19.5,      60.0,       0.0);
     ( 564777.6, 4207600.7,      18.6,      60.0,       0.0);
( 564749.6, 4207603.0,      17.7,      60.0,       0.0);
     ( 564726.2, 4207605.4,      17.4,      60.0,       0.0);
( 564701.7, 4207615.9,      17.4,      60.0,       0.0);
     ( 564681.9, 4207624.0,      17.4,      60.0,       0.0);
( 564649.2, 4207633.4,      17.3,      60.0,       0.0);
     ( 564630.5, 4207640.4,      17.1,      60.0,       0.0);
( 564609.5, 4207650.9,      16.9,      60.0,       0.0);
     ( 564589.7, 4207655.6,      16.9,      60.0,       0.0);
( 564564.0, 4207668.4,      16.9,      60.0,       0.0);
     ( 564538.3, 4207678.9,      16.8,      60.0,       0.0);
( 564517.3, 4207687.1,      16.5,      60.0,       0.0);
```

```
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                                          *** 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 1 1 1 1   1 1 1 1 1 1 1
1 1 1   1 1 1 1 1 1 1 1 1 1   1 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,

 *** AERMOD - VERSION 16216r ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

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

   Surface file:   ..\..\724955\724955.SFC
Met Version:  14134
   Profile file:   ..\..\724955\724955.PFL
   Surface format: FREE
```

```
   Profile format: FREE
   Surface station no.:    93227                   Upper air station
no.:    23230
                   Name: UNKNOWN
Name: OAKLAND/WSO_AP
                   Year:   2009
Year:   2009

 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
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - -
 09 01 01   1 01   -2.8  0.059 -9.000 -9.000 -999.   34.      6.8
0.03   0.63   1.00    1.76  111.   10.0  279.2    2.0
 09 01 01   1 02  -11.4  0.199 -9.000 -9.000 -999.  213.     62.6
0.03   0.63   1.00    3.36   98.   10.0  279.2    2.0
 09 01 01   1 03  -19.9  0.345 -9.000 -9.000 -999.  485.    187.0
0.03   0.63   1.00    5.36   94.   10.0  278.1    2.0
 09 01 01   1 04  -15.8  0.273 -9.000 -9.000 -999.  345.    117.7
0.03   0.63   1.00    4.36   93.   10.0  278.1    2.0
 09 01 01   1 05  -13.7  0.237 -9.000 -9.000 -999.  277.     88.3
0.03   0.63   1.00    3.86   93.   10.0  278.1    2.0
 09 01 01   1 06   -2.8  0.059 -9.000 -9.000 -999.   87.      6.8
0.03   0.63   1.00    1.76   92.   10.0  278.8    2.0
 09 01 01   1 07   -9.1  0.158 -9.000 -9.000 -999.  151.     39.6
0.03   0.63   1.00    2.86  105.   10.0  278.8    2.0
 09 01 01   1 08  -13.6  0.237 -9.000 -9.000 -999.  276.     88.5
0.03   0.63   1.00    3.86   93.   10.0  278.8    2.0
 09 01 01   1 09   -9.4  0.318 -9.000 -9.000 -999.  430.    311.3
0.03   0.63   0.41    4.86   97.   10.0  278.8    2.0
 09 01 01   1 10    4.8  0.296  0.220  0.016   81.  388.   -497.3
0.03   0.63   0.28    4.36  101.   10.0  279.2    2.0
 09 01 01   1 11   11.8  0.301  0.366  0.016  151.  396.   -210.6
0.03   0.63   0.23    4.36   94.   10.0  279.2    2.0
 09 01 01   1 12   15.7  0.335  0.450  0.016  210.  465.   -217.6
0.03   0.63   0.22    4.86   86.   10.0  279.2    2.0
 09 01 01   1 13   16.4  0.291  0.488  0.016  257.  377.   -136.4
0.02   0.63   0.22    4.36  123.   10.0  279.2    2.0
 09 01 01   1 14   13.8  0.334  0.480  0.016  291.  463.   -245.4
0.03   0.63   0.22    4.86  109.   10.0  279.2    2.0
 09 01 01   1 15    8.1  0.202  0.411  0.015  310.  229.    -92.5
0.03   0.63   0.26    2.86  102.   10.0  279.9    2.0
 09 01 01   1 16   -0.4  0.191 -9.000 -9.000 -999.  200.   1603.3
0.03   0.63   0.34    2.86  104.   10.0  279.9    2.0
 09 01 01   1 17   -6.1  0.117 -9.000 -9.000 -999.   97.     23.6
0.03   0.63   0.58    2.36  111.   10.0  279.2    2.0
 09 01 01   1 18  -11.4  0.199 -9.000 -9.000 -999.  213.     62.4
0.03   0.63   1.00    3.36   97.   10.0  278.8    2.0
 09 01 01   1 19   -9.1  0.158 -9.000 -9.000 -999.  152.     39.6
0.03   0.63   1.00    2.86   94.   10.0  278.8    2.0
```

```
 09 01 01   1 20   -9.1  0.158 -9.000 -9.000 -999.  151.     39.6
0.03   0.63   1.00    2.86   87.   10.0  278.8    2.0
 09 01 01   1 21   -2.7  0.059 -9.000 -9.000 -999.   41.      6.8
0.03   0.63   1.00    1.76   90.   10.0  279.2    2.0
 09 01 01   1 22   -6.3  0.110 -9.000 -9.000 -999.   88.     19.2
0.03   0.63   1.00    2.36   72.   10.0  279.2    2.0
 09 01 01   1 23  -11.4  0.199 -9.000 -9.000 -999.  213.     62.6
0.03   0.63   1.00    3.36  100.   10.0  279.2    2.0
 09 01 01   1 24  -11.4  0.199 -9.000 -9.000 -999.  213.     62.6
0.03   0.63   1.00    3.36   90.   10.0  279.2    2.0


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
 09 01 01 01   10.0 1  111.    1.76   279.3   99.0  -99.00  -99.00

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

 *** AERMOD - VERSION 16216r ***   ***
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 *** AERMET - VERSION  14134 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   *** THE ANNUAL AVERAGE CONCENTRATION    VALUES
AVERAGED OVER   5 YEARS FOR SOURCE GROUP: LINE     ***
                                  INCLUDING SOURCE(S):
L0000001    , L0000002    , L0000003    , L0000004    , L0000005    ,
                L0000006    , L0000007    , L0000008    ,
L0000009    , L0000010    , L0000011    , L0000012    , L0000013    ,
                L0000014    , L0000015    , L0000016    ,
L0000017    , L0000018    , L0000019    , L0000020    , L0000021    ,
                L0000022    , L0000023    , L0000024    ,
L0000025    , L0000026    , L0000027    , L0000028    ,  . . .      ,

                                              *** DISCRETE CARTESIAN
RECEPTOR POINTS ***

                                         ** CONC OF DPM      IN
MICROGRAMS/M**3                           **

       X-COORD (M)   Y-COORD (M)        CONC                       X-
COORD (M)   Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         565075.43    4207459.29        0.00004
565374.04    4207297.22        0.00001
         565350.70    4207277.38        0.00001
565325.02    4207271.54        0.00001
```

565305.17   4207270.37   0.00001
565273.66   4207262.20   0.00001
565254.98   4207254.03   0.00001
565231.64   4207249.36   0.00001
565212.96   4207236.52   0.00001
565183.78   4207233.02   0.00001
565501.27   4207312.39   0.00001
565516.44   4207325.23   0.00001
565543.29   4207324.07   0.00001
565372.87   4207269.21   0.00001
565474.42   4207265.70   0.00001
565222.30   4207670.73   0.00014
565184.95   4207657.89   0.00014
565236.31   4207708.08   0.00010
565370.54   4207706.91   0.00004
565399.72   4207696.41   0.00004
565428.90   4207688.24   0.00003
565151.10   4207652.05   0.00015
565105.58   4207646.22   0.00016
564896.65   4207642.72   0.00013
564876.80   4207628.71   0.00015
564858.13   4207614.70   0.00018
564838.29   4207611.20   0.00018
564807.94   4207600.70   0.00022
564777.59   4207600.70   0.00024
564749.58   4207603.03   0.00024
564726.23   4207605.37   0.00024
564701.72   4207615.87   0.00022
564681.88   4207624.04   0.00021
564649.20   4207633.38   0.00020
564630.52   4207640.38   0.00019
564609.51   4207650.89   0.00017
564589.67   4207655.56   0.00017
564563.99   4207668.40   0.00015
564538.31   4207678.90   0.00013
564517.30   4207687.07   0.00012

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE ANNUAL AVERAGE CONCENTRATION   VALUES
AVERAGED OVER   5 YEARS FOR SOURCE GROUP: AREA   ***
INCLUDING SOURCE(S):
PAREA2   ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565075.43	4207459.29	3.70090	565374.04	4207297.22	0.44195
565350.70	4207277.38	0.40339	565325.02	4207271.54	0.47282
565305.17	4207270.37	0.53090	565273.66	4207262.20	0.62483
565254.98	4207254.03	0.67107	565231.64	4207249.36	0.75693
565212.96	4207236.52	0.76010	565183.78	4207233.02	0.84604
565501.27	4207312.39	0.28611	565516.44	4207325.23	0.28943
565543.29	4207324.07	0.24693	565372.87	4207269.21	0.34369
565474.42	4207265.70	0.23106	565222.30	4207670.73	1.09623
565184.95	4207657.89	1.02905	565236.31	4207708.08	0.91660
565370.54	4207706.91	0.73374	565399.72	4207696.41	0.66359
565428.90	4207688.24	0.58750	565151.10	4207652.05	0.92822
565105.58	4207646.22	0.77058	564896.65	4207642.72	0.28986
564876.80	4207628.71	0.28873	564858.13	4207614.70	0.28310
564838.29	4207611.20	0.26605	564807.94	4207600.70	0.24651
564777.59	4207600.70	0.22472	564749.58	4207603.03	0.20539
564726.23	4207605.37	0.19265	564701.72	4207615.87	0.17649
564681.88	4207624.04	0.16513	564649.20	4207633.38	0.15056
564630.52	4207640.38	0.14197	564609.51	4207650.89	0.13243
564589.67	4207655.56	0.12631	564563.99	4207668.40	0.11698
564538.31	4207678.90	0.10917	564517.30	4207687.07	0.10333

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE ANNUAL AVERAGE CONCENTRATION VALUES
AVERAGED OVER 5 YEARS FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S):
PAREA2 , L0000001 , L0000002 , L0000003 , L0000004 ,
L0000005 , L0000006 , L0000007 ,
L0000008 , L0000009 , L0000010 , L0000011 , L0000012 ,
L0000013 , L0000014 , L0000015 ,
L0000016 , L0000017 , L0000018 , L0000019 , L0000020 ,
L0000021 , L0000022 , L0000023 ,
L0000024 , L0000025 , L0000026 , L0000027 , . . . ,

*** DISCRETE CARTESIAN
RECEPTOR POINTS ***

** CONC OF DPM IN
MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
565075.43	4207459.29	3.70095	565374.04	4207297.22	0.44196
565350.70	4207277.38	0.40340	565325.02	4207271.54	0.47283
565305.17	4207270.37	0.53091	565273.66	4207262.20	0.62484
565254.98	4207254.03	0.67108	565231.64	4207249.36	0.75694
565212.96	4207236.52	0.76011	565183.78	4207233.02	0.84605
565501.27	4207312.39	0.28611	565516.44	4207325.23	0.28944
565543.29	4207324.07	0.24693	565372.87	4207269.21	0.34370
565474.42	4207265.70	0.23107	565222.30	4207670.73	1.09637
565184.95	4207657.89	1.02919	565236.31	4207708.08	0.91670
565370.54	4207706.91	0.73378	565399.72	4207696.41	0.66363
565428.90	4207688.24	0.58753	565151.10	4207652.05	0.92836

565105.58 4207646.22 0.77073
564896.65 4207642.72 0.28999
564876.80 4207628.71 0.28888
564858.13 4207614.70 0.28328
564838.29 4207611.20 0.26624
564807.94 4207600.70 0.24673
564777.59 4207600.70 0.22496
564749.58 4207603.03 0.20563
564726.23 4207605.37 0.19289
564701.72 4207615.87 0.17672
564681.88 4207624.04 0.16534
564649.20 4207633.38 0.15076
564630.52 4207640.38 0.14216
564609.51 4207650.89 0.13260
564589.67 4207655.56 0.12648
564563.99 4207668.40 0.11713
564538.31 4207678.90 0.10930
564517.30 4207687.07 0.10345

*** AERMOD - VERSION 16216r *** ***
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE SUMMARY OF MAXIMUM ANNUAL
RESULTS AVERAGED OVER 5 YEARS ***

** CONC OF DPM IN
MICROGRAMS/M**3 **

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

LINE 1ST HIGHEST VALUE IS 0.00024 AT (564726.23,
4207605.37, 17.40, 60.00, 0.00) DC
2ND HIGHEST VALUE IS 0.00024 AT (564749.58,
4207603.03, 17.66, 60.00, 0.00) DC
3RD HIGHEST VALUE IS 0.00024 AT (564777.59,
4207600.70, 18.57, 60.00, 0.00) DC
4TH HIGHEST VALUE IS 0.00022 AT (564701.72,
4207615.87, 17.39, 60.00, 0.00) DC
5TH HIGHEST VALUE IS 0.00022 AT (564807.94,
4207600.70, 19.47, 60.00, 0.00) DC

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          6TH HIGHEST VALUE IS       0.00021 AT (  564681.88,
4207624.04,    17.39,    60.00,    0.00)  DC
          7TH HIGHEST VALUE IS       0.00020 AT (  564649.20,
4207633.38,    17.33,    60.00,    0.00)  DC
          8TH HIGHEST VALUE IS       0.00019 AT (  564630.52,
4207640.38,    17.08,    60.00,    0.00)  DC
          9TH HIGHEST VALUE IS       0.00018 AT (  564838.29,
4207611.20,    21.37,    60.00,    0.00)  DC
         10TH HIGHEST VALUE IS       0.00018 AT (  564858.13,
4207614.70,    22.56,    60.00,    0.00)  DC

AREA      1ST HIGHEST VALUE IS       3.70090 AT (  565075.43,
4207459.29,    23.59,    23.59,    0.00)  DC
          2ND HIGHEST VALUE IS       1.09623 AT (  565222.30,
4207670.73,    32.19,    60.00,    0.00)  DC
          3RD HIGHEST VALUE IS       1.02905 AT (  565184.95,
4207657.89,    33.89,    60.00,    0.00)  DC
          4TH HIGHEST VALUE IS       0.92822 AT (  565151.10,
4207652.05,    32.86,    60.00,    0.00)  DC
          5TH HIGHEST VALUE IS       0.91660 AT (  565236.31,
4207708.08,    31.28,    60.00,    0.00)  DC
          6TH HIGHEST VALUE IS       0.84604 AT (  565183.78,
4207233.02,    26.98,    26.98,    0.00)  DC
          7TH HIGHEST VALUE IS       0.77058 AT (  565105.58,
4207646.22,    30.07,    60.00,    0.00)  DC
          8TH HIGHEST VALUE IS       0.76010 AT (  565212.96,
4207236.52,    27.13,    27.13,    0.00)  DC
          9TH HIGHEST VALUE IS       0.75693 AT (  565231.64,
4207249.36,    27.09,    27.09,    0.00)  DC
         10TH HIGHEST VALUE IS       0.73374 AT (  565370.54,
4207706.91,    27.95,    27.95,    0.00)  DC

ALL       1ST HIGHEST VALUE IS       3.70095 AT (  565075.43,
4207459.29,    23.59,    23.59,    0.00)  DC
          2ND HIGHEST VALUE IS       1.09637 AT (  565222.30,
4207670.73,    32.19,    60.00,    0.00)  DC
          3RD HIGHEST VALUE IS       1.02919 AT (  565184.95,
4207657.89,    33.89,    60.00,    0.00)  DC
          4TH HIGHEST VALUE IS       0.92836 AT (  565151.10,
4207652.05,    32.86,    60.00,    0.00)  DC
          5TH HIGHEST VALUE IS       0.91670 AT (  565236.31,
4207708.08,    31.28,    60.00,    0.00)  DC
          6TH HIGHEST VALUE IS       0.84605 AT (  565183.78,
4207233.02,    26.98,    26.98,    0.00)  DC
          7TH HIGHEST VALUE IS       0.77073 AT (  565105.58,
4207646.22,    30.07,    60.00,    0.00)  DC
          8TH HIGHEST VALUE IS       0.76011 AT (  565212.96,
4207236.52,    27.13,    27.13,    0.00)  DC
          9TH HIGHEST VALUE IS       0.75694 AT (  565231.64,
4207249.36,    27.09,    27.09,    0.00)  DC
         10TH HIGHEST VALUE IS       0.73378 AT (  565370.54,
4207706.91,    27.95,    27.95,    0.00)  DC
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 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR

 *** AERMOD - VERSION 16216r ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

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

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

 A Total of            0 Fatal Error Message(s)
 A Total of            2 Warning Message(s)
 A Total of        10597 Informational Message(s)

 A Total of        43872 Hours Were Processed

 A Total of         9342 Calm Hours Identified

 A Total of         1255 Missing Hours Identified (  2.86 Percent)


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


    ********   WARNING MESSAGES   ********
 CO W320      22       URBOPT: Input Parameter May Be Out-of-Range for
Parameter       URB-POP
 MX W481   43873         MAIN: Data Remaining After End of Year.
Number of Hours=           48

    ************************************
    *** AERMOD Finishes Successfully ***
    ************************************
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