

Appendix C. Health Risk Assessment San Bernardino Countywide Plan

Appendix

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June 2020 | Health Risk Assessment

SAN BERNARDINO COUNTYWIDE PLAN

for County of San Bernardino

Prepared for:

County of San Bernardino

Jerry L. Blum, Countywide Plan Coordinator
385 N. Arrowhead Avenue, 1st Floor
San Bernardino, California 92415
909.387.4422
jerry.blum@lus.sbcounty.gov

Prepared by:

PlaceWorks

Contact: Steve Bush, PE, Senior Engineer
JoAnn Hadfield, Principal
3 MacArthur Place, Suite 1100
Santa Ana, California 92707
714.966.9220
info@placeworks.com
www.placeworks.com

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1.1 REPORT OBJECTIVES AND CONCLUSIONS

Implementation of the Countywide Plan (CWP) would result in added diesel-fueled trucking to roadways within the incorporated and unincorporated county areas compared to the existing conditions. In support of the County of San Bernardino (County) Policy Plan Hazards Element, PlaceWorks conducted a health risk assessment (HRA) to evaluate potential health risk impacts from diesel particulate matter (DPM) exposure within disadvantaged communities already affected by poor air quality (i.e., Muscoy and Bloomington).

For residential receptors in Bloomington and Muscoy, the incremental cancer risks and chronic hazard indices were calculated at the maximum exposed receptor (MER) due to CWP implementation. The results of the HRA are shown in the HRA Summary table, *Health Risk Assessment Results for Maximum Exposed Receptors*.

HRA Summary Health Risk Assessment Results for Maximum Exposed Receptors

Scenario	Incremental Cancer Risk ¹ (per million)	Chronic Hazard Index
Bloomington – Existing No Project ²	261	0.0765
Bloomington – Existing with Project ²	263	0.0772
Bloomington – Net Change Due to CWP Implementation ²	2.4	0.0007
South Coast AQMD Threshold	10	1.0
Exceeds Threshold Due to CWP Implementation?	No	No
Muscoy – Existing No Project ³	49.1	0.0144
Muscoy – Existing with Project ³	50.4	0.0148
Muscoy – Net Change Due to CWP Implementation ³	1.3	0.0004
South Coast AQMD Threshold	10	1.0
Exceeds Threshold Due to CWP Implementation?	No	No

¹ OEHHA (2015) recommends that a 30-year (high-end residency time) exposure duration be used to estimate individual cancer risk for the residential MER. 2040 DPM emission rates used for cancer risk calculations (EMFAC2017).

² The Bloomington residential maximum exposed receptor (MER) is on Church Street, east of Cedar Avenue and north of I-10.

³ The Muscoy residential maximum exposed receptor (MER) is on W Highland Avenue, east of N State Street and north of SR-210.

As shown in the HRA Summary table, the incremental cancer risk for the residential MER in Bloomington and Muscoy due to CWP implementation are 2.4 and 1.3 per million, respectively. Therefore, the incremental cancer risks are below the significance threshold of 10 in a million with CWP implementation. For non-carcinogenic health risks, the chronic hazard indices were well below the significance threshold of 1.0 for the residential MERs for both Bloomington and Muscoy. The existing cancer risks from the existing truck traffic volumes, prior to CWP implementation, are 261 in a million in Bloomington and 49 in a million in Muscoy. For Bloomington, increased truck traffic due to CWP implementation is projected to potentially increase total

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cancer risk by 0.9 percent. For Muscoy, CWP implementation is projected to potentially increase the total cancer risk by 2.6 percent.

1.2 EXISTING SETTING

The existing environmental setting is described in the air quality section of the draft environmental impact report (DEIR) for the Countywide Plan. Relevant portions pertaining to the HRA evaluation are included below.

In response to Assembly Bill (AB) 617 (C. Garcia, Chapter 136, Statutes of 2017), the California Air Resources Board (CARB) has established the Community Air Protection Program. AB 617 requires local air districts to monitor and implement air pollution control strategies that reduce localized air pollution in communities that bear the greatest burdens. In the county, the Muscoy community has been identified as a “year 1” disadvantaged community for its air pollution burden. Communities under consideration for subsequent years (i.e., years 2 through 5), include Bloomington/Fontana/Rialto; Colton/Grand Terrace/San Bernardino (southwest); and Rancho Cucamonga/Ontario (east). The South Coast Air Quality Management District (South Coast AQMD) adopted the Community Emissions Reduction Plan (CERP) for Muscoy under AB 617 on September 6, 2019. The AB 617 “year 1” communities identified by South Coast AQMD share common air quality priorities that are driven by the movement of goods throughout the region (e.g., trucks, equipment used at railyards, off-road diesel equipment, and trains). Mobile sources are the overwhelming source of DPM and cancer risk in these communities. Air quality priorities for the Muscoy community include:

- Reducing emissions from heavy-duty trucks transiting the community by working with local land use agencies to establish designated truck routes.
- Promoting the installation of infrastructure needed to support zero emission vehicles and equipment at warehouses.
- Supporting a transition to zero emission transit buses.
- Replacing older diesel-fueled equipment with cleaner technologies at railyards.
- Reducing children’s exposure to harmful air pollutants by working with local schools to install high efficiency filtrations systems (South Coast AQMD 2019).

The Multiple Air Toxics Exposure Study (MATES) is a monitoring and evaluation study on ambient concentrations of toxic air contaminants (TACs) and the potential health risks from air toxics in the South Coast Air Basin (SoCAB). In 2015, South Coast AQMD released the fourth update of MATES, MATES IV, which was based on the Office of Environmental Health Hazard Assessment’s (OEHHA) 2003 HRA Guidance Manual. The results showed that the overall monitored risk for excess cancer from a lifetime exposure to ambient levels of air toxics is 418 in one million for San Bernardino County. The estimated excess cancer risk ranges from 727 to 840 in one million in Bloomington and 636 to 764 in one million in Muscoy (South Coast AQMD 2018). It should be noted that the MATES results are based on all emission sources within the air basin (ports, railyards, mobile sources, permitted stationary sources, etc.) and are not specific to any single localized

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source. The largest contributor to this risk was diesel exhaust, which accounted for approximately 68 percent of the air toxics risk. Compared to MATES III (2008 study), MATES IV found substantial improvement in air quality and associated decrease in air toxics exposure. As a result, the estimated basinwide, population-weighted risk decreased by approximately 57 percent since MATES III (South Coast AQMD 2015).

1.3 METHODOLOGY AND SIGNIFICANCE THRESHOLDS

The HRA analysis focuses on how increases in truck volumes generated by implementation of the CWP (project) would impact health risks in the AB 617–disadvantaged communities of Bloomington and Muscoy for the 2040 horizon year. Traffic modeling was conducted by Fehr & Peers (F&P) to identify existing and projected truck volumes along roadway segments within incorporated and unincorporated parts of the county, including the fleet mix or percentage breakdown of light, medium, and heavy duty trucks for each segment.

The results of the traffic modeling indicate that overall truck traffic throughout the county would increase as a result of the project, future growth in incorporated areas, and planned roadway network improvements through the horizon year of 2040. The amount and significance of the increase in truck traffic due to CWP implementation, and its associated generation of diesel particulate emissions, is the primary concern of this HRA. Study area roadway segments with an increase of 100 or more trucks per day due to implementation of the CWP were selected for analysis. The 100 trucks per day cutoff was selected consistent with CARB’s recommendation of this threshold for use in the health risk evaluation of truck distribution centers within 1,000 feet of sensitive land uses (CARB 2005). Although a higher threshold (more than 100 trucks per day) is being considered by agencies in recognition of improvements in technology and emissions reductions strategies, this HRA opts to retain the threshold of 100 trucks per day to be conservative and evaluate more roadways and sensitive receptors. Roadway segments with increased truck traffic over 100 trucks per day due to CWP implementation were mapped for the Bloomington and Muscoy communities, and existing routes that prohibit trucks were accounted for in the traffic modeling results provided by F&P.

The following South Coast AQMD significance thresholds for health risks were deemed appropriate and were used for this HRA:

- Excess cancer risk of more than 10 in a million
- Noncancer hazard index (chronic or acute) greater than 1.0

These thresholds are typically applied to new industrial projects. However, for purposes of this analysis, these thresholds are used to determine whether CWP implementation would result in significant health risk impacts from DPM emissions. Traffic modeling was conducted for all areas of the unincorporated county, but Bloomington and Muscoy were the only unincorporated communities that have sensitive receptors and exhibited more than 10 roadway segments with truck trips expected to exceed 100 compared to existing conditions. Projected truck traffic increases in all other unincorporated communities were either less than 100 per segment or less than the levels modeled in Bloomington and Muscoy. Accordingly, analysis was first conducted on Bloomington and Muscoy. Once it was determined that the incremental increase in cancer risk due to CWP implementation was below the South Coast AQMD significance thresholds for the MER in those

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communities, it can be concluded that the incremental increase in cancer risk for other communities is also below the threshold—in almost all cases, substantially below.

The methodology used in this HRA is consistent with South Coast AQMD and the Office of Environmental Health Hazard Assessment (OEHHA) guidance documents:

- OEHHA. *Air Toxics Hot Spots Program Guidance Manual for the Preparation of Health Risk Assessments*. February 2015.
- South Coast AQMD. *Health Risk Assessment Guidance for Analyzing Cancer Risks from Mobile Source Diesel Idling Emissions for CEQA Air Quality Analysis*. August 2003.

Cumulative Thresholds

The South Coast AQMD has published a report on how to address cumulative impacts from air pollution: “White Paper on Potential Control Strategies to Address Cumulative Impacts from Air Pollution” (Goss and Kroeger 2003). Page D-3 of the South Coast AQMD report states:

...the South Coast AQMD uses the same significance thresholds for project specific and cumulative impacts for all environmental topics analyzed in an Environmental Assessment or EIR. The only case where the significance thresholds for project specific and cumulative impacts differ is the Hazard Index (HI) significance threshold for toxic air contaminant (TAC) emissions. The project specific (project increment) significance threshold is $HI > 1.0$ while the cumulative (facility-wide) is $HI > 3.0$. It should be noted that the HI is only one of three TAC emission significance thresholds considered (when applicable) in a CEQA analysis. The other two are the maximum individual cancer risk (MICR) and the cancer burden, both of which use the same significance thresholds (MICR of 10 in 1 million and cancer burden of 0.5) for project specific and cumulative impacts.

Projects that exceed the project-specific significance thresholds are considered by the South Coast AQMD to be cumulatively considerable. This is the reason project-specific and cumulative significance thresholds are the same. Conversely, projects that do not exceed the project-specific thresholds are generally not considered to be cumulatively significant.

Therefore, if the project’s projected impacts are below the project-specific significance thresholds, the project would not result in significant cumulative impacts.

1.4 ROADWAY EMISSIONS

To estimate the increase in truck trips associated with buildout of the CWP, F&P used data outputs from travel demand forecasting runs of the San Bernardino County Transportation Analysis Model (SBTAM). F&P used the most current land use data available for within the study area (the unincorporated areas of San Bernardino County) and outside the study area. For purposes of this analysis, these traffic scenarios were evaluated:

- Existing No Project. Includes the Southern California Association of Governments (SCAG) 2016 land data use set for unincorporated areas; SCAG 2012 land use for incorporated areas; SCAG 2012 roadway

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network data; and 2020 vehicle emission factors from EMFAC2017 for light-heavy, medium-heavy, and heavy-heavy duty trucks in San Bernardino County (CARB 2017).

- Existing with Project. Includes County 2040 land data use set for unincorporated areas with CWP implementation; SCAG 2012 land use for incorporated areas; SCAG 2012 roadway network data; and 2040 vehicle emission factors from EMFAC2017 for light-heavy, medium-heavy, and heavy-heavy duty trucks in San Bernardino County (CARB 2017).
- Cumulative No Project (qualitative analysis). Includes SCAG 2040 land data use set for unincorporated areas, SCAG 2040 land use for incorporated areas, and SCAG 2040 roadway network data.
- Cumulative with Project (qualitative analysis). Includes County 2040 land data use set for unincorporated areas with CWP implementation, SCAG 2040 land use for incorporated areas, and SCAG 2040 roadway network data.

The Existing with Project condition is compared to the Existing No Project condition to determine the potential impacts of CWP implementation. This approach represents the worst-case scenario because it compares the added trucks from CWP implementation (horizon year 2040) to the existing roadway network (SCAG 2012). Future development in the surrounding incorporated county areas and roadway network improvements would result in potentially changing vehicle travel patterns within the traffic study areas (SCAG 2016). Thus, comparison of these two scenarios better gauges the potential impacts from the change in truck traffic from CWP implementation and eliminates the impact of nonproject-related ambient traffic growth.

F&P provided truck volumes for three types of heavy duty trucks—light-heavy (8,501 to 14,000 lbs, 2-axle), medium-heavy (14,001 to 33,000 lbs, 2–3-axle) and heavy-heavy (>33,001 lbs, 3–5-axle)—in the incorporated and unincorporated county areas. Changes in traffic distribution within the traffic study area due to CWP implementation were modeled for:

- Change in heavy vehicle trips on roadways and Interstate 10 (I-10) within 1,000 feet of Bloomington's AB 617 boundary (see Figure 1).
- Change in heavy vehicle trips on roadways and State Route 210 (SR-210) within 1,000 feet of Muscoy's AB 617 boundary (see Figure 2).

This HRA involved the following:

- Evaluation of emissions associated with light-heavy, medium-heavy, and heavy-heavy duty trucks on roadway segments experiencing a net change of 100 trucks per day or more due to CWP implementation and truck rerouting in the larger study area.
- Air dispersion modeling using the AERMOD computer model to quantify maximum ground-level concentrations for residential receptors in the AB 617 communities that are within 1,000 feet of the impacted roadways. Meteorological data from the nearest South Coast AQMD monitoring station with

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similar meteorological conditions (Fontana, 2011–2013, 2015–2016) were used to represent local weather conditions and prevailing winds (South Coast AQMD 2016).

- Determination of cancer and noncancer risks to residents in the Bloomington and Muscoy AB 617 communities based on the results of the air dispersion model. The assessment considered exposure through the inhalation pathway. Unit risk factors and cancer potency factors were used to determine carcinogenic risk, and recommended exposure limits were used to determine noncarcinogenic risk.
- Preparation of a health risk assessment report that compares the calculated risks with thresholds established by the South Coast AQMD and OEHHA (OEHHA 2015).

1.4.1 Bloomington

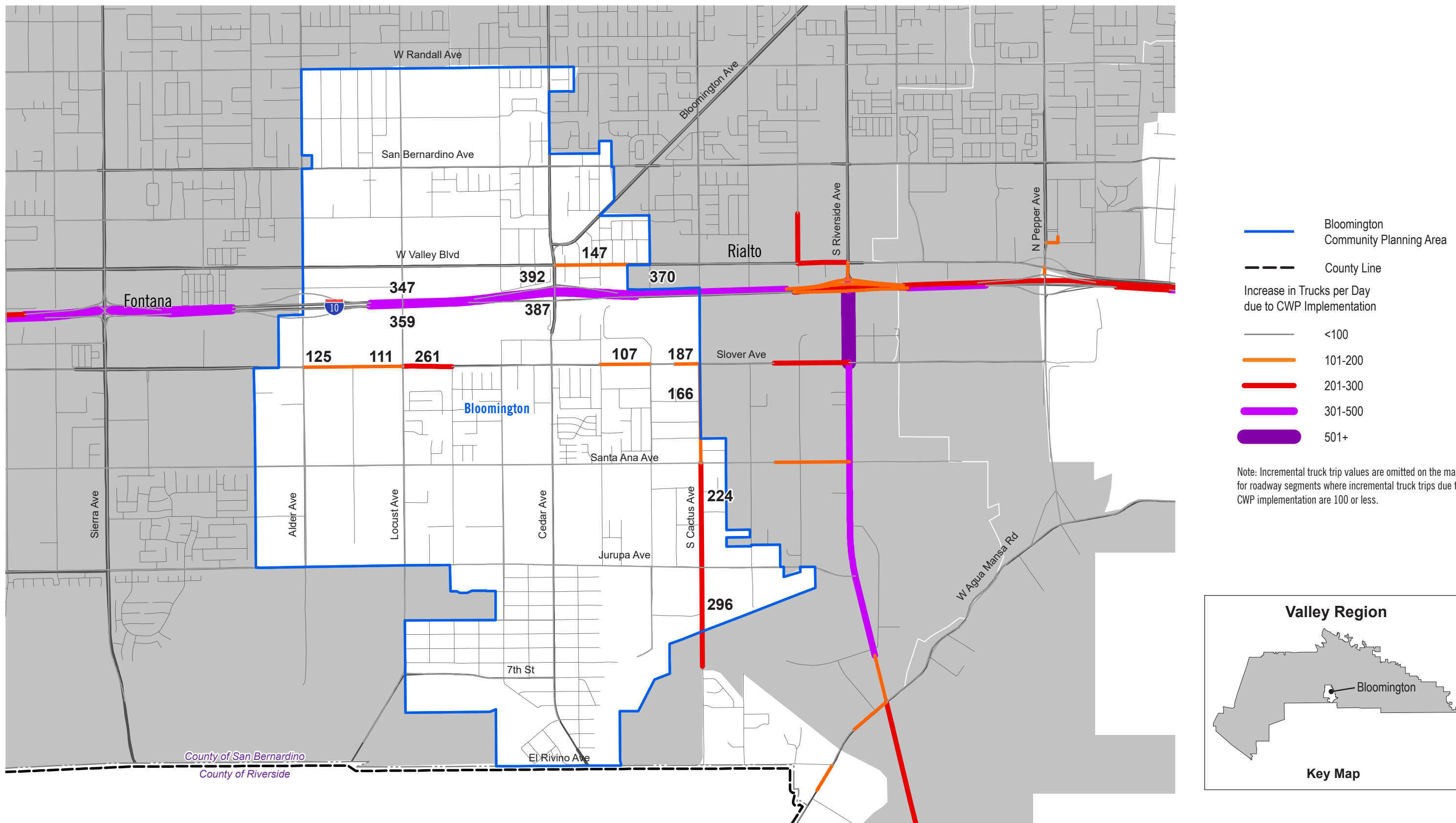
For the Bloomington evaluation, the selected roadways are shown in Table 1, *Bloomington: Evaluated Roadway Segments*, and Figure 1, *Bloomington: Increase in Trucks per Day Due to CWP Implementation*.

**Table 1 Bloomington: Evaluated Roadway Segments,
Segments with Truck Increases of 100 per Day Due to CWP Implementation**

Roadway	Segment
Valley Boulevard	East of Cedar Avenue
I-10 Westbound	East of Alder Avenue
I-10 Westbound	Cedar Avenue underpass
I-10 Westbound	West of Cactus Avenue
I-10 Eastbound	East of Alder Avenue
I-10 Eastbound	Cedar Avenue underpass
Slover Avenue	East of Alder Avenue
Slover Avenue	West of Locust Avenue
Slover Avenue	East of Locust Avenue
Slover Avenue	West of Spruce Avenue
Slover Avenue	West of Cactus Avenue
Cactus Avenue	North of Santa Ana Avenue
Cactus Avenue	North of Jurupa Avenue
Cactus Avenue	South of Jurupa Avenue

Source: Fehr & Peers 2020.

Note: Table only lists roadways with an increase in traffic volume of 100 trucks per day or more due to CWP implementation (Existing with Project compared to Existing No Project scenarios).



0 0.25 0.5 Miles Date: 05/27/2020 Created by PlaceWorks

Note: The data reflects the roadways impacted in Bloomington comparing projected buildout of the CWP with existing conditions. Unincorporated county areas are shown in white.

Fig. 1 Increase in Trucks Per Day Due to CWP Implementation



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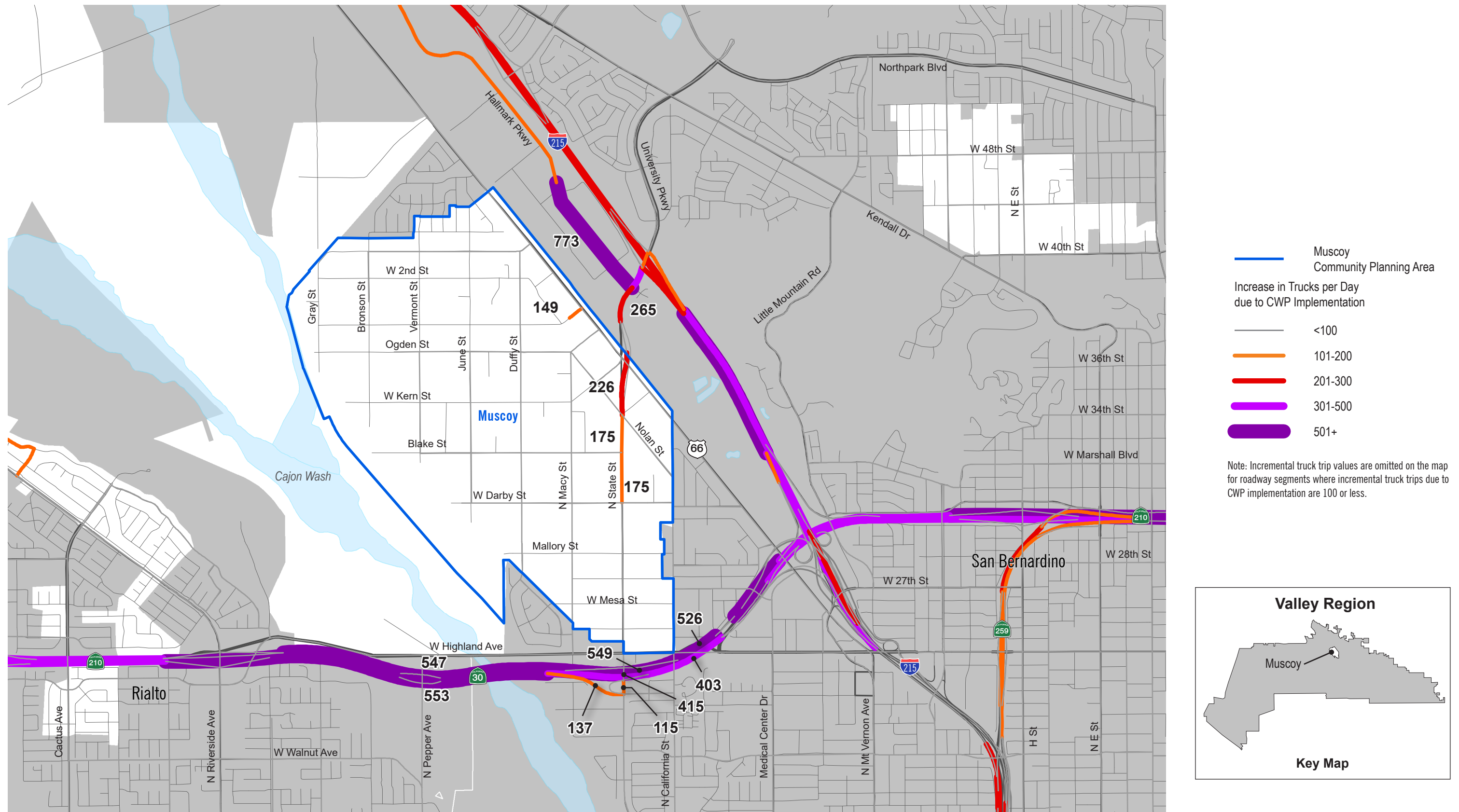


Fig. 2 Increase in Trucks Per Day Due to CWP Implementation

0 0.25 0.5 Miles
Date: 05/27/2020 Created by PlaceWorks

Note: The data reflects the roadways impacted in Muscoy comparing projected buildout of the CWP with existing conditions. Unincorporated county areas are shown in white.



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Table 2, *Increase in Average Daily Truck Traffic, Bloomington*, lists the average truck volumes with CWP implementation for the selected roadway segments. Figure 1 shows the roadway segments that were studied and the change in daily truck traffic due to the implementation of the project.

The emission factor (gram per mile) used for the analysis is derived from EMFAC2017 for light-heavy (LHDT1), medium-heavy (MHD1), and heavy-heavy duty (HHDT) vehicle classes (CARB 2017). The PM₁₀ emission factor for diesel-fueled vehicles was used as the surrogate for DPM for the horizon year of 2040 (CARB 2017).

Table 2 Increase in Average Truck Daily Traffic, Bloomington

#	Roadway	Segment	Existing No Project Average Daily Traffic (trucks/day)	Existing with Project Average Daily Traffic (trucks/day)	Increase in Average Daily Traffic (trucks/day)
1	Valley Boulevard	EO Cedar Ave	59	206	147
2	I-10 Westbound	EO Alder Ave	9,927	10,274	347
3	I-10 Westbound	Cedar Ave underpass	9,307	9,699	392
4	I-10 Westbound	WO Cactus Ave	9,560	9,930	370
5	I-10 Eastbound	EO Alder Ave	11,253	11,612	359
6	I-10 Eastbound	Cedar Ave underpass	10,463	10,850	387
7	Slover Avenue	EO Alder Ave	521	646	125
8	Slover Avenue	WO Locust Ave	511	622	111
10	Slover Avenue	EO Locust Ave	729	990	261
9	Slover Avenue	WO Spruce Ave	433	540	107
11	Slover Avenue	WO Cactus Ave	346	533	187
12	Cactus Avenue	NO Santa Ana Ave	149	315	166
13	Cactus Avenue	NO Jurupa Ave	203	427	224
14	Cactus Avenue	SO Jurupa Ave	71	367	296

Source: F&P 2020.

Notes: EO = east of; WO = west of; NO = north of; SO = south of

1.4.2 Muscoy

For the Muscoy evaluation, the selected roadways are shown in Table 3, *Muscoy: Evaluated Roadway Segments*, and Figure 2, *Muscoy: Increase in Trucks per Day Due to CWP Implementation*.

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**Table 3 Muscoy: Evaluated Roadway Segments,
Segments with Truck Increases of 100 per Day Due to CWP Implementation**

Roadway	Segment
W 1st Street	West of Cajon Boulevard
University Parkway	North of Interchange Drive
University Parkway	South of Interchange Drive
N State Street	North of Blake Street
N State Street	South of Blake Street
SR-210 Westbound	East of California Street
SR-210 Westbound	West of California Street
SR-210 Westbound	West of Macy Street
SR-210 Eastbound	West of State Street Offramp
SR-210 Eastbound	East of State Street Offramp
SR-210 Eastbound	East of State Street Onramp
Hallway Parkway	West of University Parkway
SR-210 State Street Eastbound Offramp	West of State Street
State Street	North of Eastbound Offramp

Source: Fehr & Peers 2020.

Note: Table only lists roadways with an increase in traffic volume of 100 trucks per day or more due to CWP implementation (Existing with Project compared to Existing No Project scenarios).

Table 4, *Increase in Average Daily Traffic, Muscoy*, lists the average truck volumes with CWP implementation for the selected roadway segments. Figure 2 shows the roadway segments that were studied and the change in daily truck traffic due to the implementation of the project.

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Table 4 Increase in Average Truck Daily Traffic, Muscoy

#	Roadway	Segment	Existing No Project Average Daily Traffic (trucks/day)	Existing with Project Average Daily Traffic (trucks/day)	Increase in Average Daily Traffic (trucks/day)
1	W 1st Street	WO Cajon Boulevard	54	203	149
2	University Parkway	NO Interchange Dr	348	613	265
3	University Parkway	SO Interchange Dr	294	520	226
4	N State Street	NO Blake St	371	546	175
5	N State Street	SO Blake St	371	546	175
6	SR-210 Westbound	EO California St	3,988	4,514	526
7	SR-210 Westbound	WO California St	3,908	4,457	549
8	SR-210 Westbound	WO Macy St	4,465	5,012	547
10	SR-210 Eastbound	WO State St Offramp	5,217	5,770	553
9	SR-210 Eastbound	EO State St Offramp	4,745	5,160	415
11	SR-210 Eastbound	EO State St Onramp	4,794	5,197	403
12	Hallway Parkway	WO University Pkwy	111	884	773
13	SR-210 State Street Eastbound Offramp	WO State St	471	608	137
14	State Street	NO SR-210 Eastbound Offramp	620	735	115

Source: F&P 2020.

Notes: EO = east of; WO = west of; NO = north of; SO = south of

1.5 AIR DISPERSION MODELING

Air quality modeling was performed using the AERMOD atmospheric dispersion model. The model is a steady-state Gaussian plume model and is approved by South Coast AQMD for estimating ground-level impacts from point and fugitive sources in simple and complex terrain. The model requires additional input parameters, including chemical emission data and local meteorology. Meteorological data was provided by South Coast AQMD from the Fontana meteorological station for the years 2011 to 2013 and 2015 to 2016 to represent local weather conditions and prevailing winds. According to the wind rose for the Fontana meteorological station, presented in Appendix B, the prevailing wind direction in the area of the study areas is toward the east-northeast (ENE).

The modeling also considered the spatial distribution and elevation of each emitting source in relation to the sensitive receptors. To accommodate the model's Cartesian grid format, direction-dependent calculations were obtained by identifying the Universal Transverse Mercator (UTM) coordinates for each source location. In addition, digital elevation model (DEM) data for the area were obtained and included in the model runs to account for complex terrain.

Adjacent volume sources were used to model the roadways in AERMOD. A release height of 3.5 meters (m) was used to represent truck traffic, based on a vehicle height of 4.12 m and plume height of 7 m. The roadway emissions were applied to all hours of the day in the model because residents are conservatively assumed to be

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present 24 hours a day. The graphical representation of the model sources and receptors is in Appendix B, and the AERMOD model outputs are in Appendix C.

1.6 RISK CHARACTERIZATION

1.6.1 Carcinogenic Chemical Risk

A threshold risk of ten in a million ($10E^{-06}$) has been established as posing no significant risk for exposures to carcinogens. Health risks associated with exposure to carcinogenic compounds can be defined in terms of the probability of developing cancer as a result of exposure to a chemical at a given concentration. The cancer risk probability is determined by multiplying the chemical's annual concentration by its cancer potency factor (CPF), a measure of the carcinogenic potential of a chemical when a dose is received through the inhalation pathway. It is an upper-limit estimate of the probability of contracting cancer as a result of continuous exposure to an ambient concentration of one microgram per cubic meter ($\mu\text{g}/\text{m}^3$) over a lifetime of 70 years.

Recent guidance from OEHHA recommends a refinement of the standard point-estimate approach to use age-specific breathing rates and age sensitivity factors (ASF) to assess risk for susceptible subpopulations, such as children. For the inhalation pathway, the procedure requires the incorporation of several discrete variates to effectively quantify dose for each age group. Once determined, contaminant dose is multiplied by the CPF in units of inverse dose expressed in milligrams per kilogram per day ($\text{mg}/\text{kg}/\text{day}$)⁻¹ to derive the cancer risk estimate. Therefore, to accommodate the unique exposures associated with the residential receptors, the following dose algorithm was used.

$$\text{Dose}_{\text{AIR, per age group}} = (C_{\text{air}} \times \text{EF} \times [\frac{\text{BR}}{\text{BW}}] \times A \times \text{CF})$$

Where:

Dose_{AIR}	=	dose by inhalation ($\text{mg}/\text{kg}/\text{day}$), per age group
C_{air}	=	concentration of contaminant in air ($\mu\text{g}/\text{m}^3$)
EF	=	exposure frequency (number of days/365 days)
BR/BW	=	daily breathing rate normalized to body weight ($\text{L}/\text{kg}/\text{day}$)
A	=	inhalation absorption factor (default = 1)
CF	=	conversion factor (1×10^{-6} , μg to mg , L to m^3)

The inhalation absorption factor (A) is a unitless factor that is only used if the CPF included a correction for absorption across the lung. For this assessment, the default value of 1 was used. For residential receptors, the exposure frequency (EF) of 0.96 is used to represent 350 days per year to allow for two weeks away from home each year (OEHHA 2015). The 95th percentile daily breathing rates (BR/BW), exposure duration (ED), age sensitivity factors (ASF), and fraction of time at home (FAH) for the various age groups are provided below.

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<u>Age Groups</u>	<u>BR/BW (L/kg-day)</u>	<u>ED</u>	<u>ASF</u>	<u>FAH</u>
Third trimester	361	0.25	10	0.85
0–2 age group	1,090	2	10	0.85
2–9 age group	861	7	3	0.72
2–16 age group	745	14	3	0.72
16–30 age group	335	14	1	0.73
16–70 age group	290	54	1	0.73

To calculate the overall cancer risk, the risk for each appropriate age group is calculated per the following equation:

$$\text{Cancer Risk}_{\text{AIR}} = \text{Dose}_{\text{AIR}} \times \text{CPF} \times \text{ASF} \times \text{FAH} \times \frac{\text{ED}}{\text{AT}}$$

Where:

Dose _{AIR}	=	dose by inhalation (mg/kg-day), per age group
CPF	=	cancer potency factor, chemical-specific (mg/kg-day) ⁻¹
ASF	=	age sensitivity factor, per age group
FAH	=	fraction of time at home, per age group (for residential receptors only)
ED	=	exposure duration (years)
AT	=	averaging time period over which exposure duration is averaged (70 years)

The CPFs used in the assessment were obtained from OEHHA guidance. The excess lifetime cancer risks during the construction period to the maximally exposed resident were calculated based on the factors provided above. The cancer risks for each age group are summed to estimate the total cancer risk for each toxic chemical species. The final step converts the cancer risk in scientific notation to a whole number that expresses the cancer risk in “chances per million” by multiplying the cancer risk by a factor of 1x10⁶ (i.e., 1 million).

The assessment was based on reasonable maximum exposure, defined as the “highest exposure that is reasonably expected to occur” for a given receptor population. Lifetime risk values for the adult residents were calculated for an exposure of 350 days per year for 30 years (high-end estimate) in accordance with OEHHA’s guidance. It was assumed that the residential MER spent 24 hours/day, 7 days/week, 350 days/year outside near the residence, per default exposure parameters.

The calculated results are provided in Section 2.0 and HRA Appendix D.

1.6.2 Noncarcinogenic Hazards

An evaluation of the potential noncancer effects of chronic and acute chemical exposures was also conducted. Adverse health effects are evaluated by comparing the annual receptor level (ground) concentration of each chemical compound with the appropriate reference exposure limit (REL). Available RELs promulgated by OEHHA were considered in the assessment.

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The hazard index approach was used to quantify noncarcinogenic impacts. The hazard index assumes that chronic and acute subthreshold exposures adversely affect a specific organ or organ system (toxicological endpoint). Target organs identified in regulatory guidance were used for each discrete chemical exposure. Each chemical concentration or dose is divided by the appropriate toxicity value to calculate the hazard index. This ratio is summed for compounds affecting the same toxicological endpoint. A health hazard is presumed to exist where the total equals or exceeds one.

The chronic hazard analysis from DPM exposure is provided Section 2.0 and in HRA Appendix D.

2. Results and Discussion

2.1 CWP IMPLEMENTATION HEALTH RISK RESULTS

For residential receptors in Bloomington and Muscoy, the incremental cancer risks and chronic hazard indices were calculated at the maximum exposed receptor (MER). The MER locations are depicted in Figures 3 and 4. The residential MER location in Bloomington is a receptor on Church Street, east of Cedar Avenue and north of I-10 (Figure 3). The residential MER location in Muscoy is a receptor on W Highland Avenue, east of N State Street and north of SR-210 (Figure 4). The results of the HRA are shown in Table 5, *Health Risk Assessment Results for Maximum Exposed Receptors*.

Table 5 Health Risk Assessment Results for Maximum Exposed Receptors

Scenario	Incremental Cancer Risk ¹ (per million)	Chronic Hazard Index
Bloomington – Existing No Project ²	261	0.0765
Bloomington – Existing with Project ²	263	0.0772
Bloomington – Net Change Due to With CWP Implementation ²	2.4	0.0007
South Coast AQMD Threshold	10	1.0
Exceeds Threshold Due to CWP Implementation?	No	No
Muscoy – Existing No Project ³	49.1	0.0144
Muscoy – Existing with Project ³	50.4	0.0148
Muscoy – Net Change Due to CWP Implementation ³	1.3	0.0004
South Coast AQMD Threshold	10	1.0
Exceeds Threshold Due to CWP Implementation?	No	No

¹ OEHHA (2015) recommends that a 30-year (high-end residency time) exposure duration be used to estimate individual cancer risk for the residential MER. 2040 DPM emission rates used for cancer risk calculations (EMFAC2017).

² The Bloomington residential maximum exposed receptor (MER) is on Church Street, east of Cedar Avenue and north of I-10 (Figure 3).

³ The Muscoy residential maximum exposed receptor (MER) is on W Highland Avenue, east of N State Street and north of SR-210 (Figure 4).

As shown in Table 5, the incremental cancer risk due to CWP implementation for the residential MER in Bloomington and Muscoy are 2.4 and 1.3 per million, respectively. Therefore, the incremental cancer risks with CWP implementation are below the significance threshold of 10 in a million. For noncarcinogenic health risks, the chronic hazard indices were well below the significance threshold of 1.0 for the residential MERs for both Bloomington and Muscoy. The overwhelming majority of sensitive receptors in both Bloomington and Muscoy are projected to experience much lower increases in cancer risk due to CWP implementation, compared to their respective MER locations. The existing cancer risks from the existing truck traffic volumes, prior to CWP implementation, are 261 in a million in Bloomington and 49 in a million in Muscoy. For Bloomington, CWP

2. Results and Discussion

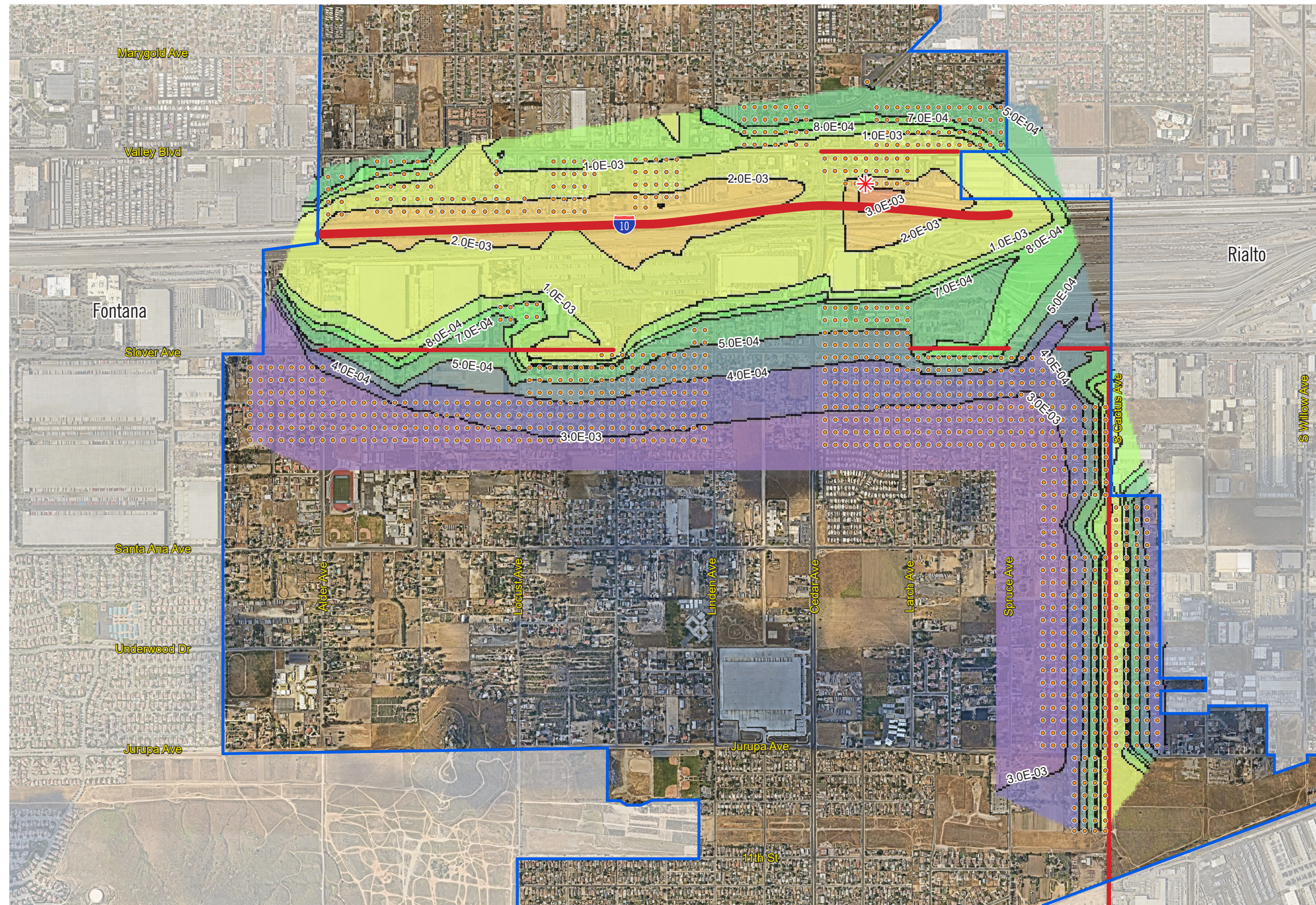
implementation is projected to potentially increase total cancer risk by less than 1 percent (0.9 percent). For Muscoy, CWP implementation is projected to potentially increase the total cancer risk by 2.6 percent.

In addition to the cancer risk calculations in Table 5, risks were also calculated using 2020 vehicle emission factors from EMFAC2017. The use of 2020 emission factors for trucks creates an upper-bound incremental cancer risk for the hypothetical scenario wherein the addition truck traffic from CWP implementation would occur immediately in the current year (2020). Even in this hypothetical and nearly impossible scenario, the incremental cancer risks were projected to increase by 8.1 in a million for Bloomington and 4.7 in a million for Muscoy. Similar to the results in Table 5, the incremental cancer risks with CWP implementation remain below the significance threshold of 10 in a million.

It should be noted that these health impacts were based on conservative (i.e., health protective) assumptions. The USEPA (2005) and OEHHA (2015) note that conservative assumptions used in a risk assessment are intended to ensure that the estimates do not underestimate the actual risks. Therefore, the estimated risks do not necessarily represent actual risks experienced by populations at or near a site.

For this HRA, the following conservative assumptions were used:

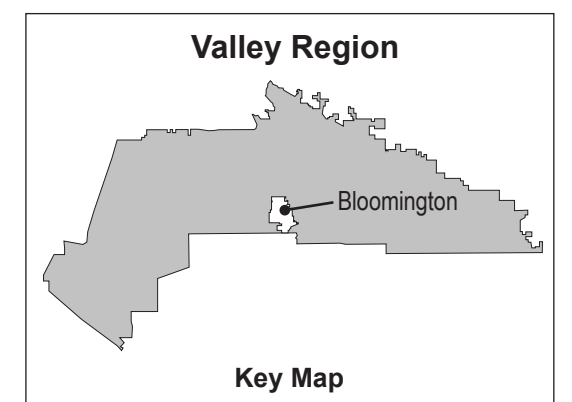
- For the residential exposure scenario, it was assumed that the children and adults at the MER reside at their current location for 30 years. Most residents do not live at the same location for 30 years. Approximately 11 percent of the residents of San Bernardino County have lived in their homes since 1989 (US Census, 2020).
- The cancer risks were determined for residential receptors, which produce higher calculated cancer risks compared to other receptor types. For instances, the cancer risk calculation for worker receptors includes an exposure duration of 25 years and an exposure frequency of 8 hours/day, 5 days/week, 250 days/year at their workplace. Additionally, the worker scenario uses the 16- to 70-year age bin with no added age sensitivity factors (OEHHA 2015). Therefore, the 30-year residential cancer risk calculation produces much higher risks compared to the worker scenario. Similarly, the cancer risk calculations for day cares and schools produce lower risks compared to residential receptors due to shorter exposure durations (5 to 13 years for day cares and schools) and lower exposure frequencies (typically 180 to 250 days per year, 8 hours per day, Monday through Friday) compared to residential receptors (350 days per year, 24 hours per day).
- The calculated risk for third-trimester pregnancies and children from 0 to 2 years is multiplied by a factor of 10 (age sensitivity factor), and the calculated risk for children from 2 to 16 years is multiplied by a factor of 3 to account for early life exposure and uncertainty in child vs. adult exposure impacts. Thus, the estimated risks are conservative.



- Bloomington Community Planning Area
- Roadways Impacted by Project
- Sensitive Receptors
- ✱ Maximum Exposed Receptor (MER)

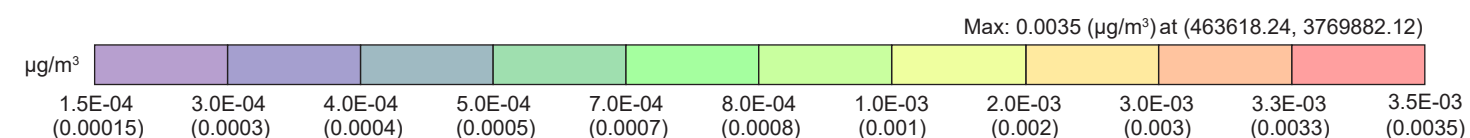
Note: DPM concentration at MER location results in less than 10 in a million cancer risk.

Note: The map displays data within 1,000 feet of roadway segments where incremental truck trips due to CWP implementation are greater than 100.



0 700 1,400 Feet

Date: 05/27/2020 Created by PlaceWorks



Note: The scale depicts the level of diesel particulate matter (DPM) generated by increased truck traffic due to CWP implementation. The highest level of DPM concentration is 0.0035 $\mu\text{g}/\text{m}^3$, which is less than the 10 in a million cancer risk threshold (concentration > 0.015 $\mu\text{g}/\text{m}^3$).

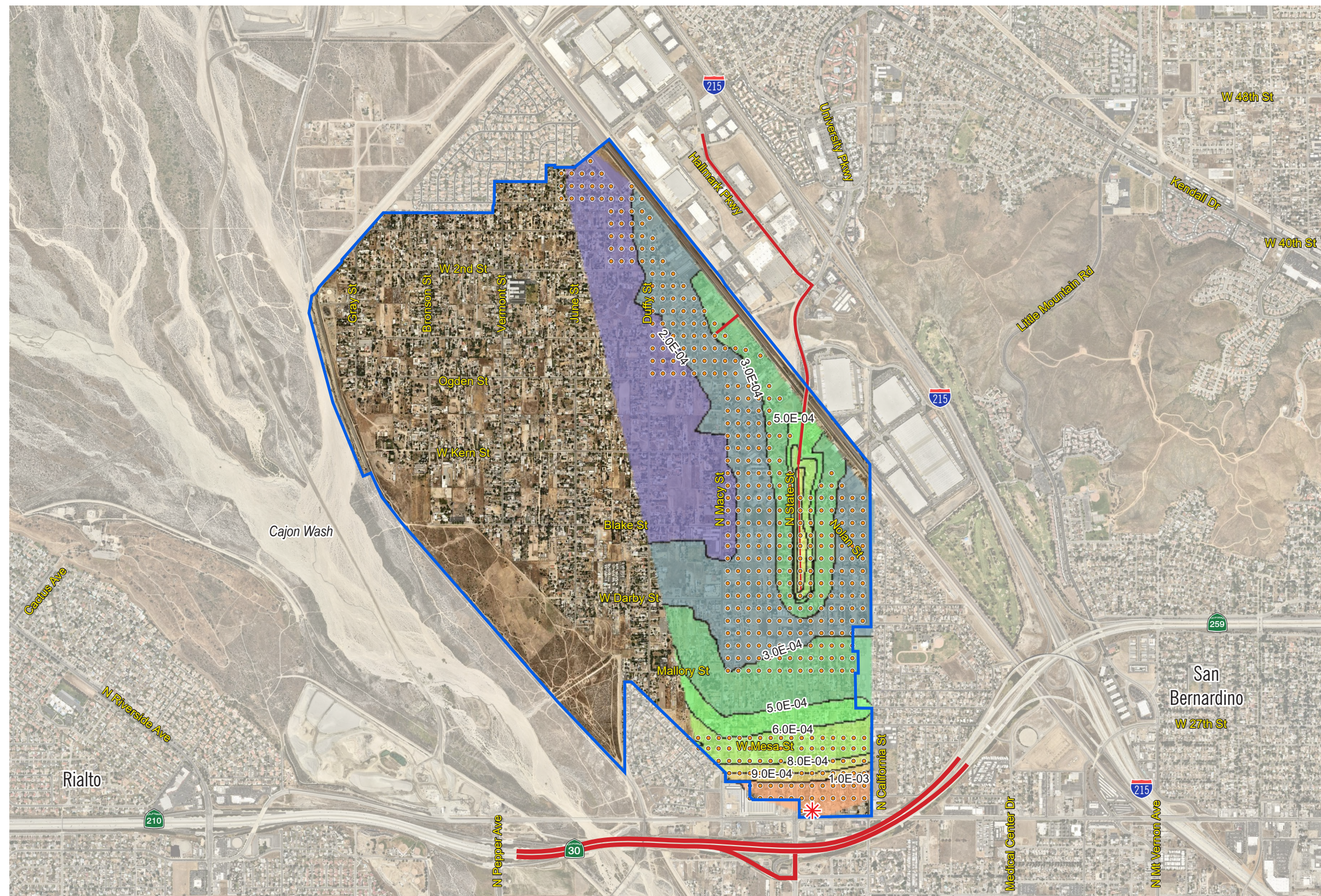
Fig. 3 Increase in Diesel Particulate Matter Concentrations due to CWP Implementation



COUNTYWIDE PLAN

2. Results and Discussion

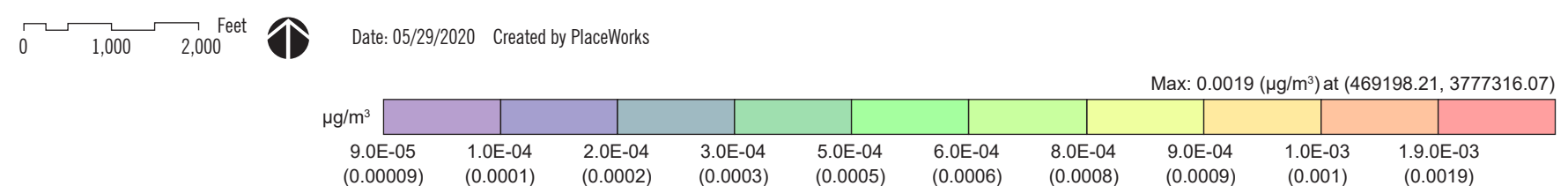
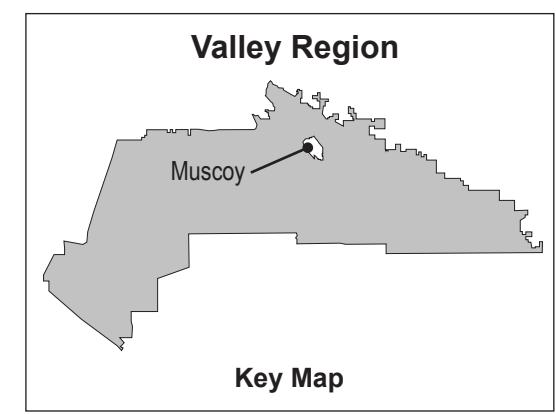
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- Muscoy Community Planning Area
- Roadways Impacted by Project
- Sensitive Receptors
- ✱ Maximum Exposed Receptor (MER)

Note: DPM concentration at MER location results in less than 10 in a million cancer risk.

Note: The map displays data within 1,000 feet of roadway segments where incremental truck trips due to CWP implementation are greater than 100.



Note: The scale depicts the level of diesel particulate matter (DPM) generated by increased truck traffic due to CWP implementation. The highest level of DPM concentration is 0.0019 $\mu\text{g}/\text{m}^3$, which is less than the 10 in a million cancer risk threshold (concentration > 0.015 $\mu\text{g}/\text{m}^3$).

Fig. 4 Increase in Diesel Particulate Matter Concentrations due to CWP Implementation



COUNTYWIDE PLAN

2. Results and Discussion

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2. Results and Discussion

2.2 CUMULATIVE GROWTH EVALUATION

This HRA also presents an evaluation of the cumulative growth in the county, comparing the change in truck traffic due to CWP implementation to truck traffic changes from planned growth in the incorporated county areas and using a roadway network with planned improvements (SCAG 2016).

For the evaluated roadway segments in Bloomington, the average daily truck traffic is compared between the Cumulative No Project and Existing No Project scenarios in Table 6, *Cumulative Increase in Average Daily Traffic, Bloomington*. As shown in Table 6, six of the evaluated roadway segments showed a net decrease in truck traffic along I-10 Eastbound and Slover Avenue, east of Cedar Avenue. For the evaluated roadway segments in Bloomington, the overall increase in traffic due to cumulative growth in the incorporated county areas and roadway network improvements is 2,723 trucks per day (not counting segments where traffic decreased). This increase in truck traffic is less than the increase due to CWP implementation in comparison to the Existing No Project scenario (3,479 trucks per day, Table 2). Therefore, in Bloomington the contribution of truck traffic from CWP implementation is higher than the contribution of truck traffic from cumulative growth in the surrounding areas.

Table 6 Cumulative Increase in Average Daily Traffic, Bloomington

#	Roadway	Segment	Existing No Project 2020 Average Daily Traffic (trucks/day)	Cumulative No Project 2040 Average Daily Traffic (trucks/day)	Change in Average Daily Traffic (trucks/day) ¹	CWP Implementation 2040 Average Daily Traffic (trucks/day)	Cumulative with Project 2040 Average Daily Traffic (trucks/day) ²
1	Valley Boulevard	EO Cedar Ave	59	245	186	23	268
2	I-10 Westbound	EO Alder Ave	9,927	10,383	456	118	10,501
3	I-10 Westbound	Cedar Ave underpass	9,307	9,889	582	118	10,007
4	I-10 Westbound	WO Cactus Ave	9,560	10,126	566	128	10,254
5	I-10 Eastbound	EO Alder Ave	11,253	8,886	-2,367	155	9,041
6	I-10 Eastbound	Cedar Ave underpass	10,463	8,274	-2,189	141	8,415
7	Slover Avenue	EO Alder Ave	521	751	230	29	780
8	Slover Avenue	WO Locust Ave	511	711	200	5	716
10	Slover Avenue	EO Locust Ave	729	1,039	310	-25	1,014
9	Slover Avenue	WO Spruce Ave	433	274	-159	50	324
11	Slover Avenue	WO Cactus Ave	346	272	-74	55	327
12	Cactus Avenue	NO Santa Ana Ave	149	85	-64	62	147
13	Cactus Avenue	NO Jurupa Ave	203	134	-39	32	166
14	Cactus Avenue	SO Jurupa Ave	71	264	193	23	287

Source: F&P 2020.

Notes: Negative values mean a predicted decrease in the amount of truck traffic in the cumulative growth scenario.

EO = east of; WO = west of; NO = north of; SO = south of

¹ Represents net change in truck traffic due to cumulative growth in incorporated areas (Cumulative No Project trucks/day minus Existing No Project trucks/day).

² Represents trucks/day from CWP implementation added to Cumulative No Projects truck/day (Cumulative with Project scenario).

2. Results and Discussion

For the evaluated roadway segments in Muscoy, the average daily truck traffic is compared between the Cumulative No Project and Existing No Project scenarios in Table 7, *Cumulative Increase in Average Daily Traffic, Muscoy*. Three of the evaluated roadway segments showed a decrease in truck traffic along W 1st Street, SR-210 State Street eastbound offramp, and State Street north of the SR-210 eastbound offramp. For the evaluated roadway segments in Muscoy, the overall increase in traffic due to cumulative growth in the incorporated county areas and roadway network improvements is 10,307 trucks per day (9,918 trucks per day including segments where traffic decreased). This increase in truck traffic is higher than the increase due to CWP implementation in comparison to the Existing No Project scenario (5,008 trucks per day, Table 4). Therefore, in Muscoy the contribution of truck traffic from CWP implementation is less than the contribution of truck traffic from cumulative growth in the surrounding areas.

Table 7 Cumulative Increase in Average Daily Traffic, Muscoy

#	Roadway	Segment	Existing No Project 2020 Average Daily Traffic (trucks/day)	Cumulative No Project 2040 Average Daily Traffic (trucks/day)	Change in Average Daily Traffic (trucks/day) ¹	CWP Implementation 2040 Average Daily Traffic (trucks/day)	Cumulative with Project 2040 Average Daily Traffic (trucks/day) ²
1	W 1st Street	WO Cajon Blvd	54	23	-31	63	86
2	University Pkwy	NO Interchange Dr	348	602	254	6	608
3	University Pkwy	SO Interchange Dr	294	602	308	6	608
4	N State Street	NO Blake St	371	546	175	3	549
5	N State Street	SO Blake St	371	534	163	2	536
6	SR-210 Westbound	EO California St	3,988	5,363	1,375	154	5,517
7	SR-210 Westbound	WO California St	3,908	5,304	1,396	149	5,453
8	SR-210 Westbound	WO Macy St	4,465	5,777	1,312	152	5,929
10	SR-210 Eastbound	WO State St Offramp	5,217	6,637	1,420	142	6,779
9	SR-210 Eastbound	EO State St Offramp	4,745	6,329	1,584	127	6,456
11	SR-210 Eastbound	EO State St Onramp	4,794	6,367	1,573	129	6,496
12	Hallway Parkway	WO University Pkwy	111	858	747	0	858
13	SR-210 State Street Eastbound Offramp	WO State St	471	308	-163	14	322
14	State Street	NO SR-210 Eastbound Offramp	620	425	-195	23	448

Source: F&P 2020.

Notes: Negative values mean a predicted decrease in the amount of truck traffic in the cumulative growth scenario.

EO = east of; WO = west of; NO = north of; SO = south of

¹ Represents net change in truck traffic due to cumulative growth in incorporated areas (Cumulative No Project trucks/day minus Existing No Project trucks/day).

² Represents trucks/day from CWP implementation added to Cumulative No Projects truck/day (Cumulative with Project scenario).

2. Results and Discussion

The cancer risks in Table 5 are based on the existing year roadway network and 2012 land use data set for the incorporated portions of the county (SCAG 2012). As shown in Tables 6 and 7, the number of roadway segments whose truck traffic increases by over 100 trucks per day is much lower compared to cumulative growth in the incorporated areas with roadway network improvements (consistent with the 2016 SCAG Regional Transportation Plan / Sustainable Communities Strategy growth through 2040). When comparing the Cumulative with Project to the Cumulative No Project scenarios, only 5 roadway segments in Bloomington (all freeway-related segments) result in an increase of 100 trucks per day due to CWP implementation, compared to 14 segments for the Existing with Project/Existing No Project comparison.

No surface streets would result in an increase in daily trucks over 100 in Bloomington in the Cumulative with Project/Cumulative No Project comparison. A similar reduction in roadway segments with an increase in 100 trucks per day is noted for Muscoy (6 freeway related segments, no surface streets) for the Cumulative with Project/Cumulative No Project comparison. Additionally, the roadway segment net increase in trucks from CWP implementation does not exceed 154 trucks per day for the Cumulative with Project/Cumulative No Project comparison, which is a lesser increase in trucks than for the Existing with Project/Existing No Project comparison (see Tables 2 and 4). Therefore, the incremental cancer risks due to CWP implementation for residents in Bloomington and Muscoy would be reduced for the Cumulative with Project/Cumulative No Project scenario because the number of segments and overall increase in trucks due to CWP implementation are projected to be less for the cumulative growth scenario than the existing setting scenario.

Overall, residents and other sensitive receptors in Bloomington and Muscoy would not be subject to excess cancer risk and noncancer hazards due to implementation of the project, and impacts of the project would be less than significant.

2. Results and Discussion

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3. References

- California Air Resources Board (CARB). 2017. On-Road Emission Factor Model 2017 (EMFAC2017). Version 1.0.2.
- . 2005, April. *Air Quality and Land Use Handbook: A Community Health Perspective*.
- Fehr & Peers (F&P). 2020, April 14. Truck modeling information provided by Paul Herrmann, PE, Associate, to Colin Drukker, Principal of PlaceWorks.
- Goss, Tracy A., and Amy Kroeger. 2003. “White Paper on Potential Control Strategies to Address Cumulative Impacts from Air Pollution.” South Coast Air Quality Management District white paper. Accessed July 17, 2019. <http://www.aqmd.gov/docs/default-source/Agendas/Environmental-Justice/cumulative-impacts-working-group/cumulative-impacts-white-paper.pdf>.
- Office of Environmental Health Hazard Assessment (OEHHA). 2015, February. *Air Toxics Hot Spots Program Guidance Manual for the Preparation of Health Risk Assessments*.
- South Coast Air Quality Management District (South Coast AQMD). 2019, September 6. Community Emissions Reduction Plan (CERP), San Bernardino, Muscoy Community.
- . 2018. MATES IV Feature, GIS Open Data Portal. Accessed May 28, 2020. <http://data-scaqmd-online.opendata.arcgis.com/datasets/54f811534d974b09898d987cb7a4b7cf>.
- . 2015. Final Report Multiple Air Toxics Exposure Study in the South Coast Air Basin (MATES IV). <https://www.aqmd.gov/home/air-quality/air-quality-studies/health-studies/mates-iv>.
- . 2011–2013, 2015–2016. Meteorological Data Set for Fontana Meteorological Station. Accessed May 4, 2020. <http://www.aqmd.gov/home/air-quality/air-quality-data-studies/meteorological-data/data-for-aermod>.
- . 2003, August. Health Risk Assessment Guidance for Analyzing Cancer Risks from Mobile Source Diesel Idling Emissions for CEQA Air Quality Analysis.
- Southern California Association of Governments’ (SCAG). 2016. Final 2016-2040 Regional Transportation Plan / Sustainable Communities Strategy (RTP/SCS). Adopted April 7, 2016.
- . 2012. 2012 Regional Transportation Plan/ Sustainable Communities Strategy (RTP/SCS). Adopted April 2012.
- US Census Bureau. 2020. “Profile of Selected Housing Characteristics, San Bernardino County, CA.” American Fact Finder database.

3. References

US Environmental Protection Agency (USEPA). 2005. *Guideline on Air Quality Models*. Revised edition. EPA-450/2-78-027R.

Appendix A. Emissions Calculations

Appendices

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Diesel Trucks - CWP Implementation - Truck Trip Increase
Existing with Project compared to Existing No Project Scenarios
2040 Vehicle Emission Factors
Bloomington, CA

Temporal Profile:

hours	days	weeks
24	7	52

No.	Segment	Truck Type ¹	ADT (veh/day) ²	Link Length (m)	Speed (mph) ³	Emission Factor (g/mi) ⁴	Emissions (g/s)	Emissions (g/s)
1	Valley Boulevard	EO Cedar Ave	HHDT 70	594	45	0.0135	4.02E-06	6.01E-06
		MHDT 38				0.0060	9.79E-07	
		LHDT 39				0.0061	1.01E-06	
2	I-10 Westbound	EO Alder Ave	HHDT 190	1,297	55	0.0222	3.93E-05	4.79E-05
		MHDT 144				0.0054	7.31E-06	
		LHDT 13				0.0100	1.22E-06	
3	I-10 Westbound	Cedar Ave Underpass	HHDT 230	1,258	55	0.0222	4.62E-05	5.46E-05
		MHDT 150				0.0054	7.38E-06	
		LHDT 12				0.0100	1.09E-06	
4	I-10 Westbound	WO Cactus Ave	HHDT 212	237	55	0.0222	8.02E-06	9.58E-06
		MHDT 146				0.0054	1.35E-06	
		LHDT 12				0.0100	2.05E-07	
5	I-10 Eastbound	EO Alder Ave	HHDT 196	1,191	55	0.0222	3.72E-05	4.62E-05
		MHDT 127				0.0054	5.92E-06	
		LHDT 36				0.0100	3.09E-06	
6	I-10 Eastbound	Cedar Ave Underpass	HHDT 227	1,610	55	0.0222	5.83E-05	7.01E-05
		MHDT 127				0.0054	8.00E-06	
		LHDT 33				0.0100	3.83E-06	
7	Slover Ave	EO Alder Ave	HHDT 45	249	35	0.0081	6.54E-07	1.45E-06
		MHDT 44				0.0071	5.56E-07	
		LHDT 36				0.0037	2.36E-07	
8	Slover Ave	WO Locust Ave	HHDT 30	541	35	0.0081	9.49E-07	2.66E-06
		MHDT 42				0.0071	1.15E-06	
		LHDT 39				0.0037	5.56E-07	
9	Slover Ave	EO Locust Ave	HHDT 116	381	35	0.0081	2.58E-06	4.77E-06
		MHDT 78				0.0071	1.51E-06	
		LHDT 67				0.0037	6.73E-07	
10	Slover Ave	WO Spuce Ave	HHDT 49	402	35	0.0081	1.15E-06	2.16E-06
		MHDT 40				0.0071	8.18E-07	
		LHDT 18				0.0037	1.91E-07	
11	Slover Ave	WO Cactus Ave	HHDT 104	200	35	0.0081	1.22E-06	1.92E-06
		MHDT 54				0.0071	5.49E-07	
		LHDT 29				0.0037	1.53E-07	
12	Cactus Ave	NO Santa Ana Ave	HHDT 96	800	45	0.0135	7.43E-06	9.87E-06
		MHDT 46				0.0060	1.60E-06	
		LHDT 24				0.0061	8.39E-07	
13	Cactus Ave	NO Jurupa Ave	HHDT 129	845	45	0.0135	1.06E-05	1.41E-05
		MHDT 59				0.0060	2.16E-06	
		LHDT 36				0.0061	1.33E-06	
14	Cactus Ave	SO Jurupa Ave	HHDT 146	823	45	0.0135	1.16E-05	1.70E-05
		MHDT 79				0.0060	2.82E-06	
		LHDT 71				0.0061	2.55E-06	

1. LHDT1 Emission Factors used for light-heavy duty trucks due to higher calculated g/mi for LHDT1 compared to LHDT2 from EMFAC2017.

2. Traffic volumes is the increase in trucks from CWP implementation in unincorporated SB County compared to the existing roadway network and existing land uses in the incorporated SB County and surrounding areas (Fehr & Peers, 2020).

3. Speed for roadway segments taken as speed limits from San Bernardino County Transportation Department, Traffic Division, Resolutions Pursuant to County Code-Title 5, Div 2, dated 6/7/2012. Truck travel speed of 55 mph used for Interstate 10.

4. For DPM, PM10 running emission factors for Diesel LHDT1, MHDT, and HHDT obtained from CARB (EMFAC2017) for 2040.

**Diesel Trucks - Existing
Existing No Project Scenario
2020 Vehicle Emission Factors
Bloomington, CA**

Temporal Profile:

hours	days	weeks
24	7	52

No.	Segment	Truck Type ¹	ADT (veh/day) ²	Link Length (m)	Speed (mph) ³	Emission Factor (g/mi) ⁴	Emissions (g/s)	Emissions (g/s)
1	Valley Boulevard	EO Cedar Ave	HHDT 30	594	45	0.0516	6.61E-06	1.27E-05
		MHDT 13				0.0188	1.04E-06	
		LHDT 16				0.0732	5.00E-06	
2	I-10 Westbound	EO Alder Ave	HHDT 6,481	1,297	55	0.0672	4.06E-03	6.24E-03
		MHDT 1,167				0.0189	2.05E-04	
		LHDT 2,279				0.0928	1.97E-03	
3	I-10 Westbound	Cedar Ave Underpass	HHDT 6,038	1,258	55	0.0672	3.67E-03	5.72E-03
		MHDT 1,041				0.0189	1.78E-04	
		LHDT 2,228				0.0928	1.87E-03	
4	I-10 Westbound	WO Cactus Ave	HHDT 6,173	237	55	0.0672	7.07E-04	1.10E-03
		MHDT 1,113				0.0189	3.58E-05	
		LHDT 2,274				0.0928	3.60E-04	
5	I-10 Eastbound	EO Alder Ave	HHDT 7,036	1,191	55	0.0672	4.05E-03	6.60E-03
		MHDT 1,261				0.0189	2.04E-04	
		LHDT 2,956				0.0928	2.35E-03	
6	I-10 Eastbound	Cedar Ave Underpass	HHDT 6,482	1,610	55	0.0672	5.04E-03	8.39E-03
		MHDT 1,093				0.0189	2.39E-04	
		LHDT 2,888				0.0928	3.10E-03	
7	Slover Ave	EO Alder Ave	HHDT 321	249	35	0.0468	2.69E-05	4.12E-05
		MHDT 123				0.0216	4.75E-06	
		LHDT 77				0.0696	9.58E-06	
8	Slover Ave	WO Locust Ave	HHDT 313	541	35	0.0468	5.70E-05	8.78E-05
		MHDT 122				0.0216	1.03E-05	
		LHDT 76				0.0696	2.06E-05	
9	Slover Ave	EO Locust Ave	HHDT 411	381	35	0.0468	5.27E-05	8.90E-05
		MHDT 185				0.0216	1.10E-05	
		LHDT 133				0.0696	2.53E-05	
10	Slover Ave	WO Spuce Ave	HHDT 236	402	35	0.0468	3.20E-05	5.64E-05
		MHDT 110				0.0216	6.88E-06	
		LHDT 87				0.0696	1.75E-05	
11	Slover Ave	WO Cactus Ave	HHDT 169	200	35	0.0468	1.14E-05	2.23E-05
		MHDT 98				0.0216	3.05E-06	
		LHDT 79				0.0696	7.90E-06	
12	Cactus Ave	NO Santa Ana Ave	HHDT 68	800	45	0.0516	2.02E-05	3.93E-05
		MHDT 48				0.0188	5.18E-06	
		LHDT 33				0.0732	1.39E-05	
13	Cactus Ave	NO Jurupa Ave	HHDT 97	845	45	0.0516	3.05E-05	5.61E-05
		MHDT 65				0.0188	7.42E-06	
		LHDT 41				0.0732	1.82E-05	
14	Cactus Ave	SO Jurupa Ave	HHDT 33	823	45	0.0516	1.01E-05	2.01E-05
		MHDT 20				0.0188	2.22E-06	
		LHDT 18				0.0732	7.79E-06	

1. LHDT1 Emission Factors used for light-heavy duty trucks due to higher calculated g/mi for LHDT1 compared to LHDT2 from EMFAC2017.

2. Traffic volumes is the increase in trucks from CWP implementation in unincorporated SB County compared to the existing roadway network and existing land uses in the incorporated SB County and surrounding areas (Fehr & Peers, 2020).

3. Speed for roadway segments taken as speed limits from San Bernardino County Transportation Department, Traffic Division, Resolutions Pursuant to County Code-Title 5, Div 2, dated 6/7/2012. Truck travel speed of 55 mph used for Interstate 10.

4. For DPM, PM10 running emission factors for Diesel LHDT1, MHDT, and HHDT obtained from CARB (EMFAC2017) for 2020.

Diesel Trucks - CWP Implementation - Truck Trip Increase
Existing with Project compared to Existing No Project Scenarios
2020 Vehicle Emission Factors
Bloomington, CA

Temporal Profile:		hours		days	weeks				
		24		7	52				
No.	Segment	Truck Type ¹	ADT (veh/day) ²	Link Length (m)	Speed (mph) ³	Emission Factor (g/mi) ⁴	Emissions (g/s)	Emissions (g/s)	
Valley Boulevard	EO Cedar Ave	HHDT	70	594	45	0.0516	1.54E-05	3.07E-05	
		MHDT	38			0.0188	3.04E-06		
		LHDT	39			0.0732	1.22E-05		
I-10 Westbound	EO Alder Ave	HHDT	190	1,297	55	0.0672	1.19E-04	1.56E-04	
		MHDT	144			0.0189	2.53E-05		
		LHDT	13			0.0928	1.13E-05		
I-10 Westbound	Cedar Ave Underpass	HHDT	230	1,258	55	0.0672	1.40E-04	1.76E-04	
		MHDT	150			0.0189	2.56E-05		
		LHDT	12			0.0928	1.01E-05		
I-10 Westbound	WO Cactus Ave	HHDT	212	237	55	0.0672	2.43E-05	3.09E-05	
		MHDT	146			0.0189	4.69E-06		
		LHDT	12			0.0928	1.90E-06		
I-10 Eastbound	EO Alder Ave	HHDT	196	1,191	55	0.0672	1.13E-04	1.62E-04	
		MHDT	127			0.0189	2.05E-05		
		LHDT	36			0.0928	2.86E-05		
I-10 Eastbound	Cedar Ave Underpass	HHDT	227	1,610	55	0.0672	1.77E-04	2.40E-04	
		MHDT	127			0.0189	2.77E-05		
		LHDT	33			0.0928	3.55E-05		
Slover Ave	EO Alder Ave	HHDT	45	249	35	0.0468	3.77E-06	9.95E-06	
		MHDT	44			0.0216	1.70E-06		
		LHDT	36			0.0696	4.48E-06		
Slover Ave	WO Locust Ave	HHDT	30	541	35	0.0468	5.46E-06	1.95E-05	
		MHDT	42			0.0216	3.53E-06		
		LHDT	39			0.0696	1.06E-05		
Slover Ave	EO Locust Ave	HHDT	116	381	35	0.0468	1.49E-05	3.23E-05	
		MHDT	78			0.0216	4.62E-06		
		LHDT	67			0.0696	1.28E-05		
Slover Ave	WO Spuce Ave	HHDT	49	402	35	0.0468	6.64E-06	1.28E-05	
		MHDT	40			0.0216	2.50E-06		
		LHDT	18			0.0696	3.62E-06		
Slover Ave	WO Cactus Ave	HHDT	104	200	35	0.0468	7.00E-06	1.16E-05	
		MHDT	54			0.0216	1.68E-06		
		LHDT	29			0.0696	2.90E-06		
Cactus Ave	NO Santa Ana Ave	HHDT	96	800	45	0.0516	2.85E-05	4.36E-05	
		MHDT	46			0.0188	4.96E-06		
		LHDT	24			0.0732	1.01E-05		
Cactus Ave	NO Jurupa Ave	HHDT	129	845	45	0.0516	4.05E-05	6.32E-05	
		MHDT	59			0.0188	6.73E-06		
		LHDT	36			0.0732	1.60E-05		
Cactus Ave	SO Jurupa Ave	HHDT	146	823	45	0.0516	4.46E-05	8.41E-05	
		MHDT	79			0.0188	8.77E-06		
		LHDT	71			0.0732	3.07E-05		

1. LHDT1 Emission Factors used for light-heavy duty trucks due to higher calculated g/mi for LHDT1 compared to LHDT2 from EMFAC2017.

2. Traffic volumes is the increase in trucks from CWP implementation in unincorporated SB County compared to the existing roadway network and existing land uses in the incorporated SB County and surrounding areas (Fehr & Peers, 2020).

3. Speed for roadway segments taken as speed limits from San Bernardino County Transportation Department, Traffic Division, Resolutions Pursuant to County Code-Title 5, Div 2, dated 6/7/2012. Truck travel speed of 55 mph used for Interstate 10.

4. For DPM, PM10 running emission factors for Diesel LHDT1, MHDT, and HHDT obtained from CARB (EMFAC2017) for 2020.

Diesel Trucks - CWP Implementation - Truck Trip Increase
Existing with Project compared to Existing No Project Scenarios
2040 Vehicle Emission Factors
Muscoy, CA

Temporal Profile:			hours	days	weeks				
			24	7	52				
	Segment	Truck Type ¹	ADT (veh/day) ²	Link Length (m)	Speed (mph) ³	Emission Factor (g/mi) ⁴	Emissions (g/s)	Emissions (g/s)	
W 1st Street	WO Cajon Blvd	HHDT	92	127	35	0.0081	6.86E-07	9.74E-07	
		MHDT	31			0.0071	2.01E-07		
		LHDT	26			0.0037	8.74E-08		
University Parkway	NO Interchange Dr	HHDT	170	389	45	0.0135	6.40E-06	8.01E-06	
		MHDT	57			0.0060	9.62E-07		
		LHDT	38			0.0061	6.46E-07		
University Parkway	SO Interchange Dr	HHDT	162	642	45	0.0135	1.01E-05	1.19E-05	
		MHDT	47			0.0060	1.31E-06		
		LHDT	17			0.0061	4.77E-07		
N State St	NO Blake St	HHDT	122	299	35	0.0081	2.14E-06	2.84E-06	
		MHDT	39			0.0071	5.93E-07		
		LHDT	14			0.0037	1.11E-07		
N State St	SO Blake St	HHDT	122	397	35	0.0081	2.83E-06	3.76E-06	
		MHDT	39			0.0071	7.86E-07		
		LHDT	14			0.0037	1.46E-07		
I-210 Westbound	EO California St	HHDT	335	609	55	0.0222	3.25E-05	3.83E-05	
		MHDT	129			0.0054	3.07E-06		
		LHDT	62			0.0100	2.72E-06		
I-210 Westbound	WO California St	HHDT	349	809	55	0.0222	4.50E-05	5.31E-05	
		MHDT	135			0.0054	4.27E-06		
		LHDT	65			0.0100	3.79E-06		
I-210 Westbound	WO Macy St	HHDT	334	1,149	55	0.0222	6.12E-05	7.34E-05	
		MHDT	143			0.0054	6.43E-06		
		LHDT	70			0.0100	5.79E-06		
I-210 Eastbound	WO State St Offramp	HHDT	338	944	55	0.0222	5.09E-05	6.06E-05	
		MHDT	157			0.0054	5.80E-06		
		LHDT	58			0.0100	3.94E-06		
I-210 Eastbound	EO State St Offramp	HHDT	248	814	55	0.0222	3.22E-05	3.88E-05	
		MHDT	121			0.0054	3.85E-06		
		LHDT	46			0.0100	2.70E-06		
I-210 Eastbound	EO State St Onramp	HHDT	241	843	55	0.0222	3.24E-05	3.90E-05	
		MHDT	118			0.0054	3.89E-06		
		LHDT	44			0.0100	2.67E-06		
Hallmark Pkwy	WO University Pkwy	HHDT	474	1,038	50	0.0174	6.15E-05	7.61E-05	
		MHDT	186			0.0057	7.90E-06		
		LHDT	113			0.0079	6.63E-06		
I-210 State St EB Offramp	WO State St	HHDT	90	447	25	0.0062	1.79E-06	2.91E-06	
		MHDT	35			0.0089	1.01E-06		
		LHDT	12			0.0028	1.08E-07		
State St	NO EB Offramp	HHDT	84	118	35	0.0081	5.79E-07	7.50E-07	
		MHDT	26			0.0071	1.56E-07		
		LHDT	5			0.0037	1.55E-08		

1. LHDT1 Emission Factors used for light-heavy duty trucks due to higher calculated g/mi for LHDT1 compared to LHDT2 from EMFAC2017.
2. Traffic volumes is the increase in trucks from CWP implementation in unincorporated SB County compared to the existing roadway network and existing land uses in the incorporated SB County and surrounding areas (Fehr & Peers, 2020).
3. Speed for roadway segments taken as speed limits from San Bernardino County Transportation Department, Traffic Division, Resolutions Pursuant to County Code-Title 5, Div 2, dated 6/7/2012. Truck travel speed of 55 mph used for Interstate 10.
4. For DPM, PM10 running emission factors for Diesel LHDT1, MHDT, and HHDT obtained from CARB (EMFAC2017) for 2020.

**Diesel Trucks - Existing
Existing No Project Scenario
2020 Vehicle Emission Factors
Muscoy, CA**

Temporal Profile:

hours	days	weeks
24	7	52

No.	Segment	Truck Type ¹	ADT (veh/day) ²	Link Length (m)	Speed (mph) ³	Emission Factor (g/mi) ⁴	Emissions (g/s)	Emissions (g/s)
1	W 1st Street	WO Cajon Blvd	HHDT 33	127	35	0.0468	1.42E-06	2.32E-06
		MHDT 10				0.0216	1.98E-07	
		LHDT 11				0.0696	7.01E-07	
2	University Parkway	NO Interchange Dr	HHDT 186	389	45	0.0516	2.69E-05	4.86E-05
		MHDT 75				0.0188	3.94E-06	
		LHDT 87				0.0732	1.78E-05	
3	University Parkway	SO Interchange Dr	HHDT 190	642	45	0.0516	4.53E-05	6.67E-05
		MHDT 55				0.0188	4.77E-06	
		LHDT 49				0.0732	1.66E-05	
4	N State St	NO Blake St	HHDT 248	299	35	0.0468	2.50E-05	3.65E-05
		MHDT 67				0.0216	3.12E-06	
		LHDT 56				0.0696	8.39E-06	
5	N State St	SO Blake St	HHDT 248	397	35	0.0468	3.31E-05	4.84E-05
		MHDT 67				0.0216	4.13E-06	
		LHDT 56				0.0696	1.11E-05	
6	I-210 Westbound	EO California St	HHDT 2,400	609	55	0.0672	7.06E-04	1.20E-03
		MHDT 467				0.0189	3.86E-05	
		LHDT 1,121				0.0928	4.56E-04	
7	I-210 Westbound	WO California St	HHDT 2,362	809	55	0.0672	9.24E-04	1.57E-03
		MHDT 446				0.0189	4.89E-05	
		LHDT 1,100				0.0928	5.94E-04	
8	I-210 Westbound	WO Macy St	HHDT 2,774	1,149	55	0.0672	1.54E-03	2.51E-03
		MHDT 535				0.0189	8.34E-05	
		LHDT 1,156				0.0928	8.87E-04	
9	I-210 Eastbound	WO State St Offramp	HHDT 3,214	944	55	0.0672	1.47E-03	2.43E-03
		MHDT 586				0.0189	7.50E-05	
		LHDT 1,417				0.0928	8.93E-04	
10	I-210 Eastbound	WO State St Onramp	HHDT 2,872	814	55	0.0672	1.13E-03	1.93E-03
		MHDT 505				0.0189	5.57E-05	
		LHDT 1,368				0.0928	7.43E-04	
11	I-210 Eastbound	EO State St Onramp	HHDT 2,893	843	55	0.0672	1.18E-03	2.01E-03
		MHDT 520				0.0189	5.94E-05	
		LHDT 1,381				0.0928	7.77E-04	
12	Hallmark Pkwy	WO University Pkwy	HHDT 61	1,038	50	0.0581	2.64E-05	4.50E-05
		MHDT 25				0.0185	3.44E-06	
		LHDT 25				0.0810	1.51E-05	
13	I-210 State St EB Offramp	WO State St	HHDT 341	447	25	0.0528	5.79E-05	7.84E-05
		MHDT 81				0.0289	7.54E-06	
		LHDT 49				0.0821	1.29E-05	
14	State St	NO EB Offramp	HHDT 422	118	35	0.0468	1.67E-05	2.39E-05
		MHDT 112				0.0216	2.05E-06	
		LHDT 86				0.0696	5.07E-06	

1. LHDT1 Emission Factors used for light-heavy duty trucks due to higher calculated g/mi for LHDT1 compared to LHDT2 from EMFAC2017.

2. Traffic volumes is the increase in trucks from CWP implementation in unincorporated SB County compared to the existing roadway network and existing land uses in the incorporated SB County and surrounding areas (Fehr & Peers, 2020).

3. Speed for roadway segments taken as speed limits from San Bernardino County Transportation Department, Traffic Division, Resolutions Pursuant to County Code-Title 5, Div 2, dated 6/7/2012. Truck travel speed of 55 mph used for Interstate 10.

4. For DPM, PM10 running emission factors for Diesel LHDT1, MHDT, and HHDT obtained from CARB (EMFAC2017) for 2020.

Diesel Trucks - CWP Implementation - Truck Trip Increase
Existing with Project compared to Existing No Project Scenarios
2020 Vehicle Emission Factors
Muscoy, CA

Temporal Profile:	hours	days	weeks
	24	7	52

No.	Segment	Truck Type ¹	ADT (veh/day) ²	Link Length (m)	Speed (mph) ³	Emission Factor (g/mi) ⁴	Emissions (g/s)	Emissions (g/s)
1	W 1st Street	WO Cajon Blvd	HHDT	127	35	0.0468	3.95E-06	6.22E-06
		MHDT	31			0.0216	6.14E-07	
		LHDT	26			0.0696	1.66E-06	
2	University Parkway	NO Interchange Dr	HHDT	389	45	0.0516	2.46E-05	3.53E-05
		MHDT	57			0.0188	2.99E-06	
		LHDT	38			0.0732	7.78E-06	
3	University Parkway	SO Interchange Dr	HHDT	642	45	0.0516	3.86E-05	4.85E-05
		MHDT	47			0.0188	4.08E-06	
		LHDT	17			0.0732	5.75E-06	
4	N State St	NO Blake St	HHDT	299	35	0.0468	1.23E-05	1.62E-05
		MHDT	39			0.0216	1.81E-06	
		LHDT	14			0.0696	2.10E-06	
5	N State St	SO Blake St	HHDT	397	35	0.0468	1.63E-05	2.15E-05
		MHDT	39			0.0216	2.40E-06	
		LHDT	14			0.0696	2.78E-06	
6	I-210 Westbound	EO California St	HHDT	609	55	0.0672	9.86E-05	1.34E-04
		MHDT	129			0.0189	1.07E-05	
		LHDT	62			0.0928	2.52E-05	
7	I-210 Westbound	WO California St	HHDT	809	55	0.0672	1.36E-04	1.86E-04
		MHDT	135			0.0189	1.48E-05	
		LHDT	65			0.0928	3.51E-05	
8	I-210 Westbound	WO Macy St	HHDT	1,149	55	0.0672	1.85E-04	2.61E-04
		MHDT	143			0.0189	2.23E-05	
		LHDT	70			0.0928	5.37E-05	
9	I-210 Eastbound	WO State St Offramp	HHDT	944	55	0.0672	1.54E-04	2.11E-04
		MHDT	157			0.0189	2.01E-05	
		LHDT	58			0.0928	3.65E-05	
10	I-210 Eastbound	WO State St Onramp	HHDT	814	55	0.0672	9.76E-05	1.36E-04
		MHDT	121			0.0189	1.34E-05	
		LHDT	46			0.0928	2.50E-05	
11	I-210 Eastbound	EO State St Onramp	HHDT	843	55	0.0672	9.82E-05	1.36E-04
		MHDT	118			0.0189	1.35E-05	
		LHDT	44			0.0928	2.48E-05	
12	Hallmark Pkwy	WO University Pkwy	HHDT	1,038	50	0.0581	2.05E-04	2.99E-04
		MHDT	186			0.0185	2.56E-05	
		LHDT	113			0.0810	6.83E-05	
13	I-210 State St EB Offramp	WO State St	HHDT	447	25	0.0528	1.53E-05	2.17E-05
		MHDT	35			0.0289	3.26E-06	
		LHDT	12			0.0821	3.17E-06	
14	State St	NO EB Offramp	HHDT	118	35	0.0468	3.33E-06	4.10E-06
		MHDT	26			0.0216	4.76E-07	
		LHDT	5			0.0696	2.95E-07	

1. LHDT1 Emission Factors used for light-heavy duty trucks due to higher calculated g/mi for LHDT1 compared to LHDT2 from EMFAC2017.

2. Traffic volumes is the increase in trucks from CWP implementation in unincorporated SB County compared to the existing roadway network and existing land uses in the incorporated SB County and surrounding areas (Fehr & Peers, 2020).

3. Speed for roadway segments taken as speed limits from San Bernardino County Transportation Department, Traffic Division, Resolutions Pursuant to County Code-Title 5, Div 2, dated 6/7/2012. Truck travel speed of 55 mph used for Interstate 10.

4. For DPM, PM10 running emission factors for Diesel LHDT1, MHDT, and HHDT obtained from CARB (EMFAC2017) for 2020.

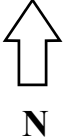
HHDT 20	2020 Annual	San Bernardino (SC)	HHDT	Dsl	66	54	RUNEX	20	PM10	0.06198157
HHDT 25	2020 Annual	San Bernardino (SC)	HHDT	Dsl	66	54	RUNEX	25	PM10	0.05281009
HHDT 30	2020 Annual	San Bernardino (SC)	HHDT	Dsl	66	54	RUNEX	30	PM10	0.04846632
HHDT 35	2020 Annual	San Bernardino (SC)	HHDT	Dsl	66	54	RUNEX	35	PM10	0.04683948
HHDT 40	2020 Annual	San Bernardino (SC)	HHDT	Dsl	66	54	RUNEX	40	PM10	0.04789892
HHDT 45	2020 Annual	San Bernardino (SC)	HHDT	Dsl	66	54	RUNEX	45	PM10	0.05163795
HHDT 50	2020 Annual	San Bernardino (SC)	HHDT	Dsl	66	54	RUNEX	50	PM10	0.0580676
HHDT 55	2020 Annual	San Bernardino (SC)	HHDT	Dsl	66	54	RUNEX	55	PM10	0.06721352
LHDT 20	2020 Annual	San Bernardino (SC)	LHDT1	Dsl	66	54	RUNEX	20	PM10	0.03565839
LHDT 25	2020 Annual	San Bernardino (SC)	LHDT1	Dsl	66	54	RUNEX	25	PM10	0.02894148
LHDT 30	2020 Annual	San Bernardino (SC)	LHDT1	Dsl	66	54	RUNEX	30	PM10	0.02452581
LHDT 35	2020 Annual	San Bernardino (SC)	LHDT1	Dsl	66	54	RUNEX	35	PM10	0.02161835
LHDT 40	2020 Annual	San Bernardino (SC)	LHDT1	Dsl	66	54	RUNEX	40	PM10	0.01978021
LHDT 45	2020 Annual	San Bernardino (SC)	LHDT1	Dsl	66	54	RUNEX	45	PM10	0.01876774
LHDT 50	2020 Annual	San Bernardino (SC)	LHDT1	Dsl	66	54	RUNEX	50	PM10	0.01846606
LHDT 55	2020 Annual	San Bernardino (SC)	LHDT1	Dsl	66	54	RUNEX	55	PM10	0.01886048
MHDT 20	2020 Annual	San Bernardino (SC)	MHDT	Dsl	66	54	RUNEX	20	PM10	0.09840002
MHDT 25	2020 Annual	San Bernardino (SC)	MHDT	Dsl	66	54	RUNEX	25	PM10	0.08206268
MHDT 30	2020 Annual	San Bernardino (SC)	MHDT	Dsl	66	54	RUNEX	30	PM10	0.07380782
MHDT 35	2020 Annual	San Bernardino (SC)	MHDT	Dsl	66	54	RUNEX	35	PM10	0.06958727
MHDT 40	2020 Annual	San Bernardino (SC)	MHDT	Dsl	66	54	RUNEX	40	PM10	0.06938357
MHDT 45	2020 Annual	San Bernardino (SC)	MHDT	Dsl	66	54	RUNEX	45	PM10	0.07318983
MHDT 50	2020 Annual	San Bernardino (SC)	MHDT	Dsl	66	54	RUNEX	50	PM10	0.08100641
MHDT 55	2020 Annual	San Bernardino (SC)	MHDT	Dsl	66	54	RUNEX	55	PM10	0.09283927

HHDT 20	2040 Annual	San Bernardino (SC)	HHDT	Dsl	66	54	RUNEX	20	PM10	0.00649743
HHDT 25	2040 Annual	San Bernardino (SC)	HHDT	Dsl	66	54	RUNEX	25	PM10	0.00619265
HHDT 30	2040 Annual	San Bernardino (SC)	HHDT	Dsl	66	54	RUNEX	30	PM10	0.00673919
HHDT 35	2040 Annual	San Bernardino (SC)	HHDT	Dsl	66	54	RUNEX	35	PM10	0.00813335
HHDT 40	2040 Annual	San Bernardino (SC)	HHDT	Dsl	66	54	RUNEX	40	PM10	0.01037508
HHDT 45	2040 Annual	San Bernardino (SC)	HHDT	Dsl	66	54	RUNEX	45	PM10	0.01346437
HHDT 50	2040 Annual	San Bernardino (SC)	HHDT	Dsl	66	54	RUNEX	50	PM10	0.01740125
HHDT 55	2040 Annual	San Bernardino (SC)	HHDT	Dsl	66	54	RUNEX	55	PM10	0.02218576
LHDT 20	2040 Annual	San Bernardino (SC)	LHDT1	Dsl	66	54	RUNEX	20	PM10	0.01051962
LHDT 25	2040 Annual	San Bernardino (SC)	LHDT1	Dsl	66	54	RUNEX	25	PM10	0.00892889
LHDT 30	2040 Annual	San Bernardino (SC)	LHDT1	Dsl	66	54	RUNEX	30	PM10	0.00785024
LHDT 35	2040 Annual	San Bernardino (SC)	LHDT1	Dsl	66	54	RUNEX	35	PM10	0.00706763
LHDT 40	2040 Annual	San Bernardino (SC)	LHDT1	Dsl	66	54	RUNEX	40	PM10	0.00648077
LHDT 45	2040 Annual	San Bernardino (SC)	LHDT1	Dsl	66	54	RUNEX	45	PM10	0.00603321
LHDT 50	2040 Annual	San Bernardino (SC)	LHDT1	Dsl	66	54	RUNEX	50	PM10	0.00569232
LHDT 55	2040 Annual	San Bernardino (SC)	LHDT1	Dsl	66	54	RUNEX	55	PM10	0.0054402
MHDT 20	2040 Annual	San Bernardino (SC)	MHDT	Dsl	66	54	RUNEX	20	PM10	0.00292405
MHDT 25	2040 Annual	San Bernardino (SC)	MHDT	Dsl	66	54	RUNEX	25	PM10	0.00278877
MHDT 30	2040 Annual	San Bernardino (SC)	MHDT	Dsl	66	54	RUNEX	30	PM10	0.00303729
MHDT 35	2040 Annual	San Bernardino (SC)	MHDT	Dsl	66	54	RUNEX	35	PM10	0.00366854
MHDT 40	2040 Annual	San Bernardino (SC)	MHDT	Dsl	66	54	RUNEX	40	PM10	0.0046825
MHDT 45	2040 Annual	San Bernardino (SC)	MHDT	Dsl	66	54	RUNEX	45	PM10	0.00607917
MHDT 50	2040 Annual	San Bernardino (SC)	MHDT	Dsl	66	54	RUNEX	50	PM10	0.00785855
MHDT 55	2040 Annual	San Bernardino (SC)	MHDT	Dsl	66	54	RUNEX	55	PM10	0.01002063

Appendix B. Model Setup

Appendices

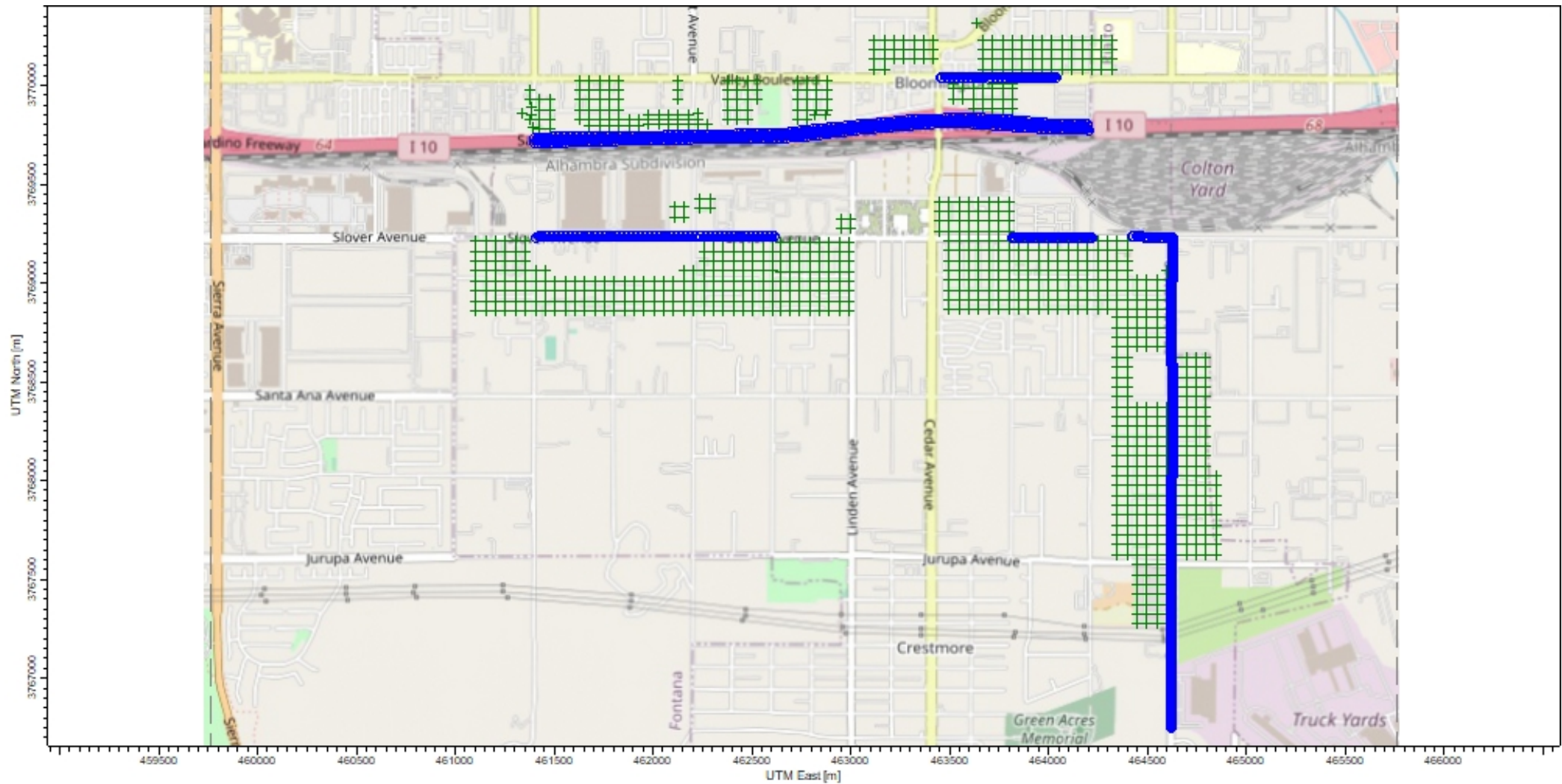
This page intentionally left blank.

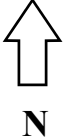


Bloomington Model Setup

Roadway Segments with change in ADT > 100 trucks per day
Ground-level receptors at residential locations within 1,000 feet of roadways and within Bloomington AB 617 community area.

Roadways modeled as adjacent volume sources

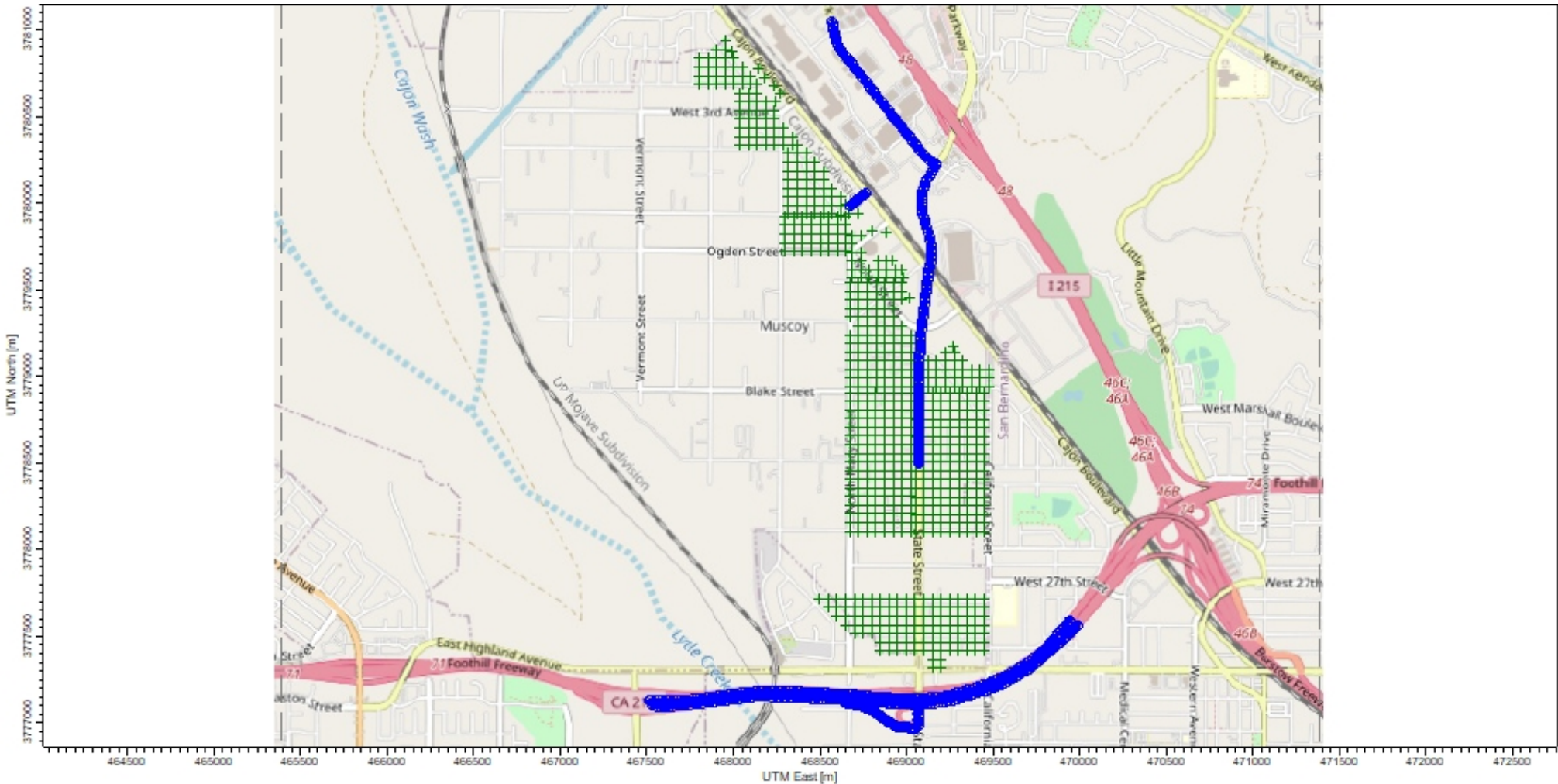




Muscoy Model Setup

Roadway Segments with change in ADT > 100 trucks per day
Ground-level receptors at residential locations within 1,000 feet of roadways and within Muscoy AB 617 community area.

Roadways modeled as adjacent volume sources



Appendix C. Air Dispersion Model Output

Appendices

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Results Summary

CWP Implementation, Bloomington, 2040
(Existing Plus Project - Existing No Project) > 100 trucks/day

Concentration - Source Group: ALL

Averaging Period	Rank	Peak	Units	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.00351	ug/m^3	463618.24	3769882.12	330.27	0.00	335.16	

Results Summary

CWP Implementation, Muscoy, 2040
(Existing Plus Project - Existing No Project) > 100 trucks/day

Concentration - Source Group: ALL

Averaging Period	Rank	Peak	Units	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.00193	ug/m^3	469198.21	3777316.07	385.23	0.00	385.23	

Results Summary

Existing Roadways, Bloomington, 2020
Existing No Project Roadway Segments

Concentration - Source Group: ALL

Averaging Period	Rank	Peak	Units	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.38257	ug/m^3	462277.55	3769804.84	335.81	0.00	335.81	

Results Summary

CWP Implementation, Muscoy
Existing Roadway Network, 2020

Concentration - Source Group: ALL

Averaging Period	Rank	Peak	Units	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.07201	ug/m^3	469198.21	3777316.07	385.23	0.00	385.23	

Results Summary

CWP Implementation, Bloomington, 2020
(Existing Plus Project - Existing No Project) > 100 trucks/day

Concentration - Source Group: ALL

Averaging Period	Rank	Peak	Units	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.01183	ug/m^3	463618.24	3769882.12	330.27	0.00	335.16	

Results Summary

CWP Implementation, Muscoy, 2020
(Existing Plus Project - Existing No Project) > 100 trucks/day

Concentration - Source Group: ALL

Averaging Period	Rank	Peak	Units	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.00687	ug/m^3	469198.21	3777316.07	385.23	0.00	385.23	

Model Output - Bloomington CWP Implementation 2040

```
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 9.9.0
** Lakes Environmental Software Inc.
** Date: 5/22/2020
** File: C:\!AERMOD\SBC25\ExCWP_bloom2040\ExCWP_bloom2040.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
  TITLEONE CWP Implemenation, Bloomington, 2040
  TITLETWO (Existing Plus Project - Existing No Project) > 100 trucks/day
  MODELOPT DFAULT CONC
  AVERTIME PERIOD
  URBANOPT 2035210 San_Bernardino_County
  POLLUTID OTHER
  RUNORNOT RUN
  ERRORFIL ExCWP_bloom2040.err
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = 1
** DESCRSRC ValleyBlvd
** PREFIX
** Length of Side = 24.00
** Configuration = Adjacent
** Emission Rate = 6.01E-06
** Vertical Dimension = 7.00
** SZINIT = 3.26
** Nodes = 2
** 463451.597, 3770043.124, 335.85, 3.50, 11.16
** 464045.081, 3770041.637, 333.50, 3.50, 11.16
** -----
```

Model Output - Bloomington
CWP Implementation 2040

```
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = 2
** DESCRSRC I10 EO Alder
** PREFIX
** Length of Side = 21.00
** Configuration = Adjacent
** Emission Rate = 0.0000479
** Vertical Dimension = 7.00
** SZINIT = 3.26
** Nodes = 5
** 461402.374, 3769736.050, 337.07, 3.50, 9.77
** 461875.883, 3769740.168, 336.23, 3.50, 9.77
** 462207.339, 3769748.403, 335.79, 3.50, 9.77
** 462586.146, 3769756.638, 336.03, 3.50, 9.77
** 462699.376, 3769760.755, 335.86, 3.50, 9.77
** -----
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = 3
** DESCRSRC I-10 Cedar
** PREFIX
** Length of Side = 21.00
** Configuration = Adjacent
** Emission Rate = 0.0000546
** Vertical Dimension = 7.00
** SZINIT = 3.26
** Nodes = 10
** 462713.788, 3769766.931, 335.81, 3.50, 9.77
** 462870.251, 3769783.401, 335.40, 3.50, 9.77
** 463014.363, 3769797.812, 335.09, 3.50, 9.77
** 463193.473, 3769814.282, 333.99, 3.50, 9.77
** 463316.997, 3769826.635, 332.66, 3.50, 9.77
** 463452.873, 3769830.752, 330.91, 3.50, 9.77
** 463541.399, 3769836.928, 329.97, 3.50, 9.77
** 463650.512, 3769832.811, 328.65, 3.50, 9.77
** 463829.621, 3769822.517, 326.22, 3.50, 9.77
** 463967.557, 3769810.165, 325.35, 3.50, 9.77
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = 4
** DESCRSRC I-10 WO Cactus
** PREFIX
** Length of Side = 21.00
** Configuration = Adjacent
** Emission Rate = 9.58E-06
** Vertical Dimension = 7.00
** SZINIT = 3.26
** Nodes = 3
** 463976.350, 3769809.298, 325.35, 3.50, 9.77
** 464072.880, 3769804.149, 325.20, 3.50, 9.77
```

Model Output - Bloomington
CWP Implementation 2040

```
** 464213.170, 3769802.862, 325.04, 3.50, 9.77
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = 5
** DESCRSRC I-10 EB WO Alder
** PREFIX
** Length of Side = 21.00
** Configuration = Adjacent
** Emission Rate = 0.0000462
** Vertical Dimension = 7.00
** SZINIT = 3.26
** Nodes = 4
** 461403.193, 3769707.990, 336.65, 3.50, 9.77
** 461813.480, 3769720.745, 336.03, 3.50, 9.77
** 462213.137, 3769729.249, 335.51, 3.50, 9.77
** 462593.662, 3769733.500, 336.09, 3.50, 9.77
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = 6
** DESCRSRC I-10 EB Cedar
** PREFIX
** Length of Side = 21.00
** Configuration = Adjacent
** Emission Rate = 0.0000701
** Vertical Dimension = 7.00
** SZINIT = 3.26
** Nodes = 11
** 462604.291, 3769735.626, 336.06, 3.50, 9.77
** 462742.471, 3769737.752, 335.91, 3.50, 9.77
** 462942.299, 3769765.388, 335.24, 3.50, 9.77
** 463137.877, 3769784.521, 334.56, 3.50, 9.77
** 463324.950, 3769801.527, 332.32, 3.50, 9.77
** 463458.878, 3769810.031, 330.74, 3.50, 9.77
** 463607.687, 3769807.905, 328.88, 3.50, 9.77
** 463826.648, 3769790.898, 326.25, 3.50, 9.77
** 463981.834, 3769782.395, 325.48, 3.50, 9.77
** 464113.636, 3769778.143, 325.45, 3.50, 9.77
** 464209.299, 3769776.017, 325.36, 3.50, 9.77
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = 7
** DESCRSRC Slover EO Alder
** PREFIX
** Length of Side = 23.00
** Configuration = Adjacent
** Emission Rate = 1.45E-06
** Vertical Dimension = 7.00
** SZINIT = 3.26
** Nodes = 2
** 461409.364, 3769233.004, 330.29, 3.50, 10.70
** 461657.977, 3769236.341, 329.56, 3.50, 10.70
```

Model Output - Bloomington
CWP Implementation 2040

```
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = 8
** DESCRSRC Slover WO Locust
** PREFIX
** Length of Side = 23.00
** Configuration = Adjacent
** Emission Rate = 2.66E-06
** Vertical Dimension = 7.00
** SZINIT = 3.26
** Nodes = 3
** 461671.326, 3769234.673, 329.52, 3.50, 10.70
** 462008.372, 3769236.341, 328.62, 3.50, 10.70
** 462211.935, 3769234.673, 328.06, 3.50, 10.70
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = 9
** DESCRSRC Slover EO Locust
** PREFIX
** Length of Side = 23.00
** Configuration = Adjacent
** Emission Rate = 4.77E-06
** Vertical Dimension = 7.00
** SZINIT = 3.26
** Nodes = 2
** 462233.196, 3769233.980, 328.03, 3.50, 10.70
** 462613.878, 3769233.980, 328.82, 3.50, 10.70
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = 10
** DESCRSRC Slover WO Spruce
** PREFIX
** Length of Side = 11.00
** Configuration = Adjacent
** Emission Rate = 2.16E-06
** Vertical Dimension = 7.00
** SZINIT = 3.26
** Nodes = 2
** 463820.566, 3769231.585, 323.15, 3.50, 5.12
** 464222.796, 3769230.388, 320.42, 3.50, 5.12
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = 11
** DESCRSRC Slover WO Cactus
** PREFIX
** Length of Side = 13.50
** Configuration = Adjacent
** Emission Rate = 1.92E-06
** Vertical Dimension = 7.00
** SZINIT = 3.26
** Nodes = 2
```

Model Output - Bloomington
CWP Implementation 2040

```
** 464425.107, 3769233.980, 319.82, 3.50, 6.28
** 464625.025, 3769230.388, 318.20, 3.50, 6.28
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = 12
** DESCRSRC Cactus NO Santa Ana
** PREFIX
** Length of Side = 7.50
** Configuration = Adjacent
** Emission Rate = 9.87E-06
** Vertical Dimension = 7.00
** SZINIT = 3.26
** Nodes = 6
** 464626.222, 3769225.600, 318.12, 3.50, 3.49
** 464625.025, 3769020.894, 315.21, 3.50, 3.49
** 464619.039, 3768996.951, 314.81, 3.50, 3.49
** 464620.237, 3768631.833, 309.97, 0.00, 3.49
** 464625.025, 3768585.145, 309.22, 0.00, 3.49
** 464625.025, 3768427.126, 307.01, 0.00, 3.49
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = 13
** DESCRSRC Cactus NO Jurupa
** PREFIX
** Length of Side = 7.50
** Configuration = Adjacent
** Emission Rate = 0.0000141
** Vertical Dimension = 7.00
** SZINIT = 3.26
** Nodes = 4
** 464627.213, 3768420.964, 306.96, 3.50, 3.49
** 464625.728, 3768030.426, 302.35, 3.50, 3.49
** 464621.273, 3767999.242, 301.95, 3.50, 3.49
** 464624.243, 3767576.035, 296.20, 0.00, 3.49
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = 14
** DESCRSRC Cactus SO Jurupa
** PREFIX
** Length of Side = 7.50
** Configuration = Adjacent
** Emission Rate = 0.000017
** Vertical Dimension = 7.00
** SZINIT = 3.26
** Nodes = 4
** 464621.273, 3767573.066, 296.17, 3.50, 3.49
** 464621.273, 3767241.925, 291.71, 3.50, 3.49
** 464619.788, 3767014.730, 293.81, 3.50, 3.49
** 464621.273, 3766750.411, 291.51, 0.00, 3.49
```

Model Output - Bloomington CWP Implementation 2040

```
URBANSRC ALL
SRCGROUP ALL
SO FINISHED
*****
** AERMOD Receptor Pathway
*****
RE STARTING
  INCLUDED ExCWP_bloom2040.rou
RE FINISHED
*****
** AERMOD Meteorology Pathway
*****
ME STARTING
  SURFFILE "..\met data\FONT_v9.SFC"
  PROFFILE "..\met data\FONT_v9.PFL"
  SURFDATA 3102 2011
  UAIRDATA 3190 2011
  SITEDATA 99999 2011
  PROFBASE 367.0 METERS
ME FINISHED
**
*****
** AERMOD Output Pathway
*****
**
**
OU STARTING
** Auto-Generated Plotfiles
  PLOTFILE PERIOD ALL EXCWP_BLOOM2040.AD\PE00GALL.PLT 31
  SUMMFILE ExCWP_bloom2040.sum
OU FINISHED
```

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

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

```
A Total of          0 Fatal Error Message(s)
A Total of          2 Warning Message(s)
A Total of          0 Informational Message(s)
```

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

```
***** WARNING MESSAGES *****
ME W186    1785      MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
ME W187    1785      MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET
```

0.50

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

Model Output - Bloomington CWP Implementation 2040

*** AERMOD - VERSION 19191 *** *** CWP Implemenation, Bloomington, 2040 *** 05/22/20
*** AERMET - VERSION 16216 *** *** (Existing Plus Project - Existing No Project) > 100 trucks/day *** 11:03:51
PAGE 1

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** 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 726 Source(s),

for Total of 1 Urban Area(s):

Urban Population = 2035210.0 ; 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:

ADJ_U* - Use ADJ_U* option for SBL in AERMET

TEMP_Sub - Meteorological data includes TEMP substitutions

**Model Assumes No FLAGPOLE Receptor Heights.

**The User Specified a Pollutant Type of: OTHER

**Model Calculates PERIOD Averages Only

**This Run Includes: 726 Source(s); 1 Source Group(s); and 923 Receptor(s)

with: 0 POINT(s), including
 0 POINTCAP(s) and 0 POINTHOR(s)

and: 726 VOLUME source(s)

and: 0 AREA type source(s)

and: 0 LINE source(s)

and: 0 RLINE/RLINEXT source(s)

and: 0 OPENPIT source(s)

and: 0 BUOYANT LINE source(s) with 0 line(s)

Model Output - Bloomington CWP Implementation 2040

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

**The AERMET Input Meteorological Data Version Date: 16216

**Output Options Selected:

Model Outputs Tables of PERIOD 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) = 367.00 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0
Emission Units = GRAMS/SEC ; Emission Rate Unit Factor = 0.10000E+07
Output Units = MICROGRAMS/M**3

**Approximate Storage Requirements of Model = 3.9 MB of RAM.

**Input Runstream File: aermod.inp

**Output Print File: aermod.out

**Detailed Error/Message File: ExCWP_bloom2040.err

**File for Summary of Results: ExCWP_bloom2040.sum

Model Output - Bloomington CWP Implementation 2040

*** AERMOD - VERSION 19191 *** *** CWP Implemenation, Bloomington, 2040 *** 05/22/20
 *** AERMET - VERSION 16216 *** *** (Existing Plus Project - Existing No Project) > 100 trucks/day *** 11:03:51
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U* PAGE 2

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0000964	0	0.24040E-06	463463.6	3770043.1	335.8	3.50	11.16	3.26	YES	
L0000965	0	0.24040E-06	463487.6	3770043.0	335.7	3.50	11.16	3.26	YES	
L0000966	0	0.24040E-06	463511.6	3770043.0	335.6	3.50	11.16	3.26	YES	
L0000967	0	0.24040E-06	463535.6	3770042.9	335.5	3.50	11.16	3.26	YES	
L0000968	0	0.24040E-06	463559.6	3770042.9	335.4	3.50	11.16	3.26	YES	
L0000969	0	0.24040E-06	463583.6	3770042.8	335.3	3.50	11.16	3.26	YES	
L0000970	0	0.24040E-06	463607.6	3770042.7	335.2	3.50	11.16	3.26	YES	
L0000971	0	0.24040E-06	463631.6	3770042.7	335.1	3.50	11.16	3.26	YES	
L0000972	0	0.24040E-06	463655.6	3770042.6	335.0	3.50	11.16	3.26	YES	
L0000973	0	0.24040E-06	463679.6	3770042.6	334.9	3.50	11.16	3.26	YES	
L0000974	0	0.24040E-06	463703.6	3770042.5	334.9	3.50	11.16	3.26	YES	
L0000975	0	0.24040E-06	463727.6	3770042.4	334.8	3.50	11.16	3.26	YES	
L0000976	0	0.24040E-06	463751.6	3770042.4	334.7	3.50	11.16	3.26	YES	
L0000977	0	0.24040E-06	463775.6	3770042.3	334.6	3.50	11.16	3.26	YES	
L0000978	0	0.24040E-06	463799.6	3770042.3	334.5	3.50	11.16	3.26	YES	
L0000979	0	0.24040E-06	463823.6	3770042.2	334.4	3.50	11.16	3.26	YES	
L0000980	0	0.24040E-06	463847.6	3770042.1	334.3	3.50	11.16	3.26	YES	
L0000981	0	0.24040E-06	463871.6	3770042.1	334.2	3.50	11.16	3.26	YES	
L0000982	0	0.24040E-06	463895.6	3770042.0	334.1	3.50	11.16	3.26	YES	
L0000983	0	0.24040E-06	463919.6	3770042.0	334.0	3.50	11.16	3.26	YES	
L0000984	0	0.24040E-06	463943.6	3770041.9	333.9	3.50	11.16	3.26	YES	
L0000985	0	0.24040E-06	463967.6	3770041.8	333.8	3.50	11.16	3.26	YES	
L0000986	0	0.24040E-06	463991.6	3770041.8	333.7	3.50	11.16	3.26	YES	
L0000987	0	0.24040E-06	464015.6	3770041.7	333.6	3.50	11.16	3.26	YES	
L0000988	0	0.24040E-06	464039.6	3770041.7	333.5	3.50	11.16	3.26	YES	
L0000989	0	0.77260E-06	461412.9	3769736.1	337.1	3.50	9.77	3.26	YES	
L0000990	0	0.77260E-06	461433.9	3769736.3	337.0	3.50	9.77	3.26	YES	
L0000991	0	0.77260E-06	461454.9	3769736.5	337.0	3.50	9.77	3.26	YES	
L0000992	0	0.77260E-06	461475.9	3769736.7	336.9	3.50	9.77	3.26	YES	
L0000993	0	0.77260E-06	461496.9	3769736.9	336.9	3.50	9.77	3.26	YES	
L0000994	0	0.77260E-06	461517.9	3769737.1	336.9	3.50	9.77	3.26	YES	
L0000995	0	0.77260E-06	461538.9	3769737.2	336.8	3.50	9.77	3.26	YES	
L0000996	0	0.77260E-06	461559.9	3769737.4	336.8	3.50	9.77	3.26	YES	
L0000997	0	0.77260E-06	461580.9	3769737.6	336.8	3.50	9.77	3.26	YES	
L0000998	0	0.77260E-06	461601.9	3769737.8	336.7	3.50	9.77	3.26	YES	
L0000999	0	0.77260E-06	461622.9	3769738.0	336.7	3.50	9.77	3.26	YES	
L0001000	0	0.77260E-06	461643.9	3769738.1	336.6	3.50	9.77	3.26	YES	
L0001001	0	0.77260E-06	461664.9	3769738.3	336.6	3.50	9.77	3.26	YES	

Model Output - Bloomington CWP Implementation 2040

L0001002 0 0.77260E-06 461685.9 3769738.5 336.6 3.50 9.77 3.26 YES
 L0001003 0 0.77260E-06 461706.9 3769738.7 336.5 3.50 9.77 3.26 YES
 *** AERMOD - VERSION 19191 *** *** CWP Implementation, Bloomington, 2040
 *** AERMET - VERSION 16216 *** *** (Existing Plus Project - Existing No Project) > 100 trucks/day

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0001004	0	0.77260E-06	461727.9	3769738.9	336.5	3.50	9.77	3.26	YES	
L0001005	0	0.77260E-06	461748.9	3769739.1	336.5	3.50	9.77	3.26	YES	
L0001006	0	0.77260E-06	461769.9	3769739.2	336.4	3.50	9.77	3.26	YES	
L0001007	0	0.77260E-06	461790.9	3769739.4	336.4	3.50	9.77	3.26	YES	
L0001008	0	0.77260E-06	461811.9	3769739.6	336.3	3.50	9.77	3.26	YES	
L0001009	0	0.77260E-06	461832.9	3769739.8	336.3	3.50	9.77	3.26	YES	
L0001010	0	0.77260E-06	461853.9	3769740.0	336.3	3.50	9.77	3.26	YES	
L0001011	0	0.77260E-06	461874.9	3769740.2	336.2	3.50	9.77	3.26	YES	
L0001012	0	0.77260E-06	461895.8	3769740.7	336.2	3.50	9.77	3.26	YES	
L0001013	0	0.77260E-06	461916.8	3769741.2	336.2	3.50	9.77	3.26	YES	
L0001014	0	0.77260E-06	461937.8	3769741.7	336.2	3.50	9.77	3.26	YES	
L0001015	0	0.77260E-06	461958.8	3769742.2	336.1	3.50	9.77	3.26	YES	
L0001016	0	0.77260E-06	461979.8	3769742.8	336.1	3.50	9.77	3.26	YES	
L0001017	0	0.77260E-06	462000.8	3769743.3	336.1	3.50	9.77	3.26	YES	
L0001018	0	0.77260E-06	462021.8	3769743.8	336.0	3.50	9.77	3.26	YES	
L0001019	0	0.77260E-06	462042.8	3769744.3	336.0	3.50	9.77	3.26	YES	
L0001020	0	0.77260E-06	462063.8	3769744.8	336.0	3.50	9.77	3.26	YES	
L0001021	0	0.77260E-06	462084.8	3769745.4	335.9	3.50	9.77	3.26	YES	
L0001022	0	0.77260E-06	462105.8	3769745.9	335.9	3.50	9.77	3.26	YES	
L0001023	0	0.77260E-06	462126.8	3769746.4	335.9	3.50	9.77	3.26	YES	
L0001024	0	0.77260E-06	462147.8	3769746.9	335.9	3.50	9.77	3.26	YES	
L0001025	0	0.77260E-06	462168.8	3769747.4	335.8	3.50	9.77	3.26	YES	
L0001026	0	0.77260E-06	462189.8	3769748.0	335.8	3.50	9.77	3.26	YES	
L0001027	0	0.77260E-06	462210.8	3769748.5	335.8	3.50	9.77	3.26	YES	
L0001028	0	0.77260E-06	462231.7	3769748.9	335.8	3.50	9.77	3.26	YES	
L0001029	0	0.77260E-06	462252.7	3769749.4	335.8	3.50	9.77	3.26	YES	
L0001030	0	0.77260E-06	462273.7	3769749.8	335.8	3.50	9.77	3.26	YES	
L0001031	0	0.77260E-06	462294.7	3769750.3	335.9	3.50	9.77	3.26	YES	
L0001032	0	0.77260E-06	462315.7	3769750.8	335.9	3.50	9.77	3.26	YES	
L0001033	0	0.77260E-06	462336.7	3769751.2	335.9	3.50	9.77	3.26	YES	
L0001034	0	0.77260E-06	462357.7	3769751.7	335.9	3.50	9.77	3.26	YES	
L0001035	0	0.77260E-06	462378.7	3769752.1	335.9	3.50	9.77	3.26	YES	
L0001036	0	0.77260E-06	462399.7	3769752.6	335.9	3.50	9.77	3.26	YES	
L0001037	0	0.77260E-06	462420.7	3769753.0	335.9	3.50	9.77	3.26	YES	
L0001038	0	0.77260E-06	462441.7	3769753.5	335.9	3.50	9.77	3.26	YES	
L0001039	0	0.77260E-06	462462.7	3769754.0	335.9	3.50	9.77	3.26	YES	

Model Output - Bloomington CWP Implementation 2040

L0001040 0 0.77260E-06 462483.7 3769754.4 336.0 3.50 9.77 3.26 YES
L0001041 0 0.77260E-06 462504.7 3769754.9 336.0 3.50 9.77 3.26 YES
L0001042 0 0.77260E-06 462525.7 3769755.3 336.0 3.50 9.77 3.26 YES
L0001043 0 0.77260E-06 462546.7 3769755.8 336.0 3.50 9.77 3.26 YES
*** AERMOD - VERSION 19191 *** *** CWP Implemenation, Bloomington, 2040
*** AERMET - VERSION 16216 *** *** (Existing Plus Project - Existing No Project) > 100 trucks/day

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0001044	0	0.77260E-06	462567.7	3769756.2	336.0	3.50	9.77	3.26	YES	
L0001045	0	0.77260E-06	462588.7	3769756.7	336.0	3.50	9.77	3.26	YES	
L0001046	0	0.77260E-06	462609.6	3769757.5	336.0	3.50	9.77	3.26	YES	
L0001047	0	0.77260E-06	462630.6	3769758.3	336.0	3.50	9.77	3.26	YES	
L0001048	0	0.77260E-06	462651.6	3769759.0	335.9	3.50	9.77	3.26	YES	
L0001049	0	0.77260E-06	462672.6	3769759.8	335.9	3.50	9.77	3.26	YES	
L0001050	0	0.77260E-06	462693.6	3769760.5	335.9	3.50	9.77	3.26	YES	
L0001051	0	0.91000E-06	462724.2	3769768.0	335.8	3.50	9.77	3.26	YES	
L0001052	0	0.91000E-06	462745.1	3769770.2	335.7	3.50	9.77	3.26	YES	
L0001053	0	0.91000E-06	462766.0	3769772.4	335.7	3.50	9.77	3.26	YES	
L0001054	0	0.91000E-06	462786.9	3769774.6	335.6	3.50	9.77	3.26	YES	
L0001055	0	0.91000E-06	462807.8	3769776.8	335.6	3.50	9.77	3.26	YES	
L0001056	0	0.91000E-06	462828.7	3769779.0	335.5	3.50	9.77	3.26	YES	
L0001057	0	0.91000E-06	462849.5	3769781.2	335.4	3.50	9.77	3.26	YES	
L0001058	0	0.91000E-06	462870.4	3769783.4	335.4	3.50	9.77	3.26	YES	
L0001059	0	0.91000E-06	462891.3	3769785.5	335.4	3.50	9.77	3.26	YES	
L0001060	0	0.91000E-06	462912.2	3769787.6	335.3	3.50	9.77	3.26	YES	
L0001061	0	0.91000E-06	462933.1	3769789.7	335.3	3.50	9.77	3.26	YES	
L0001062	0	0.91000E-06	462954.0	3769791.8	335.2	3.50	9.77	3.26	YES	
L0001063	0	0.91000E-06	462974.9	3769793.9	335.2	3.50	9.77	3.26	YES	
L0001064	0	0.91000E-06	462995.8	3769796.0	335.1	3.50	9.77	3.26	YES	
L0001065	0	0.91000E-06	463016.7	3769798.0	335.1	3.50	9.77	3.26	YES	
L0001066	0	0.91000E-06	463037.6	3769799.9	334.9	3.50	9.77	3.26	YES	
L0001067	0	0.91000E-06	463058.5	3769801.9	334.8	3.50	9.77	3.26	YES	
L0001068	0	0.91000E-06	463079.4	3769803.8	334.7	3.50	9.77	3.26	YES	
L0001069	0	0.91000E-06	463100.3	3769805.7	334.6	3.50	9.77	3.26	YES	
L0001070	0	0.91000E-06	463121.3	3769807.6	334.4	3.50	9.77	3.26	YES	
L0001071	0	0.91000E-06	463142.2	3769809.6	334.3	3.50	9.77	3.26	YES	
L0001072	0	0.91000E-06	463163.1	3769811.5	334.2	3.50	9.77	3.26	YES	
L0001073	0	0.91000E-06	463184.0	3769813.4	334.1	3.50	9.77	3.26	YES	
L0001074	0	0.91000E-06	463204.9	3769815.4	333.9	3.50	9.77	3.26	YES	
L0001075	0	0.91000E-06	463225.8	3769817.5	333.6	3.50	9.77	3.26	YES	
L0001076	0	0.91000E-06	463246.7	3769819.6	333.4	3.50	9.77	3.26	YES	
L0001077	0	0.91000E-06	463267.6	3769821.7	333.2	3.50	9.77	3.26	YES	

Model Output - Bloomington CWP Implementation 2040

L0001078	0	0.91000E-06	463288.5	3769823.8	333.0	3.50	9.77	3.26	YES	
L0001079	0	0.91000E-06	463309.4	3769825.9	332.7	3.50	9.77	3.26	YES	
L0001080	0	0.91000E-06	463330.3	3769827.0	332.5	3.50	9.77	3.26	YES	
L0001081	0	0.91000E-06	463351.3	3769827.7	332.2	3.50	9.77	3.26	YES	
L0001082	0	0.91000E-06	463372.3	3769828.3	331.9	3.50	9.77	3.26	YES	
L0001083	0	0.91000E-06	463393.3	3769828.9	331.7	3.50	9.77	3.26	YES	
*** AERMOD - VERSION	19191	***	*** CWP Implementation, Bloomington, 2040							***
*** AERMET - VERSION	16216	***	*** (Existing Plus Project - Existing No Project) > 100 trucks/day							***

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0001084	0	0.91000E-06	463414.3	3769829.6	331.4	3.50	9.77	3.26	YES	
L0001085	0	0.91000E-06	463435.3	3769830.2	331.1	3.50	9.77	3.26	YES	
L0001086	0	0.91000E-06	463456.3	3769831.0	330.9	3.50	9.77	3.26	YES	
L0001087	0	0.91000E-06	463477.2	3769832.4	330.7	3.50	9.77	3.26	YES	
L0001088	0	0.91000E-06	463498.2	3769833.9	330.4	3.50	9.77	3.26	YES	
L0001089	0	0.91000E-06	463519.1	3769835.4	330.2	3.50	9.77	3.26	YES	
L0001090	0	0.91000E-06	463540.1	3769836.8	330.0	3.50	9.77	3.26	YES	
L0001091	0	0.91000E-06	463561.0	3769836.2	329.7	3.50	9.77	3.26	YES	
L0001092	0	0.91000E-06	463582.0	3769835.4	329.5	3.50	9.77	3.26	YES	
L0001093	0	0.91000E-06	463603.0	3769834.6	329.2	3.50	9.77	3.26	YES	
L0001094	0	0.91000E-06	463624.0	3769833.8	329.0	3.50	9.77	3.26	YES	
L0001095	0	0.91000E-06	463645.0	3769833.0	328.7	3.50	9.77	3.26	YES	
L0001096	0	0.91000E-06	463666.0	3769831.9	328.4	3.50	9.77	3.26	YES	
L0001097	0	0.91000E-06	463686.9	3769830.7	328.2	3.50	9.77	3.26	YES	
L0001098	0	0.91000E-06	463707.9	3769829.5	327.9	3.50	9.77	3.26	YES	
L0001099	0	0.91000E-06	463728.8	3769828.3	327.6	3.50	9.77	3.26	YES	
L0001100	0	0.91000E-06	463749.8	3769827.1	327.3	3.50	9.77	3.26	YES	
L0001101	0	0.91000E-06	463770.8	3769825.9	327.0	3.50	9.77	3.26	YES	
L0001102	0	0.91000E-06	463791.7	3769824.7	326.7	3.50	9.77	3.26	YES	
L0001103	0	0.91000E-06	463812.7	3769823.5	326.4	3.50	9.77	3.26	YES	
L0001104	0	0.91000E-06	463833.7	3769822.2	326.2	3.50	9.77	3.26	YES	
L0001105	0	0.91000E-06	463854.6	3769820.3	326.1	3.50	9.77	3.26	YES	
L0001106	0	0.91000E-06	463875.5	3769818.4	325.9	3.50	9.77	3.26	YES	
L0001107	0	0.91000E-06	463896.4	3769816.5	325.8	3.50	9.77	3.26	YES	
L0001108	0	0.91000E-06	463917.3	3769814.7	325.7	3.50	9.77	3.26	YES	
L0001109	0	0.91000E-06	463938.2	3769812.8	325.5	3.50	9.77	3.26	YES	
L0001110	0	0.91000E-06	463959.2	3769810.9	325.4	3.50	9.77	3.26	YES	
L0001111	0	0.87090E-06	463986.8	3769808.7	325.3	3.50	9.77	3.26	YES	
L0001112	0	0.87090E-06	464007.8	3769807.6	325.3	3.50	9.77	3.26	YES	
L0001113	0	0.87090E-06	464028.8	3769806.5	325.3	3.50	9.77	3.26	YES	
L0001114	0	0.87090E-06	464049.7	3769805.4	325.2	3.50	9.77	3.26	YES	
L0001115	0	0.87090E-06	464070.7	3769804.3	325.2	3.50	9.77	3.26	YES	

Model Output - Bloomington CWP Implementation 2040

L0001116	0	0.87090E-06	464091.7	3769804.0	325.2	3.50	9.77	3.26	YES
L0001117	0	0.87090E-06	464112.7	3769803.8	325.2	3.50	9.77	3.26	YES
L0001118	0	0.87090E-06	464133.7	3769803.6	325.1	3.50	9.77	3.26	YES
L0001119	0	0.87090E-06	464154.7	3769803.4	325.1	3.50	9.77	3.26	YES
L0001120	0	0.87090E-06	464175.7	3769803.2	325.1	3.50	9.77	3.26	YES
L0001121	0	0.87090E-06	464196.7	3769803.0	325.1	3.50	9.77	3.26	YES
L0001122	0	0.81050E-06	461413.7	3769708.3	336.6	3.50	9.77	3.26	YES
L0001123	0	0.81050E-06	461434.7	3769709.0	336.6	3.50	9.77	3.26	YES

*** AERMOD - VERSION 19191 *** *** CWP Implemenation, Bloomington, 2040
 *** AERMET - VERSION 16216 *** *** (Existing Plus Project - Existing No Project) > 100 trucks/day

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0001124	0	0.81050E-06	461455.7	3769709.6	336.6	3.50	9.77	3.26	YES	
L0001125	0	0.81050E-06	461476.7	3769710.3	336.5	3.50	9.77	3.26	YES	
L0001126	0	0.81050E-06	461497.6	3769710.9	336.5	3.50	9.77	3.26	YES	
L0001127	0	0.81050E-06	461518.6	3769711.6	336.5	3.50	9.77	3.26	YES	
L0001128	0	0.81050E-06	461539.6	3769712.2	336.4	3.50	9.77	3.26	YES	
L0001129	0	0.81050E-06	461560.6	3769712.9	336.4	3.50	9.77	3.26	YES	
L0001130	0	0.81050E-06	461581.6	3769713.5	336.4	3.50	9.77	3.26	YES	
L0001131	0	0.81050E-06	461602.6	3769714.2	336.4	3.50	9.77	3.26	YES	
L0001132	0	0.81050E-06	461623.6	3769714.8	336.3	3.50	9.77	3.26	YES	
L0001133	0	0.81050E-06	461644.6	3769715.5	336.3	3.50	9.77	3.26	YES	
L0001134	0	0.81050E-06	461665.6	3769716.1	336.2	3.50	9.77	3.26	YES	
L0001135	0	0.81050E-06	461686.6	3769716.8	336.2	3.50	9.77	3.26	YES	
L0001136	0	0.81050E-06	461707.5	3769717.5	336.2	3.50	9.77	3.26	YES	
L0001137	0	0.81050E-06	461728.5	3769718.1	336.2	3.50	9.77	3.26	YES	
L0001138	0	0.81050E-06	461749.5	3769718.8	336.1	3.50	9.77	3.26	YES	
L0001139	0	0.81050E-06	461770.5	3769719.4	336.1	3.50	9.77	3.26	YES	
L0001140	0	0.81050E-06	461791.5	3769720.1	336.1	3.50	9.77	3.26	YES	
L0001141	0	0.81050E-06	461812.5	3769720.7	336.0	3.50	9.77	3.26	YES	
L0001142	0	0.81050E-06	461833.5	3769721.2	336.0	3.50	9.77	3.26	YES	
L0001143	0	0.81050E-06	461854.5	3769721.6	336.0	3.50	9.77	3.26	YES	
L0001144	0	0.81050E-06	461875.5	3769722.1	335.9	3.50	9.77	3.26	YES	
L0001145	0	0.81050E-06	461896.5	3769722.5	335.9	3.50	9.77	3.26	YES	
L0001146	0	0.81050E-06	461917.5	3769723.0	335.9	3.50	9.77	3.26	YES	
L0001147	0	0.81050E-06	461938.5	3769723.4	335.9	3.50	9.77	3.26	YES	
L0001148	0	0.81050E-06	461959.5	3769723.9	335.8	3.50	9.77	3.26	YES	
L0001149	0	0.81050E-06	461980.5	3769724.3	335.8	3.50	9.77	3.26	YES	
L0001150	0	0.81050E-06	462001.5	3769724.7	335.8	3.50	9.77	3.26	YES	
L0001151	0	0.81050E-06	462022.4	3769725.2	335.8	3.50	9.77	3.26	YES	
L0001152	0	0.81050E-06	462043.4	3769725.6	335.7	3.50	9.77	3.26	YES	
L0001153	0	0.81050E-06	462064.4	3769726.1	335.7	3.50	9.77	3.26	YES	

Model Output - Bloomington CWP Implementation 2040

L0001154	0	0.81050E-06	462085.4	3769726.5	335.7	3.50	9.77	3.26	YES
L0001155	0	0.81050E-06	462106.4	3769727.0	335.7	3.50	9.77	3.26	YES
L0001156	0	0.81050E-06	462127.4	3769727.4	335.6	3.50	9.77	3.26	YES
L0001157	0	0.81050E-06	462148.4	3769727.9	335.6	3.50	9.77	3.26	YES
L0001158	0	0.81050E-06	462169.4	3769728.3	335.6	3.50	9.77	3.26	YES
L0001159	0	0.81050E-06	462190.4	3769728.8	335.5	3.50	9.77	3.26	YES
L0001160	0	0.81050E-06	462211.4	3769729.2	335.5	3.50	9.77	3.26	YES
L0001161	0	0.81050E-06	462232.4	3769729.5	335.5	3.50	9.77	3.26	YES
L0001162	0	0.81050E-06	462253.4	3769729.7	335.6	3.50	9.77	3.26	YES
L0001163	0	0.81050E-06	462274.4	3769729.9	335.6	3.50	9.77	3.26	YES

*** AERMOD - VERSION 19191 *** *** CWP Implementation, Bloomington, 2040

*** AERMET - VERSION 16216 *** *** (Existing Plus Project - Existing No Project) > 100 trucks/day

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0001164	0	0.81050E-06	462295.4	3769730.2	335.6	3.50	9.77	3.26	YES	
L0001165	0	0.81050E-06	462316.4	3769730.4	335.7	3.50	9.77	3.26	YES	
L0001166	0	0.81050E-06	462337.4	3769730.6	335.7	3.50	9.77	3.26	YES	
L0001167	0	0.81050E-06	462358.4	3769730.9	335.7	3.50	9.77	3.26	YES	
L0001168	0	0.81050E-06	462379.4	3769731.1	335.8	3.50	9.77	3.26	YES	
L0001169	0	0.81050E-06	462400.4	3769731.3	335.8	3.50	9.77	3.26	YES	
L0001170	0	0.81050E-06	462421.4	3769731.6	335.8	3.50	9.77	3.26	YES	
L0001171	0	0.81050E-06	462442.4	3769731.8	335.9	3.50	9.77	3.26	YES	
L0001172	0	0.81050E-06	462463.4	3769732.0	335.9	3.50	9.77	3.26	YES	
L0001173	0	0.81050E-06	462484.4	3769732.3	335.9	3.50	9.77	3.26	YES	
L0001174	0	0.81050E-06	462505.4	3769732.5	336.0	3.50	9.77	3.26	YES	
L0001175	0	0.81050E-06	462526.4	3769732.7	336.0	3.50	9.77	3.26	YES	
L0001176	0	0.81050E-06	462547.4	3769733.0	336.0	3.50	9.77	3.26	YES	
L0001177	0	0.81050E-06	462568.4	3769733.2	336.1	3.50	9.77	3.26	YES	
L0001178	0	0.81050E-06	462589.4	3769733.5	336.1	3.50	9.77	3.26	YES	
L0001179	0	0.91040E-06	462614.8	3769735.8	336.1	3.50	9.77	3.26	YES	
L0001180	0	0.91040E-06	462635.8	3769736.1	336.0	3.50	9.77	3.26	YES	
L0001181	0	0.91040E-06	462656.8	3769736.4	336.0	3.50	9.77	3.26	YES	
L0001182	0	0.91040E-06	462677.8	3769736.8	336.0	3.50	9.77	3.26	YES	
L0001183	0	0.91040E-06	462698.8	3769737.1	336.0	3.50	9.77	3.26	YES	
L0001184	0	0.91040E-06	462719.8	3769737.4	335.9	3.50	9.77	3.26	YES	
L0001185	0	0.91040E-06	462740.8	3769737.7	335.9	3.50	9.77	3.26	YES	
L0001186	0	0.91040E-06	462761.6	3769740.4	335.9	3.50	9.77	3.26	YES	
L0001187	0	0.91040E-06	462782.4	3769743.3	335.8	3.50	9.77	3.26	YES	
L0001188	0	0.91040E-06	462803.2	3769746.1	335.7	3.50	9.77	3.26	YES	
L0001189	0	0.91040E-06	462824.0	3769749.0	335.6	3.50	9.77	3.26	YES	
L0001190	0	0.91040E-06	462844.8	3769751.9	335.6	3.50	9.77	3.26	YES	
L0001191	0	0.91040E-06	462865.6	3769754.8	335.5	3.50	9.77	3.26	YES	

Model Output - Bloomington CWP Implementation 2040

L0001192	0	0.91040E-06	462886.4	3769757.7	335.4	3.50	9.77	3.26	YES
L0001193	0	0.91040E-06	462907.2	3769760.5	335.4	3.50	9.77	3.26	YES
L0001194	0	0.91040E-06	462928.0	3769763.4	335.3	3.50	9.77	3.26	YES
L0001195	0	0.91040E-06	462948.8	3769766.0	335.2	3.50	9.77	3.26	YES
L0001196	0	0.91040E-06	462969.7	3769768.1	335.1	3.50	9.77	3.26	YES
L0001197	0	0.91040E-06	462990.6	3769770.1	335.1	3.50	9.77	3.26	YES
L0001198	0	0.91040E-06	463011.5	3769772.2	335.0	3.50	9.77	3.26	YES
L0001199	0	0.91040E-06	463032.4	3769774.2	334.9	3.50	9.77	3.26	YES
L0001200	0	0.91040E-06	463053.3	3769776.3	334.9	3.50	9.77	3.26	YES
L0001201	0	0.91040E-06	463074.2	3769778.3	334.8	3.50	9.77	3.26	YES
L0001202	0	0.91040E-06	463095.1	3769780.3	334.7	3.50	9.77	3.26	YES
L0001203	0	0.91040E-06	463116.0	3769782.4	334.6	3.50	9.77	3.26	YES

*** AERMOD - VERSION 19191 *** *** CWP Implemenation, Bloomington, 2040 ***
 *** AERMET - VERSION 16216 *** *** (Existing Plus Project - Existing No Project) > 100 trucks/day ***

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0001204	0	0.91040E-06	463136.9	3769784.4	334.6	3.50	9.77	3.26	YES	
L0001205	0	0.91040E-06	463157.9	3769786.3	334.3	3.50	9.77	3.26	YES	
L0001206	0	0.91040E-06	463178.8	3769788.2	334.1	3.50	9.77	3.26	YES	
L0001207	0	0.91040E-06	463199.7	3769790.1	333.8	3.50	9.77	3.26	YES	
L0001208	0	0.91040E-06	463220.6	3769792.0	333.6	3.50	9.77	3.26	YES	
L0001209	0	0.91040E-06	463241.5	3769793.9	333.3	3.50	9.77	3.26	YES	
L0001210	0	0.91040E-06	463262.4	3769795.8	333.1	3.50	9.77	3.26	YES	
L0001211	0	0.91040E-06	463283.3	3769797.7	332.8	3.50	9.77	3.26	YES	
L0001212	0	0.91040E-06	463304.3	3769799.6	332.6	3.50	9.77	3.26	YES	
L0001213	0	0.91040E-06	463325.2	3769801.5	332.3	3.50	9.77	3.26	YES	
L0001214	0	0.91040E-06	463346.1	3769802.9	332.1	3.50	9.77	3.26	YES	
L0001215	0	0.91040E-06	463367.1	3769804.2	331.8	3.50	9.77	3.26	YES	
L0001216	0	0.91040E-06	463388.0	3769805.5	331.6	3.50	9.77	3.26	YES	
L0001217	0	0.91040E-06	463409.0	3769806.9	331.3	3.50	9.77	3.26	YES	
L0001218	0	0.91040E-06	463430.0	3769808.2	331.1	3.50	9.77	3.26	YES	
L0001219	0	0.91040E-06	463450.9	3769809.5	330.8	3.50	9.77	3.26	YES	
L0001220	0	0.91040E-06	463471.9	3769809.8	330.6	3.50	9.77	3.26	YES	
L0001221	0	0.91040E-06	463492.9	3769809.5	330.3	3.50	9.77	3.26	YES	
L0001222	0	0.91040E-06	463513.9	3769809.2	330.1	3.50	9.77	3.26	YES	
L0001223	0	0.91040E-06	463534.9	3769808.9	329.8	3.50	9.77	3.26	YES	
L0001224	0	0.91040E-06	463555.9	3769808.6	329.5	3.50	9.77	3.26	YES	
L0001225	0	0.91040E-06	463576.9	3769808.3	329.3	3.50	9.77	3.26	YES	
L0001226	0	0.91040E-06	463597.9	3769808.0	329.0	3.50	9.77	3.26	YES	
L0001227	0	0.91040E-06	463618.8	3769807.0	328.8	3.50	9.77	3.26	YES	
L0001228	0	0.91040E-06	463639.8	3769805.4	328.5	3.50	9.77	3.26	YES	
L0001229	0	0.91040E-06	463660.7	3769803.8	328.2	3.50	9.77	3.26	YES	

Model Output - Bloomington CWP Implementation 2040

L0001230	0	0.91040E-06	463681.7	3769802.2	328.0	3.50	9.77	3.26	YES
L0001231	0	0.91040E-06	463702.6	3769800.5	327.7	3.50	9.77	3.26	YES
L0001232	0	0.91040E-06	463723.5	3769798.9	327.5	3.50	9.77	3.26	YES
L0001233	0	0.91040E-06	463744.5	3769797.3	327.2	3.50	9.77	3.26	YES
L0001234	0	0.91040E-06	463765.4	3769795.7	327.0	3.50	9.77	3.26	YES
L0001235	0	0.91040E-06	463786.3	3769794.0	326.7	3.50	9.77	3.26	YES
L0001236	0	0.91040E-06	463807.3	3769792.4	326.5	3.50	9.77	3.26	YES
L0001237	0	0.91040E-06	463828.2	3769790.8	326.2	3.50	9.77	3.26	YES
L0001238	0	0.91040E-06	463849.2	3769789.7	326.1	3.50	9.77	3.26	YES
L0001239	0	0.91040E-06	463870.2	3769788.5	326.0	3.50	9.77	3.26	YES
L0001240	0	0.91040E-06	463891.1	3769787.4	325.9	3.50	9.77	3.26	YES
L0001241	0	0.91040E-06	463912.1	3769786.2	325.8	3.50	9.77	3.26	YES
L0001242	0	0.91040E-06	463933.1	3769785.1	325.7	3.50	9.77	3.26	YES
L0001243	0	0.91040E-06	463954.0	3769783.9	325.6	3.50	9.77	3.26	YES
*** AERMOD - VERSION	19191	***	*** CWP Implemenation, Bloomington, 2040						
*** AERMET - VERSION	16216	***	*** (Existing Plus Project - Existing No Project) > 100 trucks/day						

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0001244	0	0.91040E-06	463975.0	3769782.8	325.5	3.50	9.77	3.26	YES	
L0001245	0	0.91040E-06	463996.0	3769781.9	325.5	3.50	9.77	3.26	YES	
L0001246	0	0.91040E-06	464017.0	3769781.3	325.5	3.50	9.77	3.26	YES	
L0001247	0	0.91040E-06	464038.0	3769780.6	325.5	3.50	9.77	3.26	YES	
L0001248	0	0.91040E-06	464059.0	3769779.9	325.5	3.50	9.77	3.26	YES	
L0001249	0	0.91040E-06	464079.9	3769779.2	325.5	3.50	9.77	3.26	YES	
L0001250	0	0.91040E-06	464100.9	3769778.6	325.4	3.50	9.77	3.26	YES	
L0001251	0	0.91040E-06	464121.9	3769778.0	325.4	3.50	9.77	3.26	YES	
L0001252	0	0.91040E-06	464142.9	3769777.5	325.4	3.50	9.77	3.26	YES	
L0001253	0	0.91040E-06	464163.9	3769777.0	325.4	3.50	9.77	3.26	YES	
L0001254	0	0.91040E-06	464184.9	3769776.6	325.4	3.50	9.77	3.26	YES	
L0001255	0	0.91040E-06	464205.9	3769776.1	325.4	3.50	9.77	3.26	YES	
L0001260	0	0.13180E-06	461420.9	3769233.2	330.3	3.50	10.70	3.26	YES	
L0001261	0	0.13180E-06	461443.9	3769233.5	330.2	3.50	10.70	3.26	YES	
L0001262	0	0.13180E-06	461466.9	3769233.8	330.1	3.50	10.70	3.26	YES	
L0001263	0	0.13180E-06	461489.9	3769234.1	330.1	3.50	10.70	3.26	YES	
L0001264	0	0.13180E-06	461512.9	3769234.4	330.0	3.50	10.70	3.26	YES	
L0001265	0	0.13180E-06	461535.9	3769234.7	329.9	3.50	10.70	3.26	YES	
L0001266	0	0.13180E-06	461558.8	3769235.0	329.9	3.50	10.70	3.26	YES	
L0001267	0	0.13180E-06	461581.8	3769235.3	329.8	3.50	10.70	3.26	YES	
L0001268	0	0.13180E-06	461604.8	3769235.6	329.7	3.50	10.70	3.26	YES	
L0001269	0	0.13180E-06	461627.8	3769235.9	329.7	3.50	10.70	3.26	YES	
L0001270	0	0.13180E-06	461650.8	3769236.2	329.6	3.50	10.70	3.26	YES	
L0001271	0	0.11080E-06	461682.8	3769234.7	329.5	3.50	10.70	3.26	YES	

Model Output - Bloomington CWP Implementation 2040

L0001272	0	0.11080E-06	461705.8	3769234.8	329.4	3.50	10.70	3.26	YES
L0001273	0	0.11080E-06	461728.8	3769235.0	329.4	3.50	10.70	3.26	YES
L0001274	0	0.11080E-06	461751.8	3769235.1	329.3	3.50	10.70	3.26	YES
L0001275	0	0.11080E-06	461774.8	3769235.2	329.2	3.50	10.70	3.26	YES
L0001276	0	0.11080E-06	461797.8	3769235.3	329.2	3.50	10.70	3.26	YES
L0001277	0	0.11080E-06	461820.8	3769235.4	329.1	3.50	10.70	3.26	YES
L0001278	0	0.11080E-06	461843.8	3769235.5	329.1	3.50	10.70	3.26	YES
L0001279	0	0.11080E-06	461866.8	3769235.6	329.0	3.50	10.70	3.26	YES
L0001280	0	0.11080E-06	461889.8	3769235.8	328.9	3.50	10.70	3.26	YES
L0001281	0	0.11080E-06	461912.8	3769235.9	328.9	3.50	10.70	3.26	YES
L0001282	0	0.11080E-06	461935.8	3769236.0	328.8	3.50	10.70	3.26	YES
L0001283	0	0.11080E-06	461958.8	3769236.1	328.8	3.50	10.70	3.26	YES
L0001284	0	0.11080E-06	461981.8	3769236.2	328.7	3.50	10.70	3.26	YES
L0001285	0	0.11080E-06	462004.8	3769236.3	328.6	3.50	10.70	3.26	YES
L0001286	0	0.11080E-06	462027.8	3769236.2	328.6	3.50	10.70	3.26	YES
L0001287	0	0.11080E-06	462050.8	3769236.0	328.5	3.50	10.70	3.26	YES

*** AERMOD - VERSION 19191 *** *** CWP Implemenation, Bloomington, 2040
 *** AERMET - VERSION 16216 *** *** (Existing Plus Project - Existing No Project) > 100 trucks/day

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0001288	0	0.11080E-06	462073.8	3769235.8	328.4	3.50	10.70	3.26	YES	
L0001289	0	0.11080E-06	462096.8	3769235.6	328.4	3.50	10.70	3.26	YES	
L0001290	0	0.11080E-06	462119.8	3769235.4	328.3	3.50	10.70	3.26	YES	
L0001291	0	0.11080E-06	462142.8	3769235.2	328.2	3.50	10.70	3.26	YES	
L0001292	0	0.11080E-06	462165.8	3769235.1	328.2	3.50	10.70	3.26	YES	
L0001293	0	0.11080E-06	462188.8	3769234.9	328.1	3.50	10.70	3.26	YES	
L0001294	0	0.11080E-06	462211.8	3769234.7	328.1	3.50	10.70	3.26	YES	
L0001319	0	0.28060E-06	462244.7	3769234.0	328.1	3.50	10.70	3.26	YES	
L0001320	0	0.28060E-06	462267.7	3769234.0	328.1	3.50	10.70	3.26	YES	
L0001321	0	0.28060E-06	462290.7	3769234.0	328.2	3.50	10.70	3.26	YES	
L0001322	0	0.28060E-06	462313.7	3769234.0	328.2	3.50	10.70	3.26	YES	
L0001323	0	0.28060E-06	462336.7	3769234.0	328.2	3.50	10.70	3.26	YES	
L0001324	0	0.28060E-06	462359.7	3769234.0	328.3	3.50	10.70	3.26	YES	
L0001325	0	0.28060E-06	462382.7	3769234.0	328.3	3.50	10.70	3.26	YES	
L0001326	0	0.28060E-06	462405.7	3769234.0	328.4	3.50	10.70	3.26	YES	
L0001327	0	0.28060E-06	462428.7	3769234.0	328.4	3.50	10.70	3.26	YES	
L0001328	0	0.28060E-06	462451.7	3769234.0	328.5	3.50	10.70	3.26	YES	
L0001329	0	0.28060E-06	462474.7	3769234.0	328.5	3.50	10.70	3.26	YES	
L0001330	0	0.28060E-06	462497.7	3769234.0	328.6	3.50	10.70	3.26	YES	
L0001331	0	0.28060E-06	462520.7	3769234.0	328.6	3.50	10.70	3.26	YES	
L0001332	0	0.28060E-06	462543.7	3769234.0	328.7	3.50	10.70	3.26	YES	
L0001333	0	0.28060E-06	462566.7	3769234.0	328.7	3.50	10.70	3.26	YES	

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L0001334	0	0.28060E-06	462589.7	3769234.0	328.8	3.50	10.70	3.26	YES
L0001335	0	0.28060E-06	462612.7	3769234.0	328.8	3.50	10.70	3.26	YES
L0001336	0	0.58380E-07	463826.1	3769231.6	323.1	3.50	5.12	3.26	YES
L0001337	0	0.58380E-07	463837.1	3769231.5	323.0	3.50	5.12	3.26	YES
L0001338	0	0.58380E-07	463848.1	3769231.5	323.0	3.50	5.12	3.26	YES
L0001339	0	0.58380E-07	463859.1	3769231.5	322.9	3.50	5.12	3.26	YES
L0001340	0	0.58380E-07	463870.1	3769231.4	322.8	3.50	5.12	3.26	YES
L0001341	0	0.58380E-07	463881.1	3769231.4	322.7	3.50	5.12	3.26	YES
L0001342	0	0.58380E-07	463892.1	3769231.4	322.7	3.50	5.12	3.26	YES
L0001343	0	0.58380E-07	463903.1	3769231.3	322.6	3.50	5.12	3.26	YES
L0001344	0	0.58380E-07	463914.1	3769231.3	322.5	3.50	5.12	3.26	YES
L0001345	0	0.58380E-07	463925.1	3769231.3	322.4	3.50	5.12	3.26	YES
L0001346	0	0.58380E-07	463936.1	3769231.2	322.4	3.50	5.12	3.26	YES
L0001347	0	0.58380E-07	463947.1	3769231.2	322.3	3.50	5.12	3.26	YES
L0001348	0	0.58380E-07	463958.1	3769231.2	322.2	3.50	5.12	3.26	YES
L0001349	0	0.58380E-07	463969.1	3769231.1	322.1	3.50	5.12	3.26	YES
L0001350	0	0.58380E-07	463980.1	3769231.1	322.1	3.50	5.12	3.26	YES
L0001351	0	0.58380E-07	463991.1	3769231.1	322.0	3.50	5.12	3.26	YES

*** AERMOD - VERSION 19191 *** CWP Implemenation, Bloomington, 2040

*** AERMET - VERSION 16216 *** (Existing Plus Project - Existing No Project) > 100 trucks/day

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0001352	0	0.58380E-07	464002.1	3769231.0	321.9	3.50	5.12	3.26	YES	
L0001353	0	0.58380E-07	464013.1	3769231.0	321.8	3.50	5.12	3.26	YES	
L0001354	0	0.58380E-07	464024.1	3769231.0	321.8	3.50	5.12	3.26	YES	
L0001355	0	0.58380E-07	464035.1	3769230.9	321.7	3.50	5.12	3.26	YES	
L0001356	0	0.58380E-07	464046.1	3769230.9	321.6	3.50	5.12	3.26	YES	
L0001357	0	0.58380E-07	464057.1	3769230.9	321.5	3.50	5.12	3.26	YES	
L0001358	0	0.58380E-07	464068.1	3769230.8	321.5	3.50	5.12	3.26	YES	
L0001359	0	0.58380E-07	464079.1	3769230.8	321.4	3.50	5.12	3.26	YES	
L0001360	0	0.58380E-07	464090.1	3769230.8	321.3	3.50	5.12	3.26	YES	
L0001361	0	0.58380E-07	464101.1	3769230.8	321.2	3.50	5.12	3.26	YES	
L0001362	0	0.58380E-07	464112.1	3769230.7	321.2	3.50	5.12	3.26	YES	
L0001363	0	0.58380E-07	464123.1	3769230.7	321.1	3.50	5.12	3.26	YES	
L0001364	0	0.58380E-07	464134.1	3769230.7	321.0	3.50	5.12	3.26	YES	
L0001365	0	0.58380E-07	464145.1	3769230.6	320.9	3.50	5.12	3.26	YES	
L0001366	0	0.58380E-07	464156.1	3769230.6	320.9	3.50	5.12	3.26	YES	
L0001367	0	0.58380E-07	464167.1	3769230.6	320.8	3.50	5.12	3.26	YES	
L0001368	0	0.58380E-07	464178.1	3769230.5	320.7	3.50	5.12	3.26	YES	
L0001369	0	0.58380E-07	464189.1	3769230.5	320.7	3.50	5.12	3.26	YES	
L0001370	0	0.58380E-07	464200.1	3769230.5	320.6	3.50	5.12	3.26	YES	
L0001371	0	0.58380E-07	464211.1	3769230.4	320.5	3.50	5.12	3.26	YES	

Model Output - Bloomington CWP Implementation 2040

L0001372	0	0.58380E-07	464222.1	3769230.4	320.4	3.50	5.12	3.26	YES
L0001373	0	0.12800E-06	464431.9	3769233.9	319.8	3.50	6.28	3.26	YES
L0001374	0	0.12800E-06	464445.4	3769233.6	319.7	3.50	6.28	3.26	YES
L0001375	0	0.12800E-06	464458.9	3769233.4	319.6	3.50	6.28	3.26	YES
L0001376	0	0.12800E-06	464472.3	3769233.1	319.4	3.50	6.28	3.26	YES
L0001377	0	0.12800E-06	464485.8	3769232.9	319.3	3.50	6.28	3.26	YES
L0001378	0	0.12800E-06	464499.3	3769232.6	319.2	3.50	6.28	3.26	YES
L0001379	0	0.12800E-06	464512.8	3769232.4	319.1	3.50	6.28	3.26	YES
L0001380	0	0.12800E-06	464526.3	3769232.2	319.0	3.50	6.28	3.26	YES
L0001381	0	0.12800E-06	464539.8	3769231.9	318.9	3.50	6.28	3.26	YES
L0001382	0	0.12800E-06	464553.3	3769231.7	318.8	3.50	6.28	3.26	YES
L0001383	0	0.12800E-06	464566.8	3769231.4	318.7	3.50	6.28	3.26	YES
L0001384	0	0.12800E-06	464580.3	3769231.2	318.6	3.50	6.28	3.26	YES
L0001385	0	0.12800E-06	464593.8	3769230.9	318.4	3.50	6.28	3.26	YES
L0001386	0	0.12800E-06	464607.3	3769230.7	318.3	3.50	6.28	3.26	YES
L0001387	0	0.12800E-06	464620.8	3769230.5	318.2	3.50	6.28	3.26	YES
L0001388	0	0.92240E-07	464626.2	3769221.8	318.1	3.50	3.49	3.26	YES
L0001389	0	0.92240E-07	464626.2	3769214.3	318.0	3.50	3.49	3.26	YES
L0001390	0	0.92240E-07	464626.1	3769206.8	317.9	3.50	3.49	3.26	YES
L0001391	0	0.92240E-07	464626.1	3769199.3	317.8	3.50	3.49	3.26	YES

*** AERMOD - VERSION 19191 ***
 *** AERMET - VERSION 16216 ***

*** CWP Implemenation, Bloomington, 2040
 *** (Existing Plus Project - Existing No Project) > 100 trucks/day

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0001392	0	0.92240E-07	464626.0	3769191.8	317.6	3.50	3.49	3.26	YES	
L0001393	0	0.92240E-07	464626.0	3769184.3	317.5	3.50	3.49	3.26	YES	
L0001394	0	0.92240E-07	464625.9	3769176.9	317.4	3.50	3.49	3.26	YES	
L0001395	0	0.92240E-07	464625.9	3769169.4	317.3	3.50	3.49	3.26	YES	
L0001396	0	0.92240E-07	464625.8	3769161.9	317.2	3.50	3.49	3.26	YES	
L0001397	0	0.92240E-07	464625.8	3769154.4	317.1	3.50	3.49	3.26	YES	
L0001398	0	0.92240E-07	464625.8	3769146.9	317.0	3.50	3.49	3.26	YES	
L0001399	0	0.92240E-07	464625.7	3769139.4	316.9	3.50	3.49	3.26	YES	
L0001400	0	0.92240E-07	464625.7	3769131.9	316.8	3.50	3.49	3.26	YES	
L0001401	0	0.92240E-07	464625.6	3769124.4	316.7	3.50	3.49	3.26	YES	
L0001402	0	0.92240E-07	464625.6	3769116.9	316.6	3.50	3.49	3.26	YES	
L0001403	0	0.92240E-07	464625.5	3769109.4	316.5	3.50	3.49	3.26	YES	
L0001404	0	0.92240E-07	464625.5	3769101.9	316.4	3.50	3.49	3.26	YES	
L0001405	0	0.92240E-07	464625.5	3769094.4	316.2	3.50	3.49	3.26	YES	
L0001406	0	0.92240E-07	464625.4	3769086.9	316.2	3.50	3.49	3.26	YES	
L0001407	0	0.92240E-07	464625.4	3769079.4	316.0	3.50	3.49	3.26	YES	
L0001408	0	0.92240E-07	464625.3	3769071.9	315.9	3.50	3.49	3.26	YES	
L0001409	0	0.92240E-07	464625.3	3769064.4	315.8	3.50	3.49	3.26	YES	

Model Output - Bloomington CWP Implementation 2040

L0001410	0	0.92240E-07	464625.2	3769056.9	315.7	3.50	3.49	3.26	YES
L0001411	0	0.92240E-07	464625.2	3769049.4	315.6	3.50	3.49	3.26	YES
L0001412	0	0.92240E-07	464625.1	3769041.9	315.5	3.50	3.49	3.26	YES
L0001413	0	0.92240E-07	464625.1	3769034.4	315.4	3.50	3.49	3.26	YES
L0001414	0	0.92240E-07	464625.1	3769026.9	315.3	3.50	3.49	3.26	YES
L0001415	0	0.92240E-07	464624.7	3769019.4	315.2	3.50	3.49	3.26	YES
L0001416	0	0.92240E-07	464622.8	3769012.1	315.1	3.50	3.49	3.26	YES
L0001417	0	0.92240E-07	464621.0	3769004.8	314.9	3.50	3.49	3.26	YES
L0001418	0	0.92240E-07	464619.2	3768997.6	314.8	3.50	3.49	3.26	YES
L0001419	0	0.92240E-07	464619.1	3768990.1	314.7	3.43	3.49	3.26	YES
L0001420	0	0.92240E-07	464619.1	3768982.6	314.6	3.36	3.49	3.26	YES
L0001421	0	0.92240E-07	464619.1	3768975.1	314.5	3.29	3.49	3.26	YES
L0001422	0	0.92240E-07	464619.1	3768967.6	314.4	3.22	3.49	3.26	YES
L0001423	0	0.92240E-07	464619.2	3768960.1	314.3	3.15	3.49	3.26	YES
L0001424	0	0.92240E-07	464619.2	3768952.6	314.2	3.07	3.49	3.26	YES
L0001425	0	0.92240E-07	464619.2	3768945.1	314.1	3.00	3.49	3.26	YES
L0001426	0	0.92240E-07	464619.2	3768937.6	314.0	2.93	3.49	3.26	YES
L0001427	0	0.92240E-07	464619.3	3768930.1	313.9	2.86	3.49	3.26	YES
L0001428	0	0.92240E-07	464619.3	3768922.6	313.8	2.79	3.49	3.26	YES
L0001429	0	0.92240E-07	464619.3	3768915.1	313.7	2.72	3.49	3.26	YES
L0001430	0	0.92240E-07	464619.3	3768907.6	313.6	2.64	3.49	3.26	YES
L0001431	0	0.92240E-07	464619.4	3768900.1	313.5	2.57	3.49	3.26	YES

*** AERMOD - VERSION 19191 *** CWP Implemenation, Bloomington, 2040

*** AERMET - VERSION 16216 *** (Existing Plus Project - Existing No Project) > 100 trucks/day

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0001432	0	0.92240E-07	464619.4	3768892.6	313.4	2.50	3.49	3.26	YES	
L0001433	0	0.92240E-07	464619.4	3768885.1	313.3	2.43	3.49	3.26	YES	
L0001434	0	0.92240E-07	464619.4	3768877.6	313.2	2.36	3.49	3.26	YES	
L0001435	0	0.92240E-07	464619.5	3768870.1	313.1	2.28	3.49	3.26	YES	
L0001436	0	0.92240E-07	464619.5	3768862.6	313.0	2.21	3.49	3.26	YES	
L0001437	0	0.92240E-07	464619.5	3768855.1	312.9	2.14	3.49	3.26	YES	
L0001438	0	0.92240E-07	464619.5	3768847.6	312.8	2.07	3.49	3.26	YES	
L0001439	0	0.92240E-07	464619.6	3768840.1	312.7	2.00	3.49	3.26	YES	
L0001440	0	0.92240E-07	464619.6	3768832.6	312.6	1.92	3.49	3.26	YES	
L0001441	0	0.92240E-07	464619.6	3768825.1	312.5	1.85	3.49	3.26	YES	
L0001442	0	0.92240E-07	464619.6	3768817.6	312.4	1.78	3.49	3.26	YES	
L0001443	0	0.92240E-07	464619.7	3768810.1	312.3	1.71	3.49	3.26	YES	
L0001444	0	0.92240E-07	464619.7	3768802.6	312.2	1.64	3.49	3.26	YES	
L0001445	0	0.92240E-07	464619.7	3768795.1	312.1	1.56	3.49	3.26	YES	
L0001446	0	0.92240E-07	464619.7	3768787.6	312.0	1.49	3.49	3.26	YES	
L0001447	0	0.92240E-07	464619.8	3768780.1	311.9	1.42	3.49	3.26	YES	

Model Output - Bloomington CWP Implementation 2040

L0001448	0	0.92240E-07	464619.8	3768772.6	311.8	1.35	3.49	3.26	YES
L0001449	0	0.92240E-07	464619.8	3768765.1	311.7	1.28	3.49	3.26	YES
L0001450	0	0.92240E-07	464619.8	3768757.6	311.6	1.21	3.49	3.26	YES
L0001451	0	0.92240E-07	464619.8	3768750.1	311.5	1.13	3.49	3.26	YES
L0001452	0	0.92240E-07	464619.9	3768742.6	311.4	1.06	3.49	3.26	YES
L0001453	0	0.92240E-07	464619.9	3768735.1	311.3	0.99	3.49	3.26	YES
L0001454	0	0.92240E-07	464619.9	3768727.6	311.2	0.92	3.49	3.26	YES
L0001455	0	0.92240E-07	464619.9	3768720.1	311.1	0.85	3.49	3.26	YES
L0001456	0	0.92240E-07	464620.0	3768712.6	311.0	0.77	3.49	3.26	YES
L0001457	0	0.92240E-07	464620.0	3768705.1	310.9	0.70	3.49	3.26	YES
L0001458	0	0.92240E-07	464620.0	3768697.6	310.8	0.63	3.49	3.26	YES
L0001459	0	0.92240E-07	464620.0	3768690.1	310.7	0.56	3.49	3.26	YES
L0001460	0	0.92240E-07	464620.1	3768682.6	310.6	0.49	3.49	3.26	YES
L0001461	0	0.92240E-07	464620.1	3768675.1	310.5	0.41	3.49	3.26	YES
L0001462	0	0.92240E-07	464620.1	3768667.6	310.4	0.34	3.49	3.26	YES
L0001463	0	0.92240E-07	464620.1	3768660.1	310.3	0.27	3.49	3.26	YES
L0001464	0	0.92240E-07	464620.2	3768652.6	310.2	0.20	3.49	3.26	YES
L0001465	0	0.92240E-07	464620.2	3768645.1	310.2	0.13	3.49	3.26	YES
L0001466	0	0.92240E-07	464620.2	3768637.6	310.1	0.06	3.49	3.26	YES
L0001467	0	0.92240E-07	464620.4	3768630.1	309.9	0.00	3.49	3.26	YES
L0001468	0	0.92240E-07	464621.2	3768622.6	309.8	0.00	3.49	3.26	YES
L0001469	0	0.92240E-07	464621.9	3768615.2	309.7	0.00	3.49	3.26	YES
L0001470	0	0.92240E-07	464622.7	3768607.7	309.6	0.00	3.49	3.26	YES
L0001471	0	0.92240E-07	464623.5	3768600.3	309.5	0.00	3.49	3.26	YES

*** AERMOD - VERSION 19191 *** *** CWP Implemenation, Bloomington, 2040
 *** AERMET - VERSION 16216 *** *** (Existing Plus Project - Existing No Project) > 100 trucks/day

*** 05/22/20
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*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0001472	0	0.92240E-07	464624.2	3768592.8	309.3	0.00	3.49	3.26	YES	
L0001473	0	0.92240E-07	464625.0	3768585.3	309.2	0.00	3.49	3.26	YES	
L0001474	0	0.92240E-07	464625.0	3768577.8	309.1	0.00	3.49	3.26	YES	
L0001475	0	0.92240E-07	464625.0	3768570.3	309.0	0.00	3.49	3.26	YES	
L0001476	0	0.92240E-07	464625.0	3768562.8	308.9	0.00	3.49	3.26	YES	
L0001477	0	0.92240E-07	464625.0	3768555.3	308.8	0.00	3.49	3.26	YES	
L0001478	0	0.92240E-07	464625.0	3768547.8	308.7	0.00	3.49	3.26	YES	
L0001479	0	0.92240E-07	464625.0	3768540.3	308.6	0.00	3.49	3.26	YES	
L0001480	0	0.92240E-07	464625.0	3768532.8	308.5	0.00	3.49	3.26	YES	
L0001481	0	0.92240E-07	464625.0	3768525.3	308.4	0.00	3.49	3.26	YES	
L0001482	0	0.92240E-07	464625.0	3768517.8	308.3	0.00	3.49	3.26	YES	
L0001483	0	0.92240E-07	464625.0	3768510.3	308.2	0.00	3.49	3.26	YES	
L0001484	0	0.92240E-07	464625.0	3768502.8	308.1	0.00	3.49	3.26	YES	
L0001485	0	0.92240E-07	464625.0	3768495.3	308.0	0.00	3.49	3.26	YES	

Model Output - Bloomington CWP Implementation 2040

L0001486	0	0.92240E-07	464625.0	3768487.8	307.9	0.00	3.49	3.26	YES
L0001487	0	0.92240E-07	464625.0	3768480.3	307.8	0.00	3.49	3.26	YES
L0001488	0	0.92240E-07	464625.0	3768472.8	307.7	0.00	3.49	3.26	YES
L0001489	0	0.92240E-07	464625.0	3768465.3	307.5	0.00	3.49	3.26	YES
L0001490	0	0.92240E-07	464625.0	3768457.8	307.4	0.00	3.49	3.26	YES
L0001491	0	0.92240E-07	464625.0	3768450.3	307.3	0.00	3.49	3.26	YES
L0001492	0	0.92240E-07	464625.0	3768442.8	307.2	0.00	3.49	3.26	YES
L0001493	0	0.92240E-07	464625.0	3768435.3	307.1	0.00	3.49	3.26	YES
L0001494	0	0.92240E-07	464625.0	3768427.8	307.0	0.00	3.49	3.26	YES
L0001495	0	0.12480E-06	464627.2	3768417.2	306.9	3.50	3.49	3.26	YES
L0001496	0	0.12480E-06	464627.2	3768409.7	306.8	3.50	3.49	3.26	YES
L0001497	0	0.12480E-06	464627.1	3768402.2	306.7	3.50	3.49	3.26	YES
L0001498	0	0.12480E-06	464627.1	3768394.7	306.7	3.50	3.49	3.26	YES
L0001499	0	0.12480E-06	464627.1	3768387.2	306.6	3.50	3.49	3.26	YES
L0001500	0	0.12480E-06	464627.1	3768379.7	306.5	3.50	3.49	3.26	YES
L0001501	0	0.12480E-06	464627.0	3768372.2	306.4	3.50	3.49	3.26	YES
L0001502	0	0.12480E-06	464627.0	3768364.7	306.3	3.50	3.49	3.26	YES
L0001503	0	0.12480E-06	464627.0	3768357.2	306.2	3.50	3.49	3.26	YES
L0001504	0	0.12480E-06	464626.9	3768349.7	306.1	3.50	3.49	3.26	YES
L0001505	0	0.12480E-06	464626.9	3768342.2	306.0	3.50	3.49	3.26	YES
L0001506	0	0.12480E-06	464626.9	3768334.7	305.9	3.50	3.49	3.26	YES
L0001507	0	0.12480E-06	464626.9	3768327.2	305.9	3.50	3.49	3.26	YES
L0001508	0	0.12480E-06	464626.8	3768319.7	305.8	3.50	3.49	3.26	YES
L0001509	0	0.12480E-06	464626.8	3768312.2	305.7	3.50	3.49	3.26	YES
L0001510	0	0.12480E-06	464626.8	3768304.7	305.6	3.50	3.49	3.26	YES
L0001511	0	0.12480E-06	464626.7	3768297.2	305.5	3.50	3.49	3.26	YES

*** AERMOD - VERSION 19191 *** CWP Implemenation, Bloomington, 2040
 *** AERMET - VERSION 16216 *** (Existing Plus Project - Existing No Project) > 100 trucks/day

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 *** 11:03:51
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0001512	0	0.12480E-06	464626.7	3768289.7	305.4	3.50	3.49	3.26	YES	
L0001513	0	0.12480E-06	464626.7	3768282.2	305.3	3.50	3.49	3.26	YES	
L0001514	0	0.12480E-06	464626.7	3768274.7	305.2	3.50	3.49	3.26	YES	
L0001515	0	0.12480E-06	464626.6	3768267.2	305.2	3.50	3.49	3.26	YES	
L0001516	0	0.12480E-06	464626.6	3768259.7	305.1	3.50	3.49	3.26	YES	
L0001517	0	0.12480E-06	464626.6	3768252.2	305.0	3.50	3.49	3.26	YES	
L0001518	0	0.12480E-06	464626.5	3768244.7	304.9	3.50	3.49	3.26	YES	
L0001519	0	0.12480E-06	464626.5	3768237.2	304.8	3.50	3.49	3.26	YES	
L0001520	0	0.12480E-06	464626.5	3768229.7	304.7	3.50	3.49	3.26	YES	
L0001521	0	0.12480E-06	464626.5	3768222.2	304.6	3.50	3.49	3.26	YES	
L0001522	0	0.12480E-06	464626.4	3768214.7	304.5	3.50	3.49	3.26	YES	
L0001523	0	0.12480E-06	464626.4	3768207.2	304.4	3.50	3.49	3.26	YES	

Model Output - Bloomington CWP Implementation 2040

L0001524	0	0.12480E-06	464626.4	3768199.7	304.4	3.50	3.49	3.26	YES
L0001525	0	0.12480E-06	464626.3	3768192.2	304.3	3.50	3.49	3.26	YES
L0001526	0	0.12480E-06	464626.3	3768184.7	304.2	3.50	3.49	3.26	YES
L0001527	0	0.12480E-06	464626.3	3768177.2	304.1	3.50	3.49	3.26	YES
L0001528	0	0.12480E-06	464626.3	3768169.7	304.0	3.50	3.49	3.26	YES
L0001529	0	0.12480E-06	464626.2	3768162.2	303.9	3.50	3.49	3.26	YES
L0001530	0	0.12480E-06	464626.2	3768154.7	303.8	3.50	3.49	3.26	YES
L0001531	0	0.12480E-06	464626.2	3768147.2	303.7	3.50	3.49	3.26	YES
L0001532	0	0.12480E-06	464626.1	3768139.7	303.6	3.50	3.49	3.26	YES
L0001533	0	0.12480E-06	464626.1	3768132.2	303.6	3.50	3.49	3.26	YES
L0001534	0	0.12480E-06	464626.1	3768124.7	303.5	3.50	3.49	3.26	YES
L0001535	0	0.12480E-06	464626.1	3768117.2	303.4	3.50	3.49	3.26	YES
L0001536	0	0.12480E-06	464626.0	3768109.7	303.3	3.50	3.49	3.26	YES
L0001537	0	0.12480E-06	464626.0	3768102.2	303.2	3.50	3.49	3.26	YES
L0001538	0	0.12480E-06	464626.0	3768094.7	303.1	3.50	3.49	3.26	YES
L0001539	0	0.12480E-06	464625.9	3768087.2	303.0	3.50	3.49	3.26	YES
L0001540	0	0.12480E-06	464625.9	3768079.7	302.9	3.50	3.49	3.26	YES
L0001541	0	0.12480E-06	464625.9	3768072.2	302.8	3.50	3.49	3.26	YES
L0001542	0	0.12480E-06	464625.9	3768064.7	302.8	3.50	3.49	3.26	YES
L0001543	0	0.12480E-06	464625.8	3768057.2	302.7	3.50	3.49	3.26	YES
L0001544	0	0.12480E-06	464625.8	3768049.7	302.6	3.50	3.49	3.26	YES
L0001545	0	0.12480E-06	464625.8	3768042.2	302.5	3.50	3.49	3.26	YES
L0001546	0	0.12480E-06	464625.7	3768034.7	302.4	3.50	3.49	3.26	YES
L0001547	0	0.12480E-06	464625.3	3768027.2	302.3	3.50	3.49	3.26	YES
L0001548	0	0.12480E-06	464624.2	3768019.8	302.2	3.50	3.49	3.26	YES
L0001549	0	0.12480E-06	464623.2	3768012.4	302.1	3.50	3.49	3.26	YES
L0001550	0	0.12480E-06	464622.1	3768005.0	302.0	3.50	3.49	3.26	YES
L0001551	0	0.12480E-06	464621.3	3767997.5	301.9	3.49	3.49	3.26	YES

*** AERMOD - VERSION 19191 *** *** CWP Implemenation, Bloomington, 2040
 *** AERMET - VERSION 16216 *** *** (Existing Plus Project - Existing No Project) > 100 trucks/day

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0001552	0	0.12480E-06	464621.3	3767990.0	301.8	3.42	3.49	3.26	YES	
L0001553	0	0.12480E-06	464621.4	3767982.5	301.7	3.36	3.49	3.26	YES	
L0001554	0	0.12480E-06	464621.4	3767975.0	301.6	3.30	3.49	3.26	YES	
L0001555	0	0.12480E-06	464621.5	3767967.5	301.5	3.24	3.49	3.26	YES	
L0001556	0	0.12480E-06	464621.5	3767960.0	301.4	3.18	3.49	3.26	YES	
L0001557	0	0.12480E-06	464621.6	3767952.5	301.3	3.11	3.49	3.26	YES	
L0001558	0	0.12480E-06	464621.7	3767945.0	301.2	3.05	3.49	3.26	YES	
L0001559	0	0.12480E-06	464621.7	3767937.5	301.1	2.99	3.49	3.26	YES	
L0001560	0	0.12480E-06	464621.8	3767930.0	301.0	2.93	3.49	3.26	YES	
L0001561	0	0.12480E-06	464621.8	3767922.5	300.9	2.87	3.49	3.26	YES	

Model Output - Bloomington CWP Implementation 2040

L0001562	0	0.12480E-06	464621.9	3767915.0	300.8	2.80	3.49	3.26	YES
L0001563	0	0.12480E-06	464621.9	3767907.5	300.7	2.74	3.49	3.26	YES
L0001564	0	0.12480E-06	464622.0	3767900.0	300.6	2.68	3.49	3.26	YES
L0001565	0	0.12480E-06	464622.0	3767892.5	300.5	2.62	3.49	3.26	YES
L0001566	0	0.12480E-06	464622.1	3767885.0	300.4	2.56	3.49	3.26	YES
L0001567	0	0.12480E-06	464622.1	3767877.5	300.3	2.49	3.49	3.26	YES
L0001568	0	0.12480E-06	464622.2	3767870.0	300.2	2.43	3.49	3.26	YES
L0001569	0	0.12480E-06	464622.2	3767862.5	300.1	2.37	3.49	3.26	YES
L0001570	0	0.12480E-06	464622.3	3767855.0	300.0	2.31	3.49	3.26	YES
L0001571	0	0.12480E-06	464622.3	3767847.5	299.9	2.25	3.49	3.26	YES
L0001572	0	0.12480E-06	464622.4	3767840.0	299.8	2.18	3.49	3.26	YES
L0001573	0	0.12480E-06	464622.4	3767832.5	299.7	2.12	3.49	3.26	YES
L0001574	0	0.12480E-06	464622.5	3767825.0	299.6	2.06	3.49	3.26	YES
L0001575	0	0.12480E-06	464622.5	3767817.5	299.5	2.00	3.49	3.26	YES
L0001576	0	0.12480E-06	464622.6	3767810.0	299.4	1.94	3.49	3.26	YES
L0001577	0	0.12480E-06	464622.7	3767802.5	299.3	1.87	3.49	3.26	YES
L0001578	0	0.12480E-06	464622.7	3767795.0	299.2	1.81	3.49	3.26	YES
L0001579	0	0.12480E-06	464622.8	3767787.5	299.1	1.75	3.49	3.26	YES
L0001580	0	0.12480E-06	464622.8	3767780.0	299.0	1.69	3.49	3.26	YES
L0001581	0	0.12480E-06	464622.9	3767772.5	298.9	1.63	3.49	3.26	YES
L0001582	0	0.12480E-06	464622.9	3767765.0	298.8	1.56	3.49	3.26	YES
L0001583	0	0.12480E-06	464623.0	3767757.5	298.7	1.50	3.49	3.26	YES
L0001584	0	0.12480E-06	464623.0	3767750.0	298.6	1.44	3.49	3.26	YES
L0001585	0	0.12480E-06	464623.1	3767742.5	298.5	1.38	3.49	3.26	YES
L0001586	0	0.12480E-06	464623.1	3767735.0	298.4	1.31	3.49	3.26	YES
L0001587	0	0.12480E-06	464623.2	3767727.5	298.3	1.25	3.49	3.26	YES
L0001588	0	0.12480E-06	464623.2	3767720.0	298.2	1.19	3.49	3.26	YES
L0001589	0	0.12480E-06	464623.3	3767712.5	298.1	1.13	3.49	3.26	YES
L0001590	0	0.12480E-06	464623.3	3767705.0	297.9	1.07	3.49	3.26	YES
L0001591	0	0.12480E-06	464623.4	3767697.5	297.9	1.00	3.49	3.26	YES

*** AERMOD - VERSION 19191 *** *** CWP Implemenation, Bloomington, 2040

*** AERMET - VERSION 16216 *** *** (Existing Plus Project - Existing No Project) > 100 trucks/day

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0001592	0	0.12480E-06	464623.4	3767690.0	297.8	0.94	3.49	3.26	YES	
L0001593	0	0.12480E-06	464623.5	3767682.5	297.7	0.88	3.49	3.26	YES	
L0001594	0	0.12480E-06	464623.5	3767675.0	297.6	0.82	3.49	3.26	YES	
L0001595	0	0.12480E-06	464623.6	3767667.5	297.4	0.76	3.49	3.26	YES	
L0001596	0	0.12480E-06	464623.7	3767660.0	297.3	0.69	3.49	3.26	YES	
L0001597	0	0.12480E-06	464623.7	3767652.5	297.2	0.63	3.49	3.26	YES	
L0001598	0	0.12480E-06	464623.8	3767645.0	297.1	0.57	3.49	3.26	YES	
L0001599	0	0.12480E-06	464623.8	3767637.5	297.0	0.51	3.49	3.26	YES	

Model Output - Bloomington CWP Implementation 2040

L0001600	0	0.12480E-06	464623.9	3767630.0	296.9	0.45	3.49	3.26	YES
L0001601	0	0.12480E-06	464623.9	3767622.5	296.8	0.38	3.49	3.26	YES
L0001602	0	0.12480E-06	464624.0	3767615.0	296.7	0.32	3.49	3.26	YES
L0001603	0	0.12480E-06	464624.0	3767607.5	296.6	0.26	3.49	3.26	YES
L0001604	0	0.12480E-06	464624.1	3767600.0	296.5	0.20	3.49	3.26	YES
L0001605	0	0.12480E-06	464624.1	3767592.5	296.4	0.14	3.49	3.26	YES
L0001606	0	0.12480E-06	464624.2	3767585.0	296.3	0.07	3.49	3.26	YES
L0001607	0	0.12480E-06	464624.2	3767577.5	296.2	0.01	3.49	3.26	YES
L0001608	0	0.15450E-06	464621.3	3767569.3	296.1	3.50	3.49	3.26	YES
L0001609	0	0.15450E-06	464621.3	3767561.8	296.0	3.50	3.49	3.26	YES
L0001610	0	0.15450E-06	464621.3	3767554.3	295.9	3.50	3.49	3.26	YES
L0001611	0	0.15450E-06	464621.3	3767546.8	295.8	3.50	3.49	3.26	YES
L0001612	0	0.15450E-06	464621.3	3767539.3	295.7	3.50	3.49	3.26	YES
L0001613	0	0.15450E-06	464621.3	3767531.8	295.6	3.50	3.49	3.26	YES
L0001614	0	0.15450E-06	464621.3	3767524.3	295.5	3.50	3.49	3.26	YES
L0001615	0	0.15450E-06	464621.3	3767516.8	295.4	3.50	3.49	3.26	YES
L0001616	0	0.15450E-06	464621.3	3767509.3	295.3	3.50	3.49	3.26	YES
L0001617	0	0.15450E-06	464621.3	3767501.8	295.2	3.50	3.49	3.26	YES
L0001618	0	0.15450E-06	464621.3	3767494.3	295.1	3.50	3.49	3.26	YES
L0001619	0	0.15450E-06	464621.3	3767486.8	295.0	3.50	3.49	3.26	YES
L0001620	0	0.15450E-06	464621.3	3767479.3	294.9	3.50	3.49	3.26	YES
L0001621	0	0.15450E-06	464621.3	3767471.8	294.8	3.50	3.49	3.26	YES
L0001622	0	0.15450E-06	464621.3	3767464.3	294.7	3.50	3.49	3.26	YES
L0001623	0	0.15450E-06	464621.3	3767456.8	294.6	3.50	3.49	3.26	YES
L0001624	0	0.15450E-06	464621.3	3767449.3	294.5	3.50	3.49	3.26	YES
L0001625	0	0.15450E-06	464621.3	3767441.8	294.4	3.50	3.49	3.26	YES
L0001626	0	0.15450E-06	464621.3	3767434.3	294.3	3.50	3.49	3.26	YES
L0001627	0	0.15450E-06	464621.3	3767426.8	294.2	3.50	3.49	3.26	YES
L0001628	0	0.15450E-06	464621.3	3767419.3	294.1	3.50	3.49	3.26	YES
L0001629	0	0.15450E-06	464621.3	3767411.8	294.0	3.50	3.49	3.26	YES
L0001630	0	0.15450E-06	464621.3	3767404.3	293.9	3.50	3.49	3.26	YES
L0001631	0	0.15450E-06	464621.3	3767396.8	293.8	3.50	3.49	3.26	YES

*** AERMOD - VERSION 19191 *** *** CWP Implemenation, Bloomington, 2040 ***
 *** AERMET - VERSION 16216 *** *** (Existing Plus Project - Existing No Project) > 100 trucks/day ***

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0001632	0	0.15450E-06	464621.3	3767389.3	293.7	3.50	3.49	3.26	YES	
L0001633	0	0.15450E-06	464621.3	3767381.8	293.6	3.50	3.49	3.26	YES	
L0001634	0	0.15450E-06	464621.3	3767374.3	293.5	3.50	3.49	3.26	YES	
L0001635	0	0.15450E-06	464621.3	3767366.8	293.4	3.50	3.49	3.26	YES	
L0001636	0	0.15450E-06	464621.3	3767359.3	293.3	3.50	3.49	3.26	YES	
L0001637	0	0.15450E-06	464621.3	3767351.8	293.2	3.50	3.49	3.26	YES	

Model Output - Bloomington
CWP Implementation 2040

L0001638	0	0.15450E-06	464621.3	3767344.3	293.1	3.50	3.49	3.26	YES
L0001639	0	0.15450E-06	464621.3	3767336.8	293.0	3.50	3.49	3.26	YES
L0001640	0	0.15450E-06	464621.3	3767329.3	292.9	3.50	3.49	3.26	YES
L0001641	0	0.15450E-06	464621.3	3767321.8	292.8	3.50	3.49	3.26	YES
L0001642	0	0.15450E-06	464621.3	3767314.3	292.7	3.50	3.49	3.26	YES
L0001643	0	0.15450E-06	464621.3	3767306.8	292.6	3.50	3.49	3.26	YES
L0001644	0	0.15450E-06	464621.3	3767299.3	292.5	3.50	3.49	3.26	YES
L0001645	0	0.15450E-06	464621.3	3767291.8	292.4	3.50	3.49	3.26	YES
L0001646	0	0.15450E-06	464621.3	3767284.3	292.3	3.50	3.49	3.26	YES
L0001647	0	0.15450E-06	464621.3	3767276.8	292.2	3.50	3.49	3.26	YES
L0001648	0	0.15450E-06	464621.3	3767269.3	292.1	3.50	3.49	3.26	YES
L0001649	0	0.15450E-06	464621.3	3767261.8	292.0	3.50	3.49	3.26	YES
L0001650	0	0.15450E-06	464621.3	3767254.3	291.9	3.50	3.49	3.26	YES
L0001651	0	0.15450E-06	464621.3	3767246.8	291.8	3.50	3.49	3.26	YES
L0001652	0	0.15450E-06	464621.3	3767239.3	291.7	3.50	3.49	3.26	YES
L0001653	0	0.15450E-06	464621.2	3767231.8	291.8	3.50	3.49	3.26	YES
L0001654	0	0.15450E-06	464621.2	3767224.3	291.9	3.50	3.49	3.26	YES
L0001655	0	0.15450E-06	464621.1	3767216.8	291.9	3.50	3.49	3.26	YES
L0001656	0	0.15450E-06	464621.1	3767209.3	292.0	3.50	3.49	3.26	YES
L0001657	0	0.15450E-06	464621.0	3767201.8	292.1	3.50	3.49	3.26	YES
L0001658	0	0.15450E-06	464621.0	3767194.3	292.2	3.50	3.49	3.26	YES
L0001659	0	0.15450E-06	464620.9	3767186.8	292.2	3.50	3.49	3.26	YES
L0001660	0	0.15450E-06	464620.9	3767179.3	292.3	3.50	3.49	3.26	YES
L0001661	0	0.15450E-06	464620.8	3767171.8	292.4	3.50	3.49	3.26	YES
L0001662	0	0.15450E-06	464620.8	3767164.3	292.4	3.50	3.49	3.26	YES
L0001663	0	0.15450E-06	464620.7	3767156.8	292.5	3.50	3.49	3.26	YES
L0001664	0	0.15450E-06	464620.7	3767149.3	292.6	3.50	3.49	3.26	YES
L0001665	0	0.15450E-06	464620.6	3767141.8	292.6	3.50	3.49	3.26	YES
L0001666	0	0.15450E-06	464620.6	3767134.3	292.7	3.50	3.49	3.26	YES
L0001667	0	0.15450E-06	464620.5	3767126.8	292.8	3.50	3.49	3.26	YES
L0001668	0	0.15450E-06	464620.5	3767119.3	292.8	3.50	3.49	3.26	YES
L0001669	0	0.15450E-06	464620.4	3767111.8	292.9	3.50	3.49	3.26	YES
L0001670	0	0.15450E-06	464620.4	3767104.3	293.0	3.50	3.49	3.26	YES
L0001671	0	0.15450E-06	464620.3	3767096.8	293.1	3.50	3.49	3.26	YES

Model Output - Bloomington CWP Implementation 2040

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*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER	EMISSION RATE			BASE	RELEASE	INIT.	INIT.	URBAN	EMISSION RATE
	PART.	(GRAMS/SEC)	X	Y	ELEV.	HEIGHT	SY	SZ	SOURCE	SCALAR VARY
	CATS.		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)		BY
L0001672	0	0.15450E-06	464620.3	3767089.3	293.1	3.50	3.49	3.26	YES	
L0001673	0	0.15450E-06	464620.2	3767081.8	293.2	3.50	3.49	3.26	YES	
L0001674	0	0.15450E-06	464620.2	3767074.3	293.3	3.50	3.49	3.26	YES	
L0001675	0	0.15450E-06	464620.1	3767066.8	293.3	3.50	3.49	3.26	YES	
L0001676	0	0.15450E-06	464620.1	3767059.3	293.4	3.50	3.49	3.26	YES	
L0001677	0	0.15450E-06	464620.0	3767051.8	293.5	3.50	3.49	3.26	YES	
L0001678	0	0.15450E-06	464620.0	3767044.3	293.5	3.50	3.49	3.26	YES	
L0001679	0	0.15450E-06	464619.9	3767036.8	293.6	3.50	3.49	3.26	YES	
L0001680	0	0.15450E-06	464619.9	3767029.3	293.7	3.50	3.49	3.26	YES	
L0001681	0	0.15450E-06	464619.8	3767021.8	293.7	3.50	3.49	3.26	YES	
L0001682	0	0.15450E-06	464619.8	3767014.3	293.8	3.49	3.49	3.26	YES	
L0001683	0	0.15450E-06	464619.8	3767006.8	293.7	3.40	3.49	3.26	YES	
L0001684	0	0.15450E-06	464619.9	3766999.3	293.7	3.30	3.49	3.26	YES	
L0001685	0	0.15450E-06	464619.9	3766991.8	293.6	3.20	3.49	3.26	YES	
L0001686	0	0.15450E-06	464620.0	3766984.3	293.6	3.10	3.49	3.26	YES	
L0001687	0	0.15450E-06	464620.0	3766976.8	293.5	3.00	3.49	3.26	YES	
L0001688	0	0.15450E-06	464620.0	3766969.3	293.4	2.90	3.49	3.26	YES	
L0001689	0	0.15450E-06	464620.1	3766961.8	293.4	2.80	3.49	3.26	YES	
L0001690	0	0.15450E-06	464620.1	3766954.3	293.3	2.70	3.49	3.26	YES	
L0001691	0	0.15450E-06	464620.2	3766946.8	293.2	2.60	3.49	3.26	YES	
L0001692	0	0.15450E-06	464620.2	3766939.3	293.2	2.50	3.49	3.26	YES	
L0001693	0	0.15450E-06	464620.3	3766931.8	293.1	2.40	3.49	3.26	YES	
L0001694	0	0.15450E-06	464620.3	3766924.3	293.0	2.30	3.49	3.26	YES	
L0001695	0	0.15450E-06	464620.3	3766916.8	293.0	2.20	3.49	3.26	YES	
L0001696	0	0.15450E-06	464620.4	3766909.3	292.9	2.10	3.49	3.26	YES	
L0001697	0	0.15450E-06	464620.4	3766901.8	292.8	2.00	3.49	3.26	YES	
L0001698	0	0.15450E-06	464620.5	3766894.3	292.8	1.91	3.49	3.26	YES	
L0001699	0	0.15450E-06	464620.5	3766886.8	292.7	1.81	3.49	3.26	YES	
L0001700	0	0.15450E-06	464620.5	3766879.3	292.6	1.71	3.49	3.26	YES	
L0001701	0	0.15450E-06	464620.6	3766871.8	292.6	1.61	3.49	3.26	YES	
L0001702	0	0.15450E-06	464620.6	3766864.3	292.5	1.51	3.49	3.26	YES	
L0001703	0	0.15450E-06	464620.7	3766856.8	292.4	1.41	3.49	3.26	YES	
L0001704	0	0.15450E-06	464620.7	3766849.3	292.4	1.31	3.49	3.26	YES	
L0001705	0	0.15450E-06	464620.8	3766841.8	292.3	1.21	3.49	3.26	YES	
L0001706	0	0.15450E-06	464620.8	3766834.3	292.2					

Model Output - Bloomington CWP Implementation 2040

L0001710 0 0.15450E-06 464621.0 3766804.3 292.0 0.71 3.49 3.26 YES
 L0001711 0 0.15450E-06 464621.0 3766796.8 291.9 0.61 3.49 3.26 YES
 *** AERMOD - VERSION 19191 *** *** CWP Implementation, Bloomington, 2040
 *** AERMET - VERSION 16216 *** *** (Existing Plus Project - Existing No Project) > 100 trucks/day

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0001712	0	0.15450E-06	464621.1	3766789.3	291.9	0.52	3.49	3.26	YES	
L0001713	0	0.15450E-06	464621.1	3766781.8	291.8	0.42	3.49	3.26	YES	
L0001714	0	0.15450E-06	464621.1	3766774.3	291.7	0.32	3.49	3.26	YES	
L0001715	0	0.15450E-06	464621.2	3766766.8	291.7	0.22	3.49	3.26	YES	
L0001716	0	0.15450E-06	464621.2	3766759.3	291.6	0.12	3.49	3.26	YES	
L0001717	0	0.15450E-06	464621.3	3766751.8	291.5	0.02	3.49	3.26	YES	

Model Output - Bloomington
CWP Implementation 2040

*** AERMOD - VERSION 19191 *** *** CWP Implemenation, Bloomington, 2040 *** 05/22/20
*** AERMET - VERSION 16216 *** *** (Existing Plus Project - Existing No Project) > 100 trucks/day *** 11:03:51
*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U* PAGE 21

*** SOURCE IDs DEFINING SOURCE GROUPS ***

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

ALL	All Volume Sources
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*** AERMOD - VERSION 19191 *** *** CWP Implemenation, Bloomington, 2040 *** 05/22/20
*** AERMET - VERSION 16216 *** *** (Existing Plus Project - Existing No Project) > 100 trucks/day *** 11:03:51
*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U* PAGE 26

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
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	2035210.	
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Model Output - Bloomington CWP Implementation 2040

*** AERMOD - VERSION 19191 *** *** CWP Implemenation, Bloomington, 2040
*** AERMET - VERSION 16216 *** *** (Existing Plus Project - Existing No Project) > 100 trucks/day
*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(461337.2, 3769855.2,	338.3,	338.3,	0.0);	(461393.4, 3769790.7,	337.2,	337.2,	0.0);
(461427.5, 3769777.1,	336.9,	336.9,	0.0);	(461477.5, 3769777.1,	337.0,	337.0,	0.0);
(461678.1, 3769799.8,	336.4,	336.4,	0.0);	(461728.1, 3769799.8,	336.4,	336.4,	0.0);
(461778.1, 3769799.8,	336.5,	336.5,	0.0);	(461828.1, 3769799.8,	336.7,	336.7,	0.0);
(461878.1, 3769799.8,	336.5,	336.5,	0.0);	(461928.1, 3769799.8,	336.3,	336.3,	0.0);
(461977.5, 3769804.8,	336.0,	336.0,	0.0);	(462027.5, 3769804.8,	336.1,	336.1,	0.0);
(462077.5, 3769804.8,	335.8,	335.8,	0.0);	(462127.5, 3769804.8,	336.1,	336.1,	0.0);
(462177.5, 3769804.8,	335.9,	335.9,	0.0);	(462227.5, 3769804.8,	335.8,	335.8,	0.0);
(462277.5, 3769804.8,	335.8,	335.8,	0.0);	(461384.6, 3769854.8,	338.1,	338.1,	0.0);
(461377.5, 3769827.1,	337.7,	337.7,	0.0);	(461427.5, 3769827.1,	337.5,	337.5,	0.0);
(461477.5, 3769827.1,	337.7,	337.7,	0.0);	(461627.5, 3769827.1,	336.6,	336.6,	0.0);
(461677.5, 3769827.1,	336.7,	336.7,	0.0);	(461727.5, 3769827.1,	336.7,	336.7,	0.0);
(461777.5, 3769827.1,	337.0,	337.0,	0.0);	(461827.5, 3769827.1,	336.9,	336.9,	0.0);
(461877.5, 3769827.1,	336.8,	336.8,	0.0);	(461927.5, 3769827.1,	336.7,	336.7,	0.0);
(461977.5, 3769827.1,	336.4,	336.4,	0.0);	(462027.5, 3769827.1,	336.4,	336.4,	0.0);
(462077.5, 3769827.1,	336.1,	336.1,	0.0);	(462127.5, 3769827.1,	336.4,	336.4,	0.0);
(462177.5, 3769827.1,	336.0,	336.0,	0.0);	(462227.5, 3769827.1,	335.9,	335.9,	0.0);
(462377.5, 3769827.1,	337.2,	337.2,	0.0);	(462427.5, 3769827.1,	336.8,	336.8,	0.0);
(462477.5, 3769827.1,	336.5,	336.5,	0.0);	(462727.5, 3769827.1,	336.4,	336.4,	0.0);
(462777.5, 3769827.1,	336.0,	336.0,	0.0);	(462820.2, 3769853.1,	336.2,	336.2,	0.0);
(462870.2, 3769853.1,	335.5,	335.5,	0.0);	(461387.7, 3769893.0,	338.7,	338.7,	0.0);
(461427.5, 3769877.1,	338.3,	338.3,	0.0);	(461477.5, 3769877.1,	338.1,	338.1,	0.0);
(461627.5, 3769877.1,	337.2,	337.2,	0.0);	(461677.5, 3769877.1,	337.2,	337.2,	0.0);
(461727.5, 3769877.1,	337.3,	337.3,	0.0);	(461777.5, 3769877.1,	337.4,	337.4,	0.0);
(461827.5, 3769877.1,	337.4,	337.4,	0.0);	(461977.7, 3769853.4,	336.8,	336.8,	0.0);
(462027.7, 3769853.4,	336.7,	336.7,	0.0);	(462077.7, 3769853.4,	336.7,	336.7,	0.0);
(462127.7, 3769853.4,	336.7,	336.7,	0.0);	(462177.7, 3769853.4,	336.2,	336.2,	0.0);
(462377.5, 3769877.1,	337.4,	337.4,	0.0);	(462427.5, 3769877.1,	337.4,	337.4,	0.0);
(462477.5, 3769877.1,	337.0,	337.0,	0.0);	(462727.5, 3769877.1,	336.9,	336.9,	0.0);
(462777.5, 3769877.1,	336.6,	336.6,	0.0);	(462827.5, 3769877.1,	336.4,	336.4,	0.0);
(462877.5, 3769877.1,	335.6,	335.6,	0.0);	(461377.5, 3769927.1,	339.3,	339.3,	0.0);
(461427.5, 3769927.1,	339.0,	339.0,	0.0);	(461477.5, 3769927.1,	338.8,	338.8,	0.0);
(461627.5, 3769927.1,	337.7,	337.7,	0.0);	(461677.5, 3769927.1,	337.8,	337.8,	0.0);
(461727.5, 3769927.1,	337.9,	337.9,	0.0);	(461777.5, 3769927.1,	338.1,	338.1,	0.0);
(461827.5, 3769927.1,	338.1,	338.1,	0.0);	(462127.5, 3769927.1,	337.4,	337.4,	0.0);
(462227.5, 3769862.1,	336.4,	336.4,	0.0);	(462377.5, 3769927.1,	338.5,	338.5,	0.0);
(462427.5, 3769927.1,	338.2,	338.2,	0.0);	(462477.5, 3769927.1,	337.8,	337.8,	0.0);
(462527.5, 3769927.1,	337.8,	337.8,	0.0);	(462727.5, 3769927.1,	337.6,	337.6,	0.0);
(462777.5, 3769927.1,	337.2,	337.2,	0.0);	(462827.5, 3769927.1,	337.0,	337.0,	0.0);
(462877.5, 3769927.1,	336.3,	336.3,	0.0);	(461377.5, 3769977.1,	340.1,	340.1,	0.0);
(461627.5, 3769977.1,	338.4,	338.4,	0.0);	(461677.5, 3769977.1,	338.7,	338.7,	0.0);
(461727.5, 3769977.1,	338.6,	338.6,	0.0);	(461777.5, 3769977.1,	338.8,	338.8,	0.0);

Model Output - Bloomington CWP Implementation 2040

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( 461827.5, 3769977.1, 338.8, 338.8, 0.0); ( 462127.5, 3769977.1, 338.0, 338.0, 0.0);
( 462377.5, 3769977.1, 339.3, 339.3, 0.0); ( 462427.5, 3769977.1, 338.8, 338.8, 0.0);
( 462477.5, 3769977.1, 338.4, 338.4, 0.0); ( 462527.5, 3769977.1, 338.4, 338.4, 0.0);
*** AERMOD - VERSION 19191 *** *** CWP Implemenation, Bloomington, 2040 *** 05/22/20
*** AERMET - VERSION 16216 *** *** (Existing Plus Project - Existing No Project) > 100 trucks/day *** 11:03:51
*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U* *** PAGE 32

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*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(462727.5, 3769977.1, 338.1, 338.1, 0.0);	(462777.5, 3769977.1, 337.9, 337.9, 0.0);
(462827.5, 3769977.1, 337.6, 337.6, 0.0);	(462877.5, 3769977.1, 337.0, 337.0, 0.0);
(461627.5, 3770027.1, 339.5, 339.5, 0.0);	(461677.5, 3770027.1, 339.8, 339.8, 0.0);
(461727.5, 3770027.1, 339.6, 339.6, 0.0);	(461777.5, 3770027.1, 339.8, 339.8, 0.0);
(461827.5, 3770027.1, 339.8, 339.8, 0.0);	(462127.5, 3770027.1, 339.1, 339.1, 0.0);
(462377.5, 3770027.1, 339.5, 339.5, 0.0);	(462427.5, 3770027.1, 339.5, 339.5, 0.0);
(462477.5, 3770027.1, 339.4, 339.4, 0.0);	(462527.5, 3770027.1, 339.3, 339.3, 0.0);
(462727.5, 3770027.1, 338.9, 338.9, 0.0);	(462777.5, 3770027.1, 338.7, 338.7, 0.0);
(462827.5, 3770027.1, 338.4, 338.4, 0.0);	(462877.5, 3770027.1, 337.9, 337.9, 0.0);
(463618.2, 3769882.1, 330.3, 335.2, 0.0);	(463668.2, 3769882.1, 331.1, 331.1, 0.0);
(463718.2, 3769882.1, 330.8, 330.8, 0.0);	(463768.2, 3769882.1, 331.1, 331.1, 0.0);
(463818.2, 3769882.1, 331.3, 331.3, 0.0);	(463518.2, 3769932.1, 335.9, 335.9, 0.0);
(463568.2, 3769932.1, 334.9, 334.9, 0.0);	(463618.2, 3769932.1, 332.5, 332.5, 0.0);
(463668.2, 3769932.1, 332.3, 332.3, 0.0);	(463718.2, 3769932.1, 332.0, 332.0, 0.0);
(463768.2, 3769932.1, 332.0, 332.0, 0.0);	(463818.2, 3769932.1, 331.9, 331.9, 0.0);
(463518.2, 3769982.1, 336.2, 336.2, 0.0);	(463568.2, 3769982.1, 334.1, 334.1, 0.0);
(463618.2, 3769982.1, 333.4, 333.4, 0.0);	(463668.2, 3769982.1, 333.0, 333.0, 0.0);
(463718.2, 3769982.1, 333.3, 333.3, 0.0);	(463768.2, 3769982.1, 332.8, 332.8, 0.0);
(463818.2, 3769982.1, 333.1, 333.1, 0.0);	(463516.5, 3770009.2, 335.2, 335.2, 0.0);
(463716.5, 3770009.2, 333.7, 333.7, 0.0);	(463766.5, 3770009.2, 333.7, 333.7, 0.0);
(463816.5, 3770009.2, 333.8, 333.8, 0.0);	(463118.2, 3770082.1, 337.9, 337.9, 0.0);
(463168.2, 3770082.1, 338.0, 338.0, 0.0);	(463668.2, 3770082.1, 334.8, 334.8, 0.0);
(463718.2, 3770082.1, 334.7, 334.7, 0.0);	(463768.2, 3770082.1, 334.6, 334.6, 0.0);
(463818.2, 3770082.1, 334.7, 334.7, 0.0);	(463868.2, 3770082.1, 334.6, 334.6, 0.0);
(463918.2, 3770082.1, 334.5, 334.5, 0.0);	(463968.2, 3770082.1, 334.3, 334.3, 0.0);
(464018.2, 3770082.1, 333.6, 333.6, 0.0);	(464068.2, 3770082.1, 333.4, 333.4, 0.0);
(464118.2, 3770082.1, 333.6, 333.6, 0.0);	(464168.2, 3770082.1, 332.9, 332.9, 0.0);
(464218.2, 3770082.1, 332.2, 332.2, 0.0);	(464268.2, 3770082.1, 331.9, 331.9, 0.0);
(464318.2, 3770082.1, 331.4, 331.4, 0.0);	(463118.2, 3770132.1, 338.8, 338.8, 0.0);
(463168.2, 3770132.1, 338.5, 338.5, 0.0);	(463218.2, 3770132.1, 338.5, 338.5, 0.0);
(463268.2, 3770132.1, 338.3, 338.3, 0.0);	(463318.2, 3770132.1, 337.6, 337.6, 0.0);
(463368.2, 3770132.1, 336.8, 336.8, 0.0);	(463418.2, 3770132.1, 336.2, 336.2, 0.0);
(463668.2, 3770132.1, 335.8, 335.8, 0.0);	(463718.2, 3770132.1, 335.5, 335.5, 0.0);
(463768.2, 3770132.1, 335.2, 335.2, 0.0);	(463818.2, 3770132.1, 335.3, 335.3, 0.0);
(463868.2, 3770132.1, 335.3, 335.3, 0.0);	(463918.2, 3770132.1, 335.1, 335.1, 0.0);
(463968.2, 3770132.1, 334.8, 334.8, 0.0);	(464018.2, 3770132.1, 334.2, 334.2, 0.0);
(464068.2, 3770132.1, 334.0, 334.0, 0.0);	(464118.2, 3770132.1, 334.4, 334.4, 0.0);
(464168.2, 3770132.1, 333.7, 333.7, 0.0);	(464218.2, 3770132.1, 332.9, 332.9, 0.0);
(464268.2, 3770132.1, 332.4, 332.4, 0.0);	(464318.2, 3770132.1, 332.3, 332.3, 0.0);

Model Output - Bloomington CWP Implementation 2040

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( 463118.2, 3770182.1, 339.3, 339.3, 0.0); ( 463168.2, 3770182.1, 338.9, 338.9, 0.0);
( 463218.2, 3770182.1, 338.8, 338.8, 0.0); ( 463268.2, 3770182.1, 338.4, 338.4, 0.0);
( 463318.2, 3770182.1, 337.8, 337.8, 0.0); ( 463368.2, 3770182.1, 337.0, 337.0, 0.0);
( 463418.2, 3770182.1, 336.5, 336.5, 0.0); ( 463668.2, 3770182.1, 336.7, 336.7, 0.0);
( 463718.2, 3770182.1, 336.2, 336.2, 0.0); ( 463768.2, 3770182.1, 336.1, 336.1, 0.0);
( 463818.2, 3770182.1, 336.0, 336.0, 0.0); ( 463868.2, 3770182.1, 336.0, 336.0, 0.0);
*** AERMOD - VERSION 19191 *** *** CWP Implemenation, Bloomington, 2040 *** 05/22/20
*** AERMET - VERSION 16216 *** *** (Existing Plus Project - Existing No Project) > 100 trucks/day *** 11:03:51
*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U* *** PAGE 33
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*** DISCRETE CARTESIAN RECEPTORS *** (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG) (METERS)

```
( 463918.2, 3770182.1, 335.7, 335.7, 0.0); ( 463968.2, 3770182.1, 335.4, 335.4, 0.0);
( 464018.2, 3770182.1, 334.9, 334.9, 0.0); ( 464068.2, 3770182.1, 334.7, 334.7, 0.0);
( 464118.2, 3770182.1, 335.0, 335.0, 0.0); ( 464168.2, 3770182.1, 334.3, 334.3, 0.0);
( 464218.2, 3770182.1, 333.5, 333.5, 0.0); ( 464268.2, 3770182.1, 333.1, 333.1, 0.0);
( 464318.2, 3770182.1, 333.0, 333.0, 0.0); ( 463118.2, 3770232.1, 339.9, 339.9, 0.0);
( 463168.2, 3770232.1, 339.5, 339.5, 0.0); ( 463218.2, 3770232.1, 339.3, 339.3, 0.0);
( 463268.2, 3770232.1, 338.9, 338.9, 0.0); ( 463318.2, 3770232.1, 338.7, 338.7, 0.0);
( 463368.2, 3770232.1, 337.7, 337.7, 0.0); ( 463418.2, 3770232.1, 337.2, 337.2, 0.0);
( 463635.9, 3770316.8, 339.7, 339.7, 0.0); ( 463668.2, 3770232.1, 337.7, 337.7, 0.0);
( 463718.2, 3770232.1, 336.9, 336.9, 0.0); ( 463768.2, 3770232.1, 336.8, 336.8, 0.0);
( 463818.2, 3770232.1, 336.7, 336.7, 0.0); ( 463868.2, 3770232.1, 336.6, 336.6, 0.0);
( 463918.2, 3770232.1, 336.2, 336.2, 0.0); ( 463968.2, 3770232.1, 335.9, 335.9, 0.0);
( 464018.2, 3770232.1, 335.4, 335.4, 0.0); ( 464068.2, 3770232.1, 335.5, 335.5, 0.0);
( 464118.2, 3770232.1, 335.2, 335.2, 0.0); ( 464168.2, 3770232.1, 334.7, 334.7, 0.0);
( 464218.2, 3770232.1, 333.9, 333.9, 0.0); ( 464268.2, 3770232.1, 333.9, 333.9, 0.0);
( 464318.2, 3770232.1, 333.2, 333.2, 0.0); ( 461105.1, 3768860.0, 327.0, 583.2, 0.0);
( 461155.1, 3768860.0, 327.0, 583.2, 0.0); ( 461205.1, 3768860.0, 327.1, 583.2, 0.0);
( 461255.1, 3768860.0, 326.2, 583.2, 0.0); ( 461305.1, 3768860.0, 326.2, 573.5, 0.0);
( 461355.1, 3768860.0, 326.0, 573.0, 0.0); ( 461405.1, 3768860.0, 325.8, 565.4, 0.0);
( 461455.1, 3768860.0, 325.1, 565.4, 0.0); ( 461505.1, 3768860.0, 325.4, 565.4, 0.0);
( 461555.1, 3768860.0, 325.0, 565.4, 0.0); ( 461605.1, 3768860.0, 324.8, 565.4, 0.0);
( 461655.1, 3768860.0, 324.9, 565.4, 0.0); ( 461705.1, 3768860.0, 324.7, 565.4, 0.0);
( 461755.1, 3768860.0, 324.5, 565.4, 0.0); ( 461805.1, 3768860.0, 324.2, 565.4, 0.0);
( 461855.1, 3768860.0, 324.9, 565.4, 0.0); ( 461905.1, 3768860.0, 325.1, 565.4, 0.0);
( 461955.1, 3768860.0, 325.1, 565.4, 0.0); ( 462005.1, 3768860.0, 325.2, 565.4, 0.0);
( 462055.1, 3768860.0, 324.2, 565.4, 0.0); ( 462105.1, 3768860.0, 323.9, 564.1, 0.0);
( 462155.1, 3768860.0, 324.0, 564.1, 0.0); ( 462205.1, 3768860.0, 323.4, 564.1, 0.0);
( 462255.1, 3768860.0, 323.5, 564.1, 0.0); ( 462305.1, 3768860.0, 323.7, 564.1, 0.0);
( 462355.1, 3768860.0, 324.1, 324.1, 0.0); ( 462405.1, 3768860.0, 324.3, 324.3, 0.0);
( 462455.1, 3768860.0, 324.4, 324.4, 0.0); ( 462505.1, 3768860.0, 324.6, 324.6, 0.0);
( 462555.1, 3768860.0, 324.4, 324.4, 0.0); ( 462605.1, 3768860.0, 323.9, 323.9, 0.0);
( 461105.1, 3768910.0, 327.7, 565.4, 0.0); ( 461155.1, 3768910.0, 327.6, 565.4, 0.0);
( 461205.1, 3768910.0, 327.6, 565.4, 0.0); ( 461255.1, 3768910.0, 327.0, 565.4, 0.0);
( 461305.1, 3768910.0, 326.8, 565.4, 0.0); ( 461355.1, 3768910.0, 326.4, 565.4, 0.0);
( 461405.1, 3768910.0, 326.4, 565.4, 0.0); ( 461455.1, 3768910.0, 326.2, 565.4, 0.0);
( 461505.1, 3768910.0, 325.9, 565.4, 0.0); ( 461555.1, 3768910.0, 325.6, 565.4, 0.0);
```

Model Output - Bloomington CWP Implementation 2040

(461605.1, 3768910.0,	325.3,	565.4,	0.0);	(461655.1, 3768910.0,	325.2,	565.4,	0.0);
(461705.1, 3768910.0,	325.2,	565.4,	0.0);	(461755.1, 3768910.0,	325.0,	565.4,	0.0);
(461805.1, 3768910.0,	324.9,	565.4,	0.0);	(461855.1, 3768910.0,	325.4,	565.4,	0.0);
(461905.1, 3768910.0,	325.7,	565.4,	0.0);	(461955.1, 3768910.0,	325.7,	565.4,	0.0);
(462005.1, 3768910.0,	325.4,	564.1,	0.0);	(462055.1, 3768910.0,	324.7,	564.1,	0.0);
(462105.1, 3768910.0,	324.4,	564.1,	0.0);	(462155.1, 3768910.0,	324.3,	564.1,	0.0);
(462205.1, 3768910.0,	324.2,	564.1,	0.0);	(462255.1, 3768910.0,	324.0,	564.1,	0.0);
(462305.1, 3768910.0,	324.5,	324.5,	0.0);	(462355.1, 3768910.0,	324.9,	324.9,	0.0);
(462405.1, 3768910.0,	324.9,	324.9,	0.0);	(462455.1, 3768910.0,	325.1,	325.1,	0.0);
*** AERMOD - VERSION 19191 ***	*** CWP Implemenation, Bloomington, 2040	***	05/22/20				
*** AERMET - VERSION 16216 ***	*** (Existing Plus Project - Existing No Project) > 100 trucks/day	***	11:03:51				
*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*			PAGE 34				
*** DISCRETE CARTESIAN RECEPTORS ***							
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)							
(METERS)							
(462505.1, 3768910.0,	325.2,	325.2,	0.0);	(462555.1, 3768910.0,	325.2,	325.2,	0.0);
(462605.1, 3768910.0,	324.7,	324.7,	0.0);	(461105.1, 3768960.0,	328.3,	565.4,	0.0);
(461155.1, 3768960.0,	328.3,	565.4,	0.0);	(461205.1, 3768960.0,	328.1,	565.4,	0.0);
(461255.1, 3768960.0,	327.5,	565.4,	0.0);	(461305.1, 3768960.0,	327.4,	565.4,	0.0);
(461355.1, 3768960.0,	326.9,	565.4,	0.0);	(461405.1, 3768960.0,	327.0,	565.4,	0.0);
(461455.1, 3768960.0,	326.7,	565.4,	0.0);	(461505.1, 3768960.0,	326.6,	565.4,	0.0);
(461555.1, 3768960.0,	326.1,	565.4,	0.0);	(461605.1, 3768960.0,	326.4,	565.4,	0.0);
(461655.1, 3768960.0,	326.6,	565.4,	0.0);	(461705.1, 3768960.0,	326.6,	565.4,	0.0);
(461755.1, 3768960.0,	326.3,	565.4,	0.0);	(461805.1, 3768960.0,	325.5,	565.4,	0.0);
(461855.1, 3768960.0,	326.4,	565.4,	0.0);	(461905.1, 3768960.0,	326.4,	564.1,	0.0);
(461955.1, 3768960.0,	326.1,	564.1,	0.0);	(462005.1, 3768960.0,	325.7,	564.1,	0.0);
(462055.1, 3768960.0,	324.8,	564.1,	0.0);	(462105.1, 3768960.0,	324.7,	564.1,	0.0);
(462155.1, 3768960.0,	325.0,	564.1,	0.0);	(462205.1, 3768960.0,	324.9,	324.9,	0.0);
(462255.1, 3768960.0,	324.2,	324.2,	0.0);	(462305.1, 3768960.0,	324.4,	324.4,	0.0);
(462355.1, 3768960.0,	324.7,	324.7,	0.0);	(462405.1, 3768960.0,	324.8,	324.8,	0.0);
(462455.1, 3768960.0,	325.0,	325.0,	0.0);	(462505.1, 3768960.0,	325.3,	325.3,	0.0);
(462555.1, 3768960.0,	325.4,	325.4,	0.0);	(462605.1, 3768960.0,	325.4,	325.4,	0.0);
(461105.1, 3769010.0,	328.9,	565.4,	0.0);	(461155.1, 3769010.0,	328.6,	565.4,	0.0);
(461205.1, 3769010.0,	328.5,	565.4,	0.0);	(461255.1, 3769010.0,	328.1,	565.4,	0.0);
(461305.1, 3769010.0,	327.7,	565.4,	0.0);	(461355.1, 3769010.0,	327.3,	565.4,	0.0);
(461405.1, 3769010.0,	327.6,	565.4,	0.0);	(461455.1, 3769010.0,	327.1,	565.4,	0.0);
(461505.1, 3769010.0,	327.0,	565.4,	0.0);	(461555.1, 3769010.0,	326.6,	565.4,	0.0);
(461605.1, 3769010.0,	326.9,	565.4,	0.0);	(461655.1, 3769010.0,	326.9,	565.4,	0.0);
(461705.1, 3769010.0,	327.0,	565.4,	0.0);	(461755.1, 3769010.0,	326.8,	564.1,	0.0);
(461805.1, 3769010.0,	326.2,	564.1,	0.0);	(461855.1, 3769010.0,	326.8,	564.1,	0.0);
(461905.1, 3769010.0,	326.8,	564.1,	0.0);	(461955.1, 3769010.0,	326.5,	564.1,	0.0);
(462005.1, 3769010.0,	326.0,	564.1,	0.0);	(462055.1, 3769010.0,	325.3,	564.1,	0.0);
(462105.1, 3769010.0,	325.3,	325.3,	0.0);	(462155.1, 3769010.0,	325.6,	325.6,	0.0);
(462205.1, 3769010.0,	325.4,	325.4,	0.0);	(462255.1, 3769010.0,	324.5,	324.5,	0.0);
(462305.1, 3769010.0,	324.8,	324.8,	0.0);	(462355.1, 3769010.0,	325.3,	325.3,	0.0);
(462405.1, 3769010.0,	325.7,	325.7,	0.0);	(462455.1, 3769010.0,	326.1,	326.1,	0.0);
(462505.1, 3769010.0,	325.9,	325.9,	0.0);	(462555.1, 3769010.0,	325.9,	325.9,	0.0);
(462605.1, 3769010.0,	326.0,	326.0,	0.0);	(461105.1, 3769060.0,	329.5,	565.4,	0.0);

Model Output - Bloomington CWP Implementation 2040

```
( 461155.1, 3769060.0, 329.1, 565.4, 0.0); ( 461205.1, 3769060.0, 328.8, 565.4, 0.0);
( 461255.1, 3769060.0, 328.6, 565.4, 0.0); ( 461305.1, 3769060.0, 328.1, 565.4, 0.0);
( 461355.1, 3769060.0, 328.1, 565.4, 0.0); ( 461405.1, 3769060.0, 328.2, 565.4, 0.0);
( 461455.1, 3769060.0, 328.1, 565.4, 0.0); ( 462155.1, 3769060.0, 326.3, 326.3, 0.0);
( 462205.1, 3769060.0, 326.0, 326.0, 0.0); ( 462255.1, 3769060.0, 326.4, 326.4, 0.0);
( 462305.1, 3769060.0, 326.2, 326.2, 0.0); ( 462355.1, 3769060.0, 326.0, 326.0, 0.0);
( 462405.1, 3769060.0, 326.2, 326.2, 0.0); ( 462455.1, 3769060.0, 326.5, 326.5, 0.0);
( 462505.1, 3769060.0, 326.4, 326.4, 0.0); ( 462555.1, 3769060.0, 326.7, 326.7, 0.0);
( 462605.1, 3769060.0, 326.6, 326.6, 0.0); ( 461105.1, 3769110.0, 329.9, 565.4, 0.0);
( 461155.1, 3769110.0, 329.4, 565.4, 0.0); ( 461205.1, 3769110.0, 329.2, 565.4, 0.0);
( 461255.1, 3769110.0, 329.0, 565.4, 0.0); ( 461305.1, 3769110.0, 328.5, 565.4, 0.0);
( 461355.1, 3769110.0, 328.6, 564.1, 0.0); ( 462255.1, 3769110.0, 327.0, 327.0, 0.0);
*** AERMOD - VERSION 19191 *** *** CWP Implemenation, Bloomington, 2040 *** 05/22/20
*** AERMET - VERSION 16216 *** *** (Existing Plus Project - Existing No Project) > 100 trucks/day *** 11:03:51
*** MODELOPTS: RegDFAULT CONC ELEV URBAN ADJ_U* *** PAGE 35

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

( 462305.1, 3769110.0, 326.9, 326.9, 0.0); ( 462355.1, 3769110.0, 326.9, 326.9, 0.0);
( 462405.1, 3769110.0, 326.9, 326.9, 0.0); ( 462455.1, 3769110.0, 327.0, 327.0, 0.0);
( 462505.1, 3769110.0, 327.0, 327.0, 0.0); ( 462555.1, 3769110.0, 327.3, 327.3, 0.0);
( 462605.1, 3769110.0, 327.2, 327.2, 0.0); ( 461105.1, 3769160.0, 330.5, 564.1, 0.0);
( 461155.1, 3769160.0, 330.2, 564.1, 0.0); ( 461205.1, 3769160.0, 330.0, 564.1, 0.0);
( 461255.1, 3769160.0, 329.4, 564.1, 0.0); ( 461305.1, 3769160.0, 329.1, 564.1, 0.0);
( 461355.1, 3769160.0, 329.4, 564.1, 0.0); ( 462255.1, 3769160.0, 327.3, 327.3, 0.0);
( 462305.1, 3769160.0, 327.4, 327.4, 0.0); ( 462355.1, 3769160.0, 327.5, 327.5, 0.0);
( 462405.1, 3769160.0, 327.7, 327.7, 0.0); ( 462455.1, 3769160.0, 327.8, 327.8, 0.0);
( 462505.1, 3769160.0, 327.9, 327.9, 0.0); ( 462555.1, 3769160.0, 327.9, 327.9, 0.0);
( 462605.1, 3769160.0, 327.7, 327.7, 0.0); ( 461105.1, 3769210.0, 331.2, 564.1, 0.0);
( 461155.1, 3769210.0, 331.0, 564.1, 0.0); ( 461205.1, 3769210.0, 330.7, 564.1, 0.0);
( 461255.1, 3769210.0, 330.3, 564.1, 0.0); ( 461305.1, 3769210.0, 330.0, 564.1, 0.0);
( 461355.1, 3769210.0, 330.2, 564.1, 0.0); ( 462255.1, 3769210.0, 327.7, 327.7, 0.0);
( 462305.1, 3769210.0, 327.9, 327.9, 0.0); ( 462355.1, 3769210.0, 328.0, 328.0, 0.0);
( 462405.1, 3769210.0, 328.4, 328.4, 0.0); ( 462455.1, 3769210.0, 328.6, 328.6, 0.0);
( 462505.1, 3769210.0, 328.7, 328.7, 0.0); ( 462555.1, 3769210.0, 328.6, 328.6, 0.0);
( 462605.1, 3769210.0, 328.4, 328.4, 0.0); ( 462238.8, 3769377.9, 330.3, 330.3, 0.0);
( 462288.8, 3769377.9, 330.1, 330.1, 0.0); ( 462238.8, 3769427.9, 331.4, 331.4, 0.0);
( 462288.8, 3769427.9, 331.1, 331.1, 0.0); ( 462109.4, 3769333.4, 329.6, 329.6, 0.0);
( 462159.4, 3769333.4, 329.9, 329.9, 0.0); ( 462109.4, 3769383.4, 330.2, 330.2, 0.0);
( 462159.4, 3769383.4, 330.4, 330.4, 0.0); ( 462640.9, 3768858.5, 324.2, 324.2, 0.0);
( 462690.9, 3768858.5, 324.7, 324.7, 0.0); ( 462740.9, 3768858.5, 324.3, 324.3, 0.0);
( 462790.9, 3768858.5, 323.6, 323.6, 0.0); ( 462840.9, 3768858.5, 323.5, 323.5, 0.0);
( 462890.9, 3768858.5, 324.1, 324.1, 0.0); ( 462940.9, 3768858.5, 322.1, 322.1, 0.0);
( 462990.9, 3768858.5, 322.3, 322.3, 0.0); ( 462640.9, 3768908.5, 324.9, 324.9, 0.0);
( 462690.9, 3768908.5, 325.1, 325.1, 0.0); ( 462740.9, 3768908.5, 324.7, 324.7, 0.0);
( 462790.9, 3768908.5, 324.1, 324.1, 0.0); ( 462840.9, 3768908.5, 323.9, 323.9, 0.0);
( 462890.9, 3768908.5, 324.1, 324.1, 0.0); ( 462940.9, 3768908.5, 323.2, 323.2, 0.0);
( 462990.9, 3768908.5, 322.9, 322.9, 0.0); ( 462640.9, 3768958.5, 326.0, 326.0, 0.0);
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Model Output - Bloomington
CWP Implementation 2040

```
( 462690.9, 3768958.5, 326.2, 326.2, 0.0); ( 462740.9, 3768958.5, 325.4, 325.4, 0.0);
( 462790.9, 3768958.5, 324.9, 324.9, 0.0); ( 462840.9, 3768958.5, 324.5, 324.5, 0.0);
( 462890.9, 3768958.5, 324.5, 324.5, 0.0); ( 462940.9, 3768958.5, 324.3, 324.3, 0.0);
( 462990.9, 3768958.5, 324.0, 324.0, 0.0); ( 462640.9, 3769008.5, 326.6, 326.6, 0.0);
( 462690.9, 3769008.5, 326.6, 326.6, 0.0); ( 462740.9, 3769008.5, 326.3, 326.3, 0.0);
( 462790.9, 3769008.5, 325.9, 325.9, 0.0); ( 462840.9, 3769008.5, 326.2, 326.2, 0.0);
( 462890.9, 3769008.5, 325.9, 325.9, 0.0); ( 462940.9, 3769008.5, 325.5, 325.5, 0.0);
( 462990.9, 3769008.5, 325.1, 325.1, 0.0); ( 462640.9, 3769058.5, 327.1, 327.1, 0.0);
( 462690.9, 3769058.5, 326.9, 326.9, 0.0); ( 462740.9, 3769058.5, 327.0, 327.0, 0.0);
( 462790.9, 3769058.5, 326.7, 326.7, 0.0); ( 462840.9, 3769058.5, 326.1, 326.1, 0.0);
( 462890.9, 3769058.5, 326.2, 326.2, 0.0); ( 462940.9, 3769058.5, 325.3, 325.3, 0.0);
( 462990.9, 3769058.5, 325.3, 325.3, 0.0); ( 462640.9, 3769108.5, 327.8, 327.8, 0.0);
( 462690.9, 3769108.5, 327.1, 327.1, 0.0); ( 462740.9, 3769108.5, 327.4, 327.4, 0.0);
( 462790.9, 3769108.5, 327.2, 327.2, 0.0); ( 462840.9, 3769108.5, 326.4, 326.4, 0.0);
( 462890.9, 3769108.5, 326.5, 326.5, 0.0); ( 462940.9, 3769108.5, 325.6, 325.6, 0.0);
*** AERMOD - VERSION 19191 *** *** CWP Implemenation, Bloomington, 2040 *** 05/22/20
*** AERMET - VERSION 16216 *** *** (Existing Plus Project - Existing No Project) > 100 trucks/day *** 11:03:51
*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U* *** PAGE 36

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

( 462990.9, 3769108.5, 326.0, 326.0, 0.0); ( 462640.9, 3769158.5, 328.4, 328.4, 0.0);
( 462690.9, 3769158.5, 327.4, 327.4, 0.0); ( 462740.9, 3769158.5, 327.8, 327.8, 0.0);
( 462790.9, 3769158.5, 327.5, 327.5, 0.0); ( 462840.9, 3769158.5, 326.8, 326.8, 0.0);
( 462890.9, 3769158.5, 327.0, 327.0, 0.0); ( 462940.9, 3769158.5, 325.9, 325.9, 0.0);
( 462990.9, 3769158.5, 326.6, 326.6, 0.0); ( 462640.9, 3769208.5, 328.9, 328.9, 0.0);
( 462690.9, 3769208.5, 328.6, 328.6, 0.0); ( 462740.9, 3769208.5, 328.4, 328.4, 0.0);
( 462790.9, 3769208.5, 328.3, 328.3, 0.0); ( 462840.9, 3769208.5, 327.8, 327.8, 0.0);
( 462890.9, 3769208.5, 327.5, 327.5, 0.0); ( 462940.9, 3769208.5, 326.9, 326.9, 0.0);
( 462990.9, 3769208.5, 326.9, 326.9, 0.0); ( 462949.0, 3769277.2, 327.8, 327.8, 0.0);
( 462999.0, 3769277.2, 327.7, 327.7, 0.0); ( 462949.0, 3769327.2, 328.4, 328.4, 0.0);
( 462999.0, 3769327.2, 328.1, 328.1, 0.0); ( 463498.3, 3768863.1, 323.6, 323.6, 0.0);
( 463548.3, 3768863.1, 322.9, 322.9, 0.0); ( 463598.3, 3768863.1, 321.6, 321.6, 0.0);
( 463648.3, 3768863.1, 320.6, 320.6, 0.0); ( 463698.3, 3768863.1, 320.0, 320.0, 0.0);
( 463748.3, 3768863.1, 319.7, 319.7, 0.0); ( 463798.3, 3768863.1, 319.3, 319.3, 0.0);
( 463848.3, 3768863.1, 318.3, 318.3, 0.0); ( 463898.3, 3768863.1, 318.0, 318.0, 0.0);
( 463948.3, 3768863.1, 318.3, 318.3, 0.0); ( 463998.3, 3768863.1, 317.9, 317.9, 0.0);
( 464048.3, 3768863.1, 316.1, 316.1, 0.0); ( 464098.3, 3768863.1, 316.1, 316.1, 0.0);
( 464148.3, 3768863.1, 315.5, 315.5, 0.0); ( 464198.3, 3768863.1, 315.7, 315.7, 0.0);
( 464248.3, 3768863.1, 314.8, 314.8, 0.0); ( 464298.3, 3768863.1, 314.5, 314.5, 0.0);
( 464348.3, 3768863.1, 314.7, 314.7, 0.0); ( 464398.3, 3768863.1, 314.4, 314.4, 0.0);
( 464448.3, 3768863.1, 314.4, 314.4, 0.0); ( 464498.3, 3768863.1, 314.2, 314.2, 0.0);
( 464548.3, 3768863.1, 313.9, 313.9, 0.0); ( 464598.3, 3768863.1, 313.5, 313.5, 0.0);
( 463498.3, 3768913.1, 324.0, 324.0, 0.0); ( 463548.3, 3768913.1, 323.5, 323.5, 0.0);
( 463598.3, 3768913.1, 322.2, 322.2, 0.0); ( 463648.3, 3768913.1, 321.1, 321.1, 0.0);
( 463698.3, 3768913.1, 320.5, 320.5, 0.0); ( 463748.3, 3768913.1, 320.1, 320.1, 0.0);
( 463798.3, 3768913.1, 319.7, 319.7, 0.0); ( 463848.3, 3768913.1, 319.0, 319.0, 0.0);
( 463898.3, 3768913.1, 319.1, 319.1, 0.0); ( 463948.3, 3768913.1, 319.1, 319.1, 0.0);
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Model Output - Bloomington CWP Implementation 2040

(463998.3, 3768913.1,	318.6,	318.6,	0.0);	(464048.3, 3768913.1,	317.1,	317.1,	0.0);
(464098.3, 3768913.1,	316.8,	316.8,	0.0);	(464148.3, 3768913.1,	316.6,	316.6,	0.0);
(464198.3, 3768913.1,	316.0,	316.0,	0.0);	(464248.3, 3768913.1,	315.9,	315.9,	0.0);
(464298.3, 3768913.1,	315.5,	315.5,	0.0);	(464348.3, 3768913.1,	315.4,	315.4,	0.0);
(464398.3, 3768913.1,	315.2,	315.2,	0.0);	(464448.3, 3768913.1,	314.9,	314.9,	0.0);
(464498.3, 3768913.1,	314.6,	314.6,	0.0);	(464548.3, 3768913.1,	314.4,	314.4,	0.0);
(464598.3, 3768913.1,	314.3,	314.3,	0.0);	(463498.3, 3768963.1,	324.4,	324.4,	0.0);
(463548.3, 3768963.1,	323.3,	323.3,	0.0);	(463598.3, 3768963.1,	322.2,	322.2,	0.0);
(463648.3, 3768963.1,	321.1,	321.1,	0.0);	(463698.3, 3768963.1,	320.7,	320.7,	0.0);
(463748.3, 3768963.1,	320.5,	320.5,	0.0);	(463798.3, 3768963.1,	320.4,	320.4,	0.0);
(463848.3, 3768963.1,	319.8,	319.8,	0.0);	(463898.3, 3768963.1,	319.8,	319.8,	0.0);
(463948.3, 3768963.1,	319.9,	319.9,	0.0);	(463998.3, 3768963.1,	319.3,	319.3,	0.0);
(464048.3, 3768963.1,	317.7,	317.7,	0.0);	(464098.3, 3768963.1,	317.2,	317.2,	0.0);
(464148.3, 3768963.1,	316.8,	316.8,	0.0);	(464198.3, 3768963.1,	317.0,	317.0,	0.0);
(464248.3, 3768963.1,	316.4,	316.4,	0.0);	(464298.3, 3768963.1,	315.9,	315.9,	0.0);
(464348.3, 3768963.1,	315.9,	315.9,	0.0);	(464398.3, 3768963.1,	315.6,	315.6,	0.0);
(464448.3, 3768963.1,	315.6,	315.6,	0.0);	(464498.3, 3768963.1,	315.4,	315.4,	0.0);
(464548.3, 3768963.1,	315.2,	315.2,	0.0);	(464598.3, 3768963.1,	314.9,	314.9,	0.0);
*** AERMOD - VERSION 19191 ***	*** CWP Implemenation, Bloomington, 2040	***	05/22/20				
*** AERMET - VERSION 16216 ***	*** (Existing Plus Project - Existing No Project) > 100 trucks/day	***	11:03:51				
*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ U*			PAGE 37				

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*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

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(463498.3, 3769013.1,	325.2,	325.2,	0.0);	(463548.3, 3769013.1,	323.7,	323.7,	0.0);
(463598.3, 3769013.1,	323.8,	323.8,	0.0);	(463648.3, 3769013.1,	321.5,	321.5,	0.0);
(463698.3, 3769013.1,	321.6,	321.6,	0.0);	(463748.3, 3769013.1,	321.0,	321.0,	0.0);
(463798.3, 3769013.1,	321.2,	321.2,	0.0);	(463848.3, 3769013.1,	320.3,	320.3,	0.0);
(463898.3, 3769013.1,	320.7,	320.7,	0.0);	(463948.3, 3769013.1,	320.4,	320.4,	0.0);
(463998.3, 3769013.1,	319.7,	319.7,	0.0);	(464048.3, 3769013.1,	318.8,	318.8,	0.0);
(464098.3, 3769013.1,	318.3,	318.3,	0.0);	(464148.3, 3769013.1,	317.4,	317.4,	0.0);
(464198.3, 3769013.1,	317.3,	317.3,	0.0);	(464248.3, 3769013.1,	317.1,	317.1,	0.0);
(464298.3, 3769013.1,	316.8,	316.8,	0.0);	(464348.3, 3769013.1,	316.5,	316.5,	0.0);
(464398.3, 3769013.1,	316.6,	316.6,	0.0);	(464448.3, 3769013.1,	316.7,	316.7,	0.0);
(464498.3, 3769013.1,	316.1,	316.1,	0.0);	(464548.3, 3769013.1,	315.7,	315.7,	0.0);
(464598.3, 3769013.1,	315.4,	315.4,	0.0);	(463498.3, 3769063.1,	325.7,	325.7,	0.0);
(463548.3, 3769063.1,	324.0,	324.0,	0.0);	(463598.3, 3769063.1,	324.2,	324.2,	0.0);
(463648.3, 3769063.1,	321.9,	321.9,	0.0);	(463698.3, 3769063.1,	322.1,	322.1,	0.0);
(463748.3, 3769063.1,	321.6,	321.6,	0.0);	(463798.3, 3769063.1,	321.9,	321.9,	0.0);
(463848.3, 3769063.1,	321.4,	321.4,	0.0);	(463898.3, 3769063.1,	321.2,	321.2,	0.0);
(463948.3, 3769063.1,	320.9,	320.9,	0.0);	(463998.3, 3769063.1,	319.6,	319.6,	0.0);
(464048.3, 3769063.1,	319.1,	319.1,	0.0);	(464098.3, 3769063.1,	318.6,	318.6,	0.0);
(464148.3, 3769063.1,	318.0,	318.0,	0.0);	(464198.3, 3769063.1,	317.9,	317.9,	0.0);
(464248.3, 3769063.1,	318.0,	318.0,	0.0);	(464298.3, 3769063.1,	317.5,	317.5,	0.0);
(464348.3, 3769063.1,	317.5,	317.5,	0.0);	(464398.3, 3769063.1,	317.6,	317.6,	0.0);
(464598.3, 3769063.1,	316.1,	316.1,	0.0);	(463498.3, 3769113.1,	326.2,	326.2,	0.0);
(463548.3, 3769113.1,	324.4,	324.4,	0.0);	(463598.3, 3769113.1,	324.4,	324.4,	0.0);
(463648.3, 3769113.1,	322.3,	322.3,	0.0);	(463698.3, 3769113.1,	322.6,	322.6,	0.0);

Model Output - Bloomington CWP Implementation 2040

(463748.3, 3769113.1, 322.2, 322.2, 0.0);	(463798.3, 3769113.1, 322.6, 322.6, 0.0);
(463848.3, 3769113.1, 322.2, 322.2, 0.0);	(463898.3, 3769113.1, 322.3, 322.3, 0.0);
(463948.3, 3769113.1, 321.1, 321.1, 0.0);	(463998.3, 3769113.1, 320.1, 320.1, 0.0);
(464048.3, 3769113.1, 319.2, 319.2, 0.0);	(464098.3, 3769113.1, 318.9, 318.9, 0.0);
(464148.3, 3769113.1, 319.0, 319.0, 0.0);	(464198.3, 3769113.1, 319.3, 319.3, 0.0);
(464248.3, 3769113.1, 318.5, 318.5, 0.0);	(464298.3, 3769113.1, 318.1, 318.1, 0.0);
(464348.3, 3769113.1, 318.3, 318.3, 0.0);	(464398.3, 3769113.1, 318.2, 318.2, 0.0);
(463498.3, 3769163.1, 326.8, 326.8, 0.0);	(463548.3, 3769163.1, 324.9, 324.9, 0.0);
(463598.3, 3769163.1, 324.9, 324.9, 0.0);	(463648.3, 3769163.1, 322.7, 322.7, 0.0);
(463698.3, 3769163.1, 323.2, 323.2, 0.0);	(463748.3, 3769163.1, 322.9, 322.9, 0.0);
(463798.3, 3769163.1, 323.3, 323.3, 0.0);	(463848.3, 3769163.1, 322.9, 322.9, 0.0);
(463898.3, 3769163.1, 321.8, 321.8, 0.0);	(463948.3, 3769163.1, 321.2, 321.2, 0.0);
(463998.3, 3769163.1, 320.0, 320.0, 0.0);	(464048.3, 3769163.1, 319.9, 319.9, 0.0);
(464098.3, 3769163.1, 320.0, 320.0, 0.0);	(464148.3, 3769163.1, 319.8, 319.8, 0.0);
(464198.3, 3769163.1, 319.7, 319.7, 0.0);	(464248.3, 3769163.1, 319.4, 319.4, 0.0);
(464298.3, 3769163.1, 319.2, 319.2, 0.0);	(464348.3, 3769163.1, 318.8, 318.8, 0.0);
(464398.3, 3769163.1, 318.6, 318.6, 0.0);	(464498.3, 3769163.1, 318.6, 318.6, 0.0);
(463548.3, 3769213.1, 326.1, 326.1, 0.0);	(463598.3, 3769213.1, 325.4, 325.4, 0.0);
(463648.3, 3769213.1, 324.1, 324.1, 0.0);	(463698.3, 3769213.1, 323.9, 323.9, 0.0);
(463748.3, 3769213.1, 323.6, 323.6, 0.0);	(463798.3, 3769213.1, 323.6, 323.6, 0.0);
(463848.3, 3769213.1, 323.3, 323.3, 0.0);	(463898.3, 3769213.1, 322.1, 322.1, 0.0);
*** AERMOD - VERSION 19191 ***	*** CWP Implementation, Bloomington, 2040 ***
*** AERMET - VERSION 16216 ***	*** (Existing Plus Project - Existing No Project) > 100 trucks/day ***
*** MODELOPTS: RegDFAULT CONC ELEV URBAN ADJ_U*	

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*** DISCRETE CARTESIAN RECEPTORS *** (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG) (METERS)

(463948.3, 3769213.1, 321.5, 321.5, 0.0);	(463998.3, 3769213.1, 321.2, 321.2, 0.0);
(464048.3, 3769213.1, 320.8, 320.8, 0.0);	(464098.3, 3769213.1, 320.7, 320.7, 0.0);
(464148.3, 3769213.1, 320.5, 320.5, 0.0);	(464198.3, 3769213.1, 320.5, 320.5, 0.0);
(464248.3, 3769213.1, 320.0, 320.0, 0.0);	(464298.3, 3769213.1, 320.0, 320.0, 0.0);
(464348.3, 3769213.1, 319.5, 319.5, 0.0);	(464398.3, 3769213.1, 319.2, 319.2, 0.0);
(463448.3, 3769263.1, 327.5, 327.5, 0.0);	(463498.3, 3769263.1, 327.6, 327.6, 0.0);
(463548.3, 3769263.1, 327.1, 327.1, 0.0);	(463598.3, 3769263.1, 326.4, 326.4, 0.0);
(463648.3, 3769263.1, 325.3, 325.3, 0.0);	(463698.3, 3769263.1, 324.8, 324.8, 0.0);
(463748.3, 3769263.1, 324.2, 324.2, 0.0);	(463798.3, 3769263.1, 323.7, 323.7, 0.0);
(463448.3, 3769313.1, 328.2, 328.2, 0.0);	(463498.3, 3769313.1, 328.1, 328.1, 0.0);
(463548.3, 3769313.1, 328.0, 328.0, 0.0);	(463598.3, 3769313.1, 327.0, 327.0, 0.0);
(463648.3, 3769313.1, 325.2, 325.2, 0.0);	(463698.3, 3769313.1, 324.8, 324.8, 0.0);
(463748.3, 3769313.1, 324.2, 324.2, 0.0);	(463798.3, 3769313.1, 323.8, 323.8, 0.0);
(463448.3, 3769363.1, 329.5, 329.5, 0.0);	(463498.3, 3769363.1, 329.2, 329.2, 0.0);
(463548.3, 3769363.1, 329.3, 329.3, 0.0);	(463598.3, 3769363.1, 327.5, 327.5, 0.0);
(463648.3, 3769363.1, 326.7, 326.7, 0.0);	(463698.3, 3769363.1, 326.2, 326.2, 0.0);
(463748.3, 3769363.1, 326.1, 326.1, 0.0);	(463798.3, 3769363.1, 324.2, 324.2, 0.0);
(463448.3, 3769413.1, 329.6, 329.6, 0.0);	(463498.3, 3769413.1, 329.6, 329.6, 0.0);
(463548.3, 3769413.1, 329.3, 329.3, 0.0);	(463598.3, 3769413.1, 327.9, 327.9, 0.0);
(463648.3, 3769413.1, 327.1, 327.1, 0.0);	(463698.3, 3769413.1, 326.9, 326.9, 0.0);
(463748.3, 3769413.1, 325.9, 325.9, 0.0);	(463798.3, 3769413.1, 324.7, 324.7, 0.0);

Model Output - Bloomington CWP Implementation 2040

(464446.3, 3767274.5,	296.3,	296.3,	0.0);	(464496.3, 3767274.5,	295.5,	295.5,	0.0);
(464546.3, 3767274.5,	295.0,	295.0,	0.0);	(464596.3, 3767274.5,	293.4,	293.4,	0.0);
(464446.3, 3767324.5,	295.9,	297.7,	0.0);	(464496.3, 3767324.5,	293.4,	293.4,	0.0);
(464546.3, 3767324.5,	293.2,	293.2,	0.0);	(464596.3, 3767324.5,	292.9,	292.9,	0.0);
(464446.3, 3767374.5,	295.9,	298.2,	0.0);	(464496.3, 3767374.5,	293.6,	293.6,	0.0);
(464546.3, 3767374.5,	294.3,	294.3,	0.0);	(464596.3, 3767374.5,	294.0,	294.0,	0.0);
(464446.3, 3767424.5,	295.0,	295.0,	0.0);	(464496.3, 3767424.5,	293.9,	293.9,	0.0);
(464546.3, 3767424.5,	294.7,	294.7,	0.0);	(464596.3, 3767424.5,	294.8,	294.8,	0.0);
(464446.3, 3767474.5,	295.4,	295.4,	0.0);	(464496.3, 3767474.5,	294.1,	294.1,	0.0);
(464546.3, 3767474.5,	295.3,	295.3,	0.0);	(464596.3, 3767474.5,	295.5,	295.5,	0.0);
(464446.3, 3767524.5,	295.9,	295.9,	0.0);	(464496.3, 3767524.5,	294.7,	294.7,	0.0);
(464546.3, 3767524.5,	295.8,	295.8,	0.0);	(464596.3, 3767524.5,	296.1,	296.1,	0.0);
(464446.3, 3767574.5,	297.1,	297.1,	0.0);	(464496.3, 3767574.5,	296.8,	296.8,	0.0);
(464546.3, 3767574.5,	296.6,	296.6,	0.0);	(464596.3, 3767574.5,	296.3,	296.3,	0.0);
(464346.3, 3767624.5,	298.8,	298.8,	0.0);	(464396.3, 3767624.5,	297.8,	297.8,	0.0);
(464446.3, 3767624.5,	297.8,	297.8,	0.0);	(464496.3, 3767624.5,	297.4,	297.4,	0.0);
(464546.3, 3767624.5,	297.3,	297.3,	0.0);	(464596.3, 3767624.5,	296.9,	296.9,	0.0);
(464646.3, 3767624.5,	296.6,	296.6,	0.0);	(464696.3, 3767624.5,	296.2,	296.2,	0.0);
(464746.3, 3767624.5,	295.7,	295.7,	0.0);	(464796.3, 3767624.5,	295.4,	295.4,	0.0);
(464846.3, 3767624.5,	295.1,	295.1,	0.0);	(464346.3, 3767674.5,	298.9,	298.9,	0.0);
(464396.3, 3767674.5,	298.5,	298.5,	0.0);	(464446.3, 3767674.5,	298.6,	298.6,	0.0);
(464496.3, 3767674.5,	298.4,	298.4,	0.0);	(464546.3, 3767674.5,	297.7,	297.7,	0.0);
(464596.3, 3767674.5,	297.6,	297.6,	0.0);	(464646.3, 3767674.5,	297.3,	297.3,	0.0);
(464696.3, 3767674.5,	297.0,	297.0,	0.0);	(464746.3, 3767674.5,	296.4,	296.4,	0.0);

*** AERMOD - VERSION 19191 *** *** CWP Implemenation, Bloomington, 2040 *** 05/22/20

*** AERMET - VERSION 16216 *** *** (Existing Plus Project - Existing No Project) > 100 trucks/day *** 11:03:51

*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U* PAGE 39

*** DISCRETE CARTESIAN RECEPTORS ***

(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)

(METERS)

(464796.3, 3767674.5,	296.0,	296.0,	0.0);	(464846.3, 3767674.5,	295.6,	295.6,	0.0);
(464346.3, 3767724.5,	299.4,	299.4,	0.0);	(464396.3, 3767724.5,	299.1,	299.1,	0.0);
(464446.3, 3767724.5,	299.3,	299.3,	0.0);	(464496.3, 3767724.5,	298.8,	298.8,	0.0);
(464546.3, 3767724.5,	298.6,	298.6,	0.0);	(464596.3, 3767724.5,	298.4,	298.4,	0.0);
(464646.3, 3767724.5,	298.1,	298.1,	0.0);	(464696.3, 3767724.5,	297.6,	297.6,	0.0);
(464746.3, 3767724.5,	297.2,	297.2,	0.0);	(464796.3, 3767724.5,	296.8,	296.8,	0.0);
(464846.3, 3767724.5,	296.3,	296.3,	0.0);	(464346.3, 3767774.5,	300.0,	300.0,	0.0);
(464396.3, 3767774.5,	299.6,	299.6,	0.0);	(464446.3, 3767774.5,	300.0,	300.0,	0.0);
(464496.3, 3767774.5,	299.4,	299.4,	0.0);	(464546.3, 3767774.5,	299.2,	299.2,	0.0);
(464596.3, 3767774.5,	299.0,	299.0,	0.0);	(464646.3, 3767774.5,	298.7,	298.7,	0.0);
(464696.3, 3767774.5,	298.3,	298.3,	0.0);	(464746.3, 3767774.5,	298.1,	298.1,	0.0);
(464796.3, 3767774.5,	298.0,	298.0,	0.0);	(464846.3, 3767774.5,	296.9,	296.9,	0.0);
(464346.3, 3767824.5,	300.9,	300.9,	0.0);	(464396.3, 3767824.5,	300.6,	300.6,	0.0);
(464446.3, 3767824.5,	300.5,	300.5,	0.0);	(464496.3, 3767824.5,	300.2,	300.2,	0.0);
(464546.3, 3767824.5,	299.9,	299.9,	0.0);	(464596.3, 3767824.5,	299.8,	299.8,	0.0);
(464646.3, 3767824.5,	299.6,	299.6,	0.0);	(464696.3, 3767824.5,	299.2,	299.2,	0.0);
(464746.3, 3767824.5,	298.8,	298.8,	0.0);	(464796.3, 3767824.5,	298.5,	298.5,	0.0);
(464846.3, 3767824.5,	297.8,	297.8,	0.0);	(464346.3, 3767874.5,	301.4,	301.4,	0.0);

Model Output - Bloomington CWP Implementation 2040

(464396.3, 3767874.5,	301.1,	301.1,	0.0);	(464446.3, 3767874.5,	301.0,	301.0,	0.0);
(464496.3, 3767874.5,	300.9,	300.9,	0.0);	(464546.3, 3767874.5,	301.0,	301.0,	0.0);
(464596.3, 3767874.5,	300.8,	300.8,	0.0);	(464646.3, 3767874.5,	300.4,	300.4,	0.0);
(464696.3, 3767874.5,	299.8,	299.8,	0.0);	(464746.3, 3767874.5,	299.2,	299.2,	0.0);
(464796.3, 3767874.5,	298.9,	298.9,	0.0);	(464846.3, 3767874.5,	298.1,	298.1,	0.0);
(464346.3, 3767924.5,	301.8,	301.8,	0.0);	(464396.3, 3767924.5,	301.5,	301.5,	0.0);
(464446.3, 3767924.5,	301.3,	301.3,	0.0);	(464496.3, 3767924.5,	301.5,	301.5,	0.0);
(464546.3, 3767924.5,	301.5,	301.5,	0.0);	(464596.3, 3767924.5,	301.3,	301.3,	0.0);
(464646.3, 3767924.5,	301.2,	301.2,	0.0);	(464696.3, 3767924.5,	300.3,	300.3,	0.0);
(464746.3, 3767924.5,	299.9,	299.9,	0.0);	(464796.3, 3767924.5,	299.4,	299.4,	0.0);
(464846.3, 3767924.5,	298.7,	298.7,	0.0);	(464346.3, 3767974.5,	302.5,	302.5,	0.0);
(464396.3, 3767974.5,	302.1,	302.1,	0.0);	(464446.3, 3767974.5,	302.0,	302.0,	0.0);
(464496.3, 3767974.5,	302.1,	302.1,	0.0);	(464546.3, 3767974.5,	302.1,	302.1,	0.0);
(464596.3, 3767974.5,	301.8,	301.8,	0.0);	(464646.3, 3767974.5,	301.5,	301.5,	0.0);
(464696.3, 3767974.5,	300.9,	300.9,	0.0);	(464746.3, 3767974.5,	300.7,	300.7,	0.0);
(464796.3, 3767974.5,	299.6,	299.6,	0.0);	(464846.3, 3767974.5,	299.4,	299.4,	0.0);
(464346.3, 3768024.5,	303.6,	303.6,	0.0);	(464396.3, 3768024.5,	303.4,	303.4,	0.0);
(464446.3, 3768024.5,	303.4,	303.4,	0.0);	(464496.3, 3768024.5,	303.4,	303.4,	0.0);
(464546.3, 3768024.5,	303.0,	303.0,	0.0);	(464596.3, 3768024.5,	302.7,	302.7,	0.0);
(464646.3, 3768024.5,	302.3,	302.3,	0.0);	(464696.3, 3768024.5,	301.8,	301.8,	0.0);
(464746.3, 3768024.5,	301.0,	301.0,	0.0);	(464796.3, 3768024.5,	300.1,	300.1,	0.0);
(464846.3, 3768024.5,	299.6,	299.6,	0.0);	(464346.3, 3768074.5,	304.4,	304.4,	0.0);
(464396.3, 3768074.5,	304.2,	304.2,	0.0);	(464446.3, 3768074.5,	303.9,	303.9,	0.0);
(464496.3, 3768074.5,	304.3,	304.3,	0.0);	(464546.3, 3768074.5,	303.4,	303.4,	0.0);
(464596.3, 3768074.5,	303.2,	303.2,	0.0);	(464646.3, 3768074.5,	302.9,	302.9,	0.0);
(464696.3, 3768074.5,	302.3,	302.3,	0.0);	(464746.3, 3768074.5,	301.6,	301.6,	0.0);
(464796.3, 3768074.5,	300.8,	300.8,	0.0);	(464346.3, 3768124.5,	305.0,	305.0,	0.0);
*** AERMOD - VERSION 19191 ***	***	*** CWP Implemenation, Bloomington, 2040		***			05/22/20
*** AERMET - VERSION 16216 ***	***	*** (Existing Plus Project - Existing No Project) > 100 trucks/day		***			11:03:51
							PAGE 40
*** MODELOPTs: RegDFAULT	CONC	ELEV	URBAN	ADJ_U*			
*** DISCRETE CARTESIAN RECEPTORS ***							
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)							
(METERS)							
(464396.3, 3768124.5,	304.5,	304.5,	0.0);	(464446.3, 3768124.5,	304.5,	304.5,	0.0);
(464496.3, 3768124.5,	304.6,	304.6,	0.0);	(464546.3, 3768124.5,	304.2,	304.2,	0.0);
(464596.3, 3768124.5,	303.8,	303.8,	0.0);	(464646.3, 3768124.5,	303.6,	303.6,	0.0);
(464696.3, 3768124.5,	303.1,	303.1,	0.0);	(464746.3, 3768124.5,	302.3,	302.3,	0.0);
(464796.3, 3768124.5,	301.4,	301.4,	0.0);	(464346.3, 3768174.5,	305.6,	305.6,	0.0);
(464396.3, 3768174.5,	305.4,	305.4,	0.0);	(464446.3, 3768174.5,	305.2,	305.2,	0.0);
(464496.3, 3768174.5,	305.1,	305.1,	0.0);	(464546.3, 3768174.5,	304.9,	304.9,	0.0);
(464596.3, 3768174.5,	304.4,	304.4,	0.0);	(464646.3, 3768174.5,	304.4,	304.4,	0.0);
(464696.3, 3768174.5,	304.0,	304.0,	0.0);	(464746.3, 3768174.5,	302.8,	302.8,	0.0);
(464796.3, 3768174.5,	302.5,	302.5,	0.0);	(464346.3, 3768224.5,	306.5,	306.5,	0.0);
(464396.3, 3768224.5,	306.1,	306.1,	0.0);	(464446.3, 3768224.5,	305.8,	305.8,	0.0);
(464496.3, 3768224.5,	305.4,	305.4,	0.0);	(464546.3, 3768224.5,	305.5,	305.5,	0.0);
(464596.3, 3768224.5,	305.1,	305.1,	0.0);	(464646.3, 3768224.5,	305.0,	305.0,	0.0);
(464696.3, 3768224.5,	304.1,	304.1,	0.0);	(464746.3, 3768224.5,	302.8,	302.8,	0.0);
(464796.3, 3768224.5,	303.0,	303.0,	0.0);	(464346.3, 3768274.5,	307.4,	307.4,	0.0);

Model Output - Bloomington CWP Implementation 2040

(464396.3, 3768274.5,	307.0,	307.0,	0.0);	(464446.3, 3768274.5,	306.8,	306.8,	0.0);
(464496.3, 3768274.5,	306.3,	306.3,	0.0);	(464546.3, 3768274.5,	305.7,	305.7,	0.0);
(464596.3, 3768274.5,	305.0,	305.0,	0.0);	(464646.3, 3768274.5,	305.5,	305.5,	0.0);
(464696.3, 3768274.5,	304.4,	305.8,	0.0);	(464746.3, 3768274.5,	303.1,	303.1,	0.0);
(464796.3, 3768274.5,	303.3,	303.3,	0.0);	(464346.3, 3768324.5,	308.2,	308.2,	0.0);
(464396.3, 3768324.5,	307.7,	307.7,	0.0);	(464446.3, 3768324.5,	307.3,	307.3,	0.0);
(464496.3, 3768324.5,	306.8,	306.8,	0.0);	(464546.3, 3768324.5,	306.3,	306.3,	0.0);
(464596.3, 3768324.5,	306.0,	306.0,	0.0);	(464646.3, 3768324.5,	306.3,	306.3,	0.0);
(464696.3, 3768324.5,	305.1,	306.5,	0.0);	(464746.3, 3768324.5,	303.5,	303.5,	0.0);
(464796.3, 3768324.5,	303.6,	303.6,	0.0);	(464346.3, 3768374.5,	308.6,	308.6,	0.0);
(464396.3, 3768374.5,	308.4,	308.4,	0.0);	(464446.3, 3768374.5,	308.0,	308.0,	0.0);
(464496.3, 3768374.5,	307.5,	307.5,	0.0);	(464546.3, 3768374.5,	307.0,	307.0,	0.0);
(464596.3, 3768374.5,	306.3,	306.3,	0.0);	(464646.3, 3768374.5,	306.9,	306.9,	0.0);
(464696.3, 3768374.5,	305.8,	305.8,	0.0);	(464746.3, 3768374.5,	306.5,	306.9,	0.0);
(464796.3, 3768374.5,	306.3,	306.6,	0.0);	(464346.3, 3768424.5,	309.4,	309.4,	0.0);
(464396.3, 3768424.5,	309.1,	309.1,	0.0);	(464646.3, 3768424.5,	306.9,	306.9,	0.0);
(464696.3, 3768424.5,	306.6,	306.6,	0.0);	(464746.3, 3768424.5,	306.5,	306.5,	0.0);
(464796.3, 3768424.5,	306.2,	306.2,	0.0);	(464346.3, 3768474.5,	309.9,	309.9,	0.0);
(464396.3, 3768474.5,	309.5,	309.5,	0.0);	(464646.3, 3768474.5,	307.6,	307.6,	0.0);
(464696.3, 3768474.5,	307.3,	307.3,	0.0);	(464746.3, 3768474.5,	307.2,	307.2,	0.0);
(464796.3, 3768474.5,	306.4,	306.4,	0.0);	(464346.3, 3768524.5,	310.4,	310.4,	0.0);
(464396.3, 3768524.5,	309.9,	309.9,	0.0);	(464646.3, 3768524.5,	308.3,	308.3,	0.0);
(464696.3, 3768524.5,	308.2,	308.2,	0.0);	(464746.3, 3768524.5,	307.7,	307.7,	0.0);
(464796.3, 3768524.5,	307.2,	307.2,	0.0);	(464346.3, 3768574.5,	310.8,	310.8,	0.0);
(464396.3, 3768574.5,	310.5,	310.5,	0.0);	(464646.3, 3768574.5,	309.1,	309.1,	0.0);
(464696.3, 3768574.5,	308.9,	308.9,	0.0);	(464746.3, 3768574.5,	308.8,	308.8,	0.0);
(464796.3, 3768574.5,	307.7,	307.7,	0.0);	(464346.3, 3768624.5,	311.5,	311.5,	0.0);
(464396.3, 3768624.5,	311.0,	311.0,	0.0);	(464646.3, 3768624.5,	309.9,	309.9,	0.0);
(464696.3, 3768624.5,	309.7,	309.7,	0.0);	(464746.3, 3768624.5,	309.2,	309.2,	0.0);
(464796.3, 3768624.5,	308.5,	308.5,	0.0);	(464346.3, 3768674.5,	312.0,	312.0,	0.0);
*** AERMOD - VERSION 19191 ***	*** CWP Implemenation, Bloomington, 2040			***			05/22/20
*** AERMET - VERSION 16216 ***	*** (Existing Plus Project - Existing No Project) > 100 trucks/day			***			11:03:51
*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*							PAGE 41
*** DISCRETE CARTESIAN RECEPTORS ***							
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)							
(METERS)							
(464396.3, 3768674.5,	311.7,	311.7,	0.0);	(464446.3, 3768674.5,	311.3,	311.3,	0.0);
(464496.3, 3768674.5,	311.1,	311.1,	0.0);	(464546.3, 3768674.5,	311.0,	311.0,	0.0);
(464596.3, 3768674.5,	310.9,	310.9,	0.0);	(464346.3, 3768724.5,	313.7,	313.7,	0.0);
(464396.3, 3768724.5,	313.4,	313.4,	0.0);	(464446.3, 3768724.5,	313.2,	313.2,	0.0);
(464496.3, 3768724.5,	312.8,	312.8,	0.0);	(464546.3, 3768724.5,	312.6,	312.6,	0.0);
(464596.3, 3768724.5,	312.6,	312.6,	0.0);	(464346.3, 3768774.5,	313.6,	313.6,	0.0);
(464396.3, 3768774.5,	313.4,	313.4,	0.0);	(464446.3, 3768774.5,	313.1,	313.1,	0.0);
(464496.3, 3768774.5,	312.9,	312.9,	0.0);	(464546.3, 3768774.5,	312.6,	312.6,	0.0);
(464596.3, 3768774.5,	312.4,	312.4,	0.0);	(464346.3, 3768824.5,	314.0,	314.0,	0.0);
(464396.3, 3768824.5,	313.9,	313.9,	0.0);	(464446.3, 3768824.5,	313.8,	313.8,	0.0);
(464496.3, 3768824.5,	313.5,	313.5,	0.0);	(464546.3, 3768824.5,	313.2,	313.2,	0.0);
(464596.3, 3768824.5,	312.9,	312.9,	0.0);				

Model Output - Bloomington CWP Implementation 2040

```

*** AERMOT - VERSION 19191 *** *** CWP Implementation, Bloomington, 2040 *** 05/22/20
*** AERMET - VERSION 16216 *** *** (Existing Plus Project - Existing No Project) > 100 trucks/day *** 11:03:51
                                                                                                     PAGE 42
*** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ  U*

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

[illegible]

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,

Model Output - Bloomington CWP Implementation 2040

*** 05/22/20
*** 11:03:51
PAGE 43

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

Met Version: 16216

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

Model Output - Bloomington CWP Implementation 2040

*** AERMOD - VERSION 19191 *** *** CWP Implemenation, Bloomington, 2040 *** 05/22/20
*** AERMET - VERSION 16216 *** *** (Existing Plus Project - Existing No Project) > 100 trucks/day *** 11:03:51
*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U* PAGE 56

*** THE SUMMARY OF MAXIMUM PERIOD (43848 HRS) RESULTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
ALL	1ST HIGHEST VALUE IS	0.00351 AT (	463618.24, 3769882.12, 330.27, 335.16,	0.00)	DC
	2ND HIGHEST VALUE IS	0.00334 AT (	463668.24, 3769882.12, 331.08, 331.08,	0.00)	DC
	3RD HIGHEST VALUE IS	0.00321 AT (	463718.24, 3769882.12, 330.80, 330.80,	0.00)	DC
	4TH HIGHEST VALUE IS	0.00308 AT (	462777.55, 3769827.14, 336.04, 336.04,	0.00)	DC
	5TH HIGHEST VALUE IS	0.00301 AT (	463768.24, 3769882.12, 331.08, 331.08,	0.00)	DC
	6TH HIGHEST VALUE IS	0.00288 AT (	462277.55, 3769804.84, 335.81, 335.81,	0.00)	DC
	7TH HIGHEST VALUE IS	0.00283 AT (	462227.55, 3769804.84, 335.75, 335.75,	0.00)	DC
	8TH HIGHEST VALUE IS	0.00281 AT (	462727.55, 3769827.14, 336.41, 336.41,	0.00)	DC
	9TH HIGHEST VALUE IS	0.00279 AT (	462177.55, 3769804.84, 335.91, 335.91,	0.00)	DC
	10TH HIGHEST VALUE IS	0.00276 AT (	463818.24, 3769882.12, 331.33, 331.33,	0.00)	DC

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

Model Output - Bloomington CWP Implementation 2040

```
*** AERMOD - VERSION 19191 ***    *** CWP Implemenation, Bloomington, 2040    ***    05/22/20
*** AERMET - VERSION 16216 ***    *** (Existing Plus Project - Existing No Project) > 100 trucks/day ***    11:03:51
                                                                                   ***    PAGE 57

*** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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

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

A Total of           0 Fatal Error Message(s)
A Total of           7 Warning Message(s)
A Total of          838 Informational Message(s)

A Total of          43848 Hours Were Processed

A Total of           40 Calm Hours Identified

A Total of           798 Missing Hours Identified ( 1.82 Percent)

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

***** WARNING MESSAGES *****
ME W186   1785    MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used           0.50
ME W187   1785    MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET
MX W438   8800    METQA: Convective Velocity Data Out-of-Range.  KURDAT =          12010216
MX W438  11536    METQA: Convective Velocity Data Out-of-Range.  KURDAT =          12042516
MX W420  16779    METQA: Wind Speed Out-of-Range.  KURDAT =          12113003
MX W450  26305    CHKDAT: Record Out of Sequence in Meteorological File at:          15010101
MX W450  26305    CHKDAT: Record Out of Sequence in Meteorological File at:    1 year gap

*****
*** AERMOD Finishes Successfully ***
*****
```

Model Output - Muscoy CWP Implementation 2040

```
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 9.9.0
** Lakes Environmental Software Inc.
** Date: 5/15/2020
** File: C:\!AERMOD\SBC25\ExCWP_mus2040\ExCWP_mus2040.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
  TITLEONE CWP Implementation, Muscoy, 2040
  TITLETWO (Existing Plus Project - Existing No Project) > 100 trucks/day
  MODELOPT DFAULT CONC
  AVERTIME PERIOD
  URBANOPT 2035210 San_Bernardino_County
  POLLUTID OTHER
  RUNORNOT RUN
  ERRORFIL ExCWP_mus2040.err
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = 1
** DESCRSRC 1st St
** PREFIX
** Length of Side = 7.00
** Configuration = Adjacent
** Emission Rate = 9.74E-07
** Vertical Dimension = 7.00
** SZINIT = 3.26
** Nodes = 2
** 468766.277, 3780057.289, 434.91, 3.50, 3.26
** 468667.005, 3779977.461, 433.71, 3.50, 3.26
** -----
** Line Source Represented by Adjacent Volume Sources
```

Model Output - Muscoy CWP Implementation 2040

```
** LINE VOLUME Source ID = 2
** DESCRSRC UniversityPkwy, NO Interchange
** PREFIX
** Length of Side = 20.40
** Configuration = Adjacent
** Emission Rate = 8.01E-06
** Vertical Dimension = 7.00
** SZINIT = 3.26
** Nodes = 7
** 469170.022, 3780213.363, 435.97, 3.50, 9.49
** 469119.362, 3780138.524, 434.46, 3.50, 9.49
** 469098.637, 3780085.562, 434.14, 3.50, 9.49
** 469087.124, 3780048.718, 432.44, 3.50, 9.49
** 469084.821, 3780000.361, 431.54, 3.50, 9.49
** 469090.578, 3779945.095, 430.56, 3.50, 9.49
** 469117.059, 3779849.532, 430.37, 3.50, 9.49
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = 3
** DESCRSRC University, SO Interchange
** PREFIX
** Length of Side = 24.60
** Configuration = Adjacent
** Emission Rate = 0.0000119
** Vertical Dimension = 7.00
** SZINIT = 3.26
** Nodes = 7
** 469079.064, 3779209.374, 414.72, 3.50, 11.44
** 469085.972, 3779268.094, 416.31, 3.50, 11.44
** 469127.421, 3779603.141, 424.03, 3.50, 11.44
** 469141.238, 3779672.222, 427.57, 3.50, 11.44
** 469142.389, 3779711.369, 434.19, 3.50, 11.44
** 469141.238, 3779758.575, 432.99, 3.50, 11.44
** 469120.513, 3779844.927, 430.42, 3.50, 11.44
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = 4
** DESCRSRC State, NO Blake
** PREFIX
** Length of Side = 11.50
** Configuration = Adjacent
** Emission Rate = 2.84E-06
** Vertical Dimension = 7.00
** SZINIT = 3.26
** Nodes = 3
** 469074.193, 3778902.477, 409.71, 3.50, 5.35
** 469074.193, 3779106.755, 412.79, 3.50, 5.35
** 469079.000, 3779201.685, 414.70, 3.50, 5.35
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = 5
```

Model Output - Muscoy CWP Implementation 2040

```
** DESCRSRC State, SO Blake
** PREFIX
** Length of Side = 9.60
** Configuration = Adjacent
** Emission Rate = 3.76E-06
** Vertical Dimension = 7.00
** SZINIT = 3.26
** Nodes = 2
** 469072.992, 3778502.331, 403.12, 3.50, 4.47
** 469075.395, 3778898.872, 409.55, 3.50, 4.47
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = 6
** DESCRSRC 210WB, EO California
** PREFIX
** Length of Side = 25.60
** Configuration = Adjacent
** Emission Rate = 0.0000383
** Vertical Dimension = 7.00
** SZINIT = 3.26
** Nodes = 6
** 469474.336, 3777231.203, 382.41, 3.50, 11.91
** 469556.904, 3777266.338, 389.78, 3.50, 11.91
** 469637.716, 3777308.501, 381.12, 3.50, 11.91
** 469711.500, 3777354.177, 388.68, 3.50, 11.91
** 469801.096, 3777431.475, 387.52, 3.50, 11.91
** 469948.664, 3777598.368, 387.93, 3.50, 11.91
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = 7
** DESCRSRC 210WB, WO California
** PREFIX
** Length of Side = 22.00
** Configuration = Adjacent
** Emission Rate = 0.0000531
** Vertical Dimension = 7.00
** SZINIT = 3.26
** Nodes = 9
** 468666.221, 3777167.959, 388.48, 3.50, 10.23
** 468805.006, 3777150.391, 388.82, 3.50, 10.23
** 468942.034, 3777141.607, 389.90, 3.50, 10.23
** 469049.197, 3777138.094, 386.59, 3.50, 10.23
** 469091.360, 3777139.851, 387.96, 3.50, 10.23
** 469193.252, 3777148.634, 391.28, 3.50, 10.23
** 469289.875, 3777171.472, 391.12, 3.50, 10.23
** 469400.551, 3777201.338, 390.66, 3.50, 10.23
** 469462.039, 3777225.932, 383.95, 3.50, 10.23
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = 8
** DESCRSRC 210WB, WO Macy
```

Model Output - Muscoy CWP Implemenation 2040

```
** PREFIX
** Length of Side = 21.70
** Configuration = Adjacent
** Emission Rate = 0.0000734
** Vertical Dimension = 7.00
** SZINIT = 3.26
** Nodes = 10
** 467512.852, 3777127.694, 401.00, 3.50, 10.09
** 467605.746, 3777125.534, 399.63, 3.50, 10.09
** 467700.801, 3777127.694, 398.25, 3.50, 10.09
** 467880.110, 3777149.298, 395.29, 3.50, 10.09
** 468011.890, 3777168.741, 385.28, 3.50, 10.09
** 468117.747, 3777179.543, 391.40, 3.50, 10.09
** 468240.887, 3777179.543, 390.13, 3.50, 10.09
** 468392.111, 3777179.543, 389.61, 3.50, 10.09
** 468549.815, 3777170.901, 388.92, 3.50, 10.09
** 468657.832, 3777164.420, 388.49, 3.50, 10.09
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = 9
** DESCRSRC 210EB, WO State Offramp
** PREFIX
** Length of Side = 24.00
** Configuration = Adjacent
** Emission Rate = 0.0000606
** Vertical Dimension = 7.00
** SZINIT = 3.26
** Nodes = 8
** 468452.173, 3777143.146, 388.87, 3.50, 11.16
** 468293.366, 3777150.532, 389.41, 3.50, 11.16
** 468206.576, 3777152.379, 390.10, 3.50, 11.16
** 468121.632, 3777152.379, 390.82, 3.50, 11.16
** 468058.848, 3777144.992, 384.80, 3.50, 11.16
** 467683.989, 3777098.827, 399.17, 3.50, 11.16
** 467632.285, 3777095.134, 399.86, 3.50, 11.16
** 467512.256, 3777098.827, 401.51, 3.50, 11.16
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = 10
** DESCRSRC 210EB, EO State Offramp
** PREFIX
** Length of Side = 21.00
** Configuration = Adjacent
** Emission Rate = 0.0000388
** Vertical Dimension = 7.00
** SZINIT = 3.26
** Nodes = 7
** 468461.406, 3777143.146, 388.84, 3.50, 9.77
** 468629.446, 3777133.913, 388.39, 3.50, 9.77
** 468858.424, 3777117.293, 389.31, 3.50, 9.77
** 469050.470, 3777106.214, 385.24, 3.50, 9.77
```

Model Output - Muscoy
CWP Implementation 2040

```
** 469092.941, 3777109.907, 388.72, 3.50, 9.77
** 469196.351, 3777119.140, 392.21, 3.50, 9.77
** 469272.061, 3777133.913, 392.11, 3.50, 9.77
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = 11
** DESCRSRC 210EB, EO State Onramp
** PREFIX
** Length of Side = 23.60
** Configuration = Adjacent
** Emission Rate = 0.000039
** Vertical Dimension = 7.00
** SZINIT = 3.26
** Nodes = 8
** 469286.834, 3777137.606, 392.07, 3.50, 10.98
** 469384.704, 3777163.458, 391.71, 3.50, 10.98
** 469502.886, 3777202.237, 391.13, 3.50, 10.98
** 469628.454, 3777261.328, 390.33, 3.50, 10.98
** 469724.477, 3777324.112, 387.26, 3.50, 10.98
** 469805.727, 3777394.283, 388.84, 3.50, 10.98
** 469907.290, 3777482.919, 387.86, 3.50, 10.98
** 469994.080, 3777567.862, 387.29, 3.50, 10.98
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = 12
** DESCRSRC Hallmark
** PREFIX
** Length of Side = 18.60
** Configuration = Adjacent
** Emission Rate = 0.0000761
** Vertical Dimension = 7.00
** SZINIT = 3.26
** Nodes = 6
** 468570.355, 3781046.848, 454.98, 3.50, 8.65
** 468588.821, 3780958.211, 453.35, 3.50, 8.65
** 468605.440, 3780902.813, 452.22, 3.50, 8.65
** 468897.202, 3780531.648, 442.17, 3.50, 8.65
** 469104.021, 3780271.278, 436.67, 3.50, 8.65
** 469172.345, 3780221.420, 436.13, 3.50, 8.65
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = 13
** DESCRSRC Offramp
** PREFIX
** Length of Side = 7.50
** Configuration = Adjacent
** Emission Rate = 2.91E-06
** Vertical Dimension = 7.00
** SZINIT = 3.26
** Nodes = 8
** 468641.227, 3777118.596, 387.55, 3.50, 3.49
```

Model Output - Muscoy CWP Implementation 2040

```
** 468723.116, 3777103.511, 387.38, 3.50, 3.49
** 468764.060, 3777091.299, 386.97, 3.50, 3.49
** 468802.850, 3777071.186, 386.10, 3.50, 3.49
** 468889.049, 3777010.128, 383.79, 3.50, 3.49
** 468942.205, 3776981.395, 382.25, 3.50, 3.49
** 468977.403, 3776974.212, 381.39, 3.50, 3.49
** 469052.827, 3776969.902, 380.52, 3.50, 3.49
```

```
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = 14
** DESCRSRC StateSt
** PREFIX
** Length of Side = 29.00
** Configuration = Adjacent
** Emission Rate = 7.5E-07
** Vertical Dimension = 7.00
** SZINIT = 3.26
** Nodes = 2
** 469067.912, 3777085.553, 382.21, 3.50, 13.49
** 469068.631, 3776967.747, 380.48, 3.50, 13.49
** -----
```

```
URBANSRC ALL
SRCGROUP ALL
SO FINISHED
**
```

```
*****
** AERMOD Receptor Pathway
*****
**
```

```
RE STARTING
INCLUDED ExCWP_mus2040.rou
RE FINISHED
**
```

```
*****
** AERMOD Meteorology Pathway
*****
**
```

```
ME STARTING
SURFFILE "..\met data\FONT_v9.SFC"
PROFFILE "..\met data\FONT_v9.PFL"
SURFDATA 3102 2011
UAIRDATA 3190 2011
SITEDATA 99999 2011
PROFBASE 367.0 METERS
ME FINISHED
**
```

```
*****
** AERMOD Output Pathway
*****
```

Model Output - Muscoy CWP Implementation 2040

**
**

OU STARTING

** Auto-Generated Plotfiles

PLOTFILE PERIOD ALL EXCWP_MUS2040.AD\PE00GALL.PLT 31

SUMMFILE ExcWP_mus2040.sum

OU FINISHED

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

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

A Total of	0 Fatal Error Message(s)
A Total of	2 Warning Message(s)
A Total of	0 Informational Message(s)

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

***** WARNING MESSAGES *****

ME W186	1314	MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used	0.50
ME W187	1314	MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET	

*** SETUP Finishes Successfully ***

Model Output - Muscoy CWP Implementation 2040

```
*** AERMOD - VERSION 19191 ***   *** CWP Implementation, Muscoy, 2040   ***   05/15/20
*** AERMET - VERSION 16216 ***   *** (Existing Plus Project - Existing No Project) > 100 trucks/day ***   08:50:17
*** MODELOPTS:   RegDEFAULT CONC ELEV URBAN ADJ_U*   ***   PAGE 1
```

*** 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 478 Source(s),
for Total of 1 Urban Area(s):

Urban Population = 2035210.0 ; 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:

ADJ_U* - Use ADJ_U* option for SBL in AERMET

TEMP_Sub - Meteorological data includes TEMP substitutions

**Model Assumes No FLAGPOLE Receptor Heights.

**The User Specified a Pollutant Type of: OTHER

**Model Calculates PERIOD Averages Only

**This Run Includes: 478 Source(s); 1 Source Group(s); and 729 Receptor(s)

with: 0 POINT(s), including
0 POINTCAP(s) and 0 POINTHOR(s)
and: 478 VOLUME source(s)
and: 0 AREA type source(s)
and: 0 LINE source(s)
and: 0 RLINE/RLINEXT 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.

Model Output - Muscoy CWP Implementation 2040

**The AERMET Input Meteorological Data Version Date: 16216

**Output Options Selected:

Model Outputs Tables of PERIOD 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) = 367.00 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0
Emission Units = GRAMS/SEC ; Emission Rate Unit Factor = 0.10000E+07
Output Units = MICROGRAMS/M**3

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

**Input Runstream File: aermod.inp

**Output Print File: aermod.out

**Detailed Error/Message File: ExCWP_mus2040.err

**File for Summary of Results: ExCWP_mus2040.sum

Model Output - Muscoy CWP Implementation 2040

```

*** AERMOD - VERSION 19191 ***      *** CWP Implementation, Muscoy, 2040
*** AERMET - VERSION 16216 ***      *** (Existing Plus Project - Existing No Project) > 100 trucks/day

*** MODELOPTs:      RegDEFAULT  CONC  ELEV  URBAN  ADJ_U*

```

*** 05/15/20
*** 08:50:17
PAGE 2

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X		Y		BASE ELEV.	RELEASE HEIGHT	INIT. SY	INIT. SZ	URBAN SOURCE	EMISSION RATE	
			(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)		SCALAR	VARY BY
L0000479	0	0.54110E-07	468763.5	3780055.1	434.9	3.50	3.26	3.26	YES				
L0000480	0	0.54110E-07	468758.1	3780050.7	434.7	3.50	3.26	3.26	YES				
L0000481	0	0.54110E-07	468752.6	3780046.3	434.7	3.50	3.26	3.26	YES				
L0000482	0	0.54110E-07	468747.2	3780041.9	434.7	3.50	3.26	3.26	YES				
L0000483	0	0.54110E-07	468741.7	3780037.5	434.6	3.50	3.26	3.26	YES				
L0000484	0	0.54110E-07	468736.3	3780033.2	434.4	3.50	3.26	3.26	YES				
L0000485	0	0.54110E-07	468730.8	3780028.8	434.2	3.50	3.26	3.26	YES				
L0000486	0	0.54110E-07	468725.4	3780024.4	434.1	3.50	3.26	3.26	YES				
L0000487	0	0.54110E-07	468719.9	3780020.0	434.0	3.50	3.26	3.26	YES				
L0000488	0	0.54110E-07	468714.5	3780015.6	434.0	3.50	3.26	3.26	YES				
L0000489	0	0.54110E-07	468709.0	3780011.2	433.9	3.50	3.26	3.26	YES				
L0000490	0	0.54110E-07	468703.5	3780006.8	433.9	3.50	3.26	3.26	YES				
L0000491	0	0.54110E-07	468698.1	3780002.5	433.8	3.50	3.26	3.26	YES				
L0000492	0	0.54110E-07	468692.6	3779998.1	433.8	3.50	3.26	3.26	YES				
L0000493	0	0.54110E-07	468687.2	3779993.7	433.8	3.50	3.26	3.26	YES				
L0000494	0	0.54110E-07	468681.7	3779989.3	433.8	3.50	3.26	3.26	YES				
L0000495	0	0.54110E-07	468676.3	3779984.9	433.8	3.50	3.26	3.26	YES				
L0000496	0	0.54110E-07	468670.8	3779980.5	433.8	3.50	3.26	3.26	YES				
L0000497	0	0.42160E-06	469164.3	3780204.9	435.7	3.50	9.49	3.26	YES				
L0000498	0	0.42160E-06	469152.9	3780188.0	435.4	3.50	9.49	3.26	YES				
L0000499	0	0.42160E-06	469141.4	3780171.1	435.1	3.50	9.49	3.26	YES				
L0000500	0	0.42160E-06	469130.0	3780154.2	434.8	3.50	9.49	3.26	YES				
L0000501	0	0.42160E-06	469118.8	3780137.2	434.5	3.50	9.49	3.26	YES				
L0000502	0	0.42160E-06	469111.4	3780118.2	434.3	3.50	9.49	3.26	YES				
L0000503	0	0.42160E-06	469104.0	3780099.2	434.1	3.50	9.49	3.26	YES				
L0000504	0	0.42160E-06	469096.9	3780080.1	433.6	3.50	9.49	3.26	YES				
L0000505	0	0.42160E-06	469090.8	3780060.6	432.8	3.50	9.49	3.26	YES				
L0000506	0	0.42160E-06	469086.7	3780040.8	432.3	3.50	9.49	3.26	YES				
L0000507	0	0.42160E-06	469085.8	3780020.4	431.9	3.50	9.49	3.26	YES				
L0000508	0	0.42160E-06	469084.9	3780000.0	431.5	3.50	9.49	3.26	YES				
L0000509	0	0.42160E-06	469087.0	3779979.7	431.4	3.50	9.49	3.26	YES				
L0000510	0	0.42160E-06	469089.1	3779959.4									

Model Output - Muscoy
CWP Implemenation 2040

L0000517 0 0.45770E-06 469083.4 3779246.0 415.7 3.50 11.44 3.26 YES
L0000518 0 0.45770E-06 469086.3 3779270.5 416.6 3.50 11.44 3.26 YES
*** AERMOD - VERSION 19191 *** *** CWP Implementation, Muscoy, 2040 ***
*** AERMET - VERSION 16216 *** *** (Existing Plus Project - Existing No Project) > 100 trucks/day ***

05/15/20
08:50:17
PAGE 3

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0000519	0	0.45770E-06	469089.3	3779294.9	417.5	3.50	11.44	3.26	YES	
L0000520	0	0.45770E-06	469092.3	3779319.3	418.6	3.50	11.44	3.26	YES	
L0000521	0	0.45770E-06	469095.3	3779343.7	419.4	3.50	11.44	3.26	YES	
L0000522	0	0.45770E-06	469098.3	3779368.1	418.7	3.50	11.44	3.26	YES	
L0000523	0	0.45770E-06	469101.4	3779392.5	419.4	3.50	11.44	3.26	YES	
L0000524	0	0.45770E-06	469104.4	3779416.9	420.1	3.50	11.44	3.26	YES	
L0000525	0	0.45770E-06	469107.4	3779441.3	420.5	3.50	11.44	3.26	YES	
L0000526	0	0.45770E-06	469110.4	3779465.8	421.0	3.50	11.44	3.26	YES	
L0000527	0	0.45770E-06	469113.4	3779490.2	421.9	3.50	11.44	3.26	YES	
L0000528	0	0.45770E-06	469116.5	3779514.6	422.4	3.50	11.44	3.26	YES	
L0000529	0	0.45770E-06	469119.5	3779539.0	422.8	3.50	11.44	3.26	YES	
L0000530	0	0.45770E-06	469122.5	3779563.4	423.4	3.50	11.44	3.26	YES	
L0000531	0	0.45770E-06	469125.5	3779587.8	423.7	3.50	11.44	3.26	YES	
L0000532	0	0.45770E-06	469129.2	3779612.1	424.2	3.50	11.44	3.26	YES	
L0000533	0	0.45770E-06	469134.0	3779636.3	425.1	3.50	11.44	3.26	YES	
L0000534	0	0.45770E-06	469138.9	3779660.4	425.2	3.50	11.44	3.26	YES	
L0000535	0	0.45770E-06	469141.6	3779684.7	431.6	3.50	11.44	3.26	YES	
L0000536	0	0.45770E-06	469142.3	3779709.3	434.3	3.50	11.44	3.26	YES	
L0000537	0	0.45770E-06	469141.8	3779733.9	433.7	3.50	11.44	3.26	YES	
L0000538	0	0.45770E-06	469141.2	3779758.5	432.9	3.50	11.44	3.26	YES	
L0000539	0	0.45770E-06	469135.5	3779782.4	432.2	3.50	11.44	3.26	YES	
L0000540	0	0.45770E-06	469129.8	3779806.4	431.5	3.50	11.44	3.26	YES	
L0000541	0	0.45770E-06	469124.0	3779830.3	430.8	3.50	11.44	3.26	YES	
L0000542	0	0.10920E-06	469074.2	3778908.2	409.8	3.50	5.35	3.26	YES	
L0000543	0	0.10920E-06	469074.2	3778919.7	410.1	3.50	5.35	3.26	YES	
L0000544	0	0.10920E-06	469074.2	3778931.2	410.3	3.50	5.35	3.26	YES	
L0000545	0	0.10920E-06	469074.2	3778942.7	410.5	3.50	5.35	3.26	YES	
L0000546	0	0.10920E-06	469074.2	3778954.2	410.7	3.50	5.35	3.26	YES	
L0000547	0	0.10920E-06	469074.2	3778965.7	410.8	3.50	5.35	3.26	YES	
L0000548	0	0.10920E-06	469074.2	3778977.2	411.0	3.50	5.35	3.26	YES	
L0000549	0	0.10920E-06	469074.2	3778988.7	411.2	3.50	5.35	3.26	YES	
L0000550	0	0.10920E-06	469074.2	3779000.2	411.4	3.50	5.35	3.26	YES	
L0000551	0	0.10920E-06	469074.2	3779011.7	411.6	3.50	5.35	3.26	YES	
L0000552	0	0.10920E-06	469074.2	3779023.2	411.7	3.50	5.35	3.26	YES	
L0000553	0	0.10920E-06	469074.2	3779034.7	411.8	3.50	5.35	3.26	YES	
L0000554	0	0.10920E-06	469074.2	3779046.2	412.0	3.50	5.35	3.26	YES	

Model Output - Muscroy CWP Implemenation 2040

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L0000555      0  0.10920E-06 469074.2 3779057.7 412.1      3.50      5.35      3.26      YES
L0000556      0  0.10920E-06 469074.2 3779069.2 412.3      3.50      5.35      3.26      YES
L0000557      0  0.10920E-06 469074.2 3779080.7 412.4      3.50      5.35      3.26      YES
L0000558      0  0.10920E-06 469074.2 3779092.2 412.6      3.50      5.35      3.26      YES
*** AERMOD - VERSION 19191 *** *** CWP Implementation, Muscroy, 2040 ***
*** AERMET - VERSION 16216 *** *** (Existing Plus Project - Existing No Project) > 100 trucks/day ***
*** MODELOPTs:      RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0000559	0	0.10920E-06	469074.2	3779103.7	412.8	3.50	5.35	3.26	YES	
L0000560	0	0.10920E-06	469074.6	3779115.2	413.0	3.50	5.35	3.26	YES	
L0000561	0	0.10920E-06	469075.2	3779126.7	413.2	3.50	5.35	3.26	YES	
L0000562	0	0.10920E-06	469075.8	3779138.2	413.4	3.50	5.35	3.26	YES	
L0000563	0	0.10920E-06	469076.4	3779149.7	413.6	3.50	5.35	3.26	YES	
L0000564	0	0.10920E-06	469076.9	3779161.2	413.8	3.50	5.35	3.26	YES	
L0000565	0	0.10920E-06	469077.5	3779172.6	414.0	3.50	5.35	3.26	YES	
L0000566	0	0.10920E-06	469078.1	3779184.1	414.3	3.50	5.35	3.26	YES	
L0000567	0	0.10920E-06	469078.7	3779195.6	414.6	3.50	5.35	3.26	YES	
L0000568	0	0.91710E-07	469073.0	3778507.1	403.2	3.50	4.47	3.26	YES	
L0000569	0	0.91710E-07	469073.1	3778516.7	403.4	3.50	4.47	3.26	YES	
L0000570	0	0.91710E-07	469073.1	3778526.3	403.5	3.50	4.47	3.26	YES	
L0000571	0	0.91710E-07	469073.2	3778535.9	403.7	3.50	4.47	3.26	YES	
L0000572	0	0.91710E-07	469073.3	3778545.5	403.8	3.50	4.47	3.26	YES	
L0000573	0	0.91710E-07	469073.3	3778555.1	404.0	3.50	4.47	3.26	YES	
L0000574	0	0.91710E-07	469073.4	3778564.7	404.2	3.50	4.47	3.26	YES	
L0000575	0	0.91710E-07	469073.4	3778574.3	404.3	3.50	4.47	3.26	YES	
L0000576	0	0.91710E-07	469073.5	3778583.9	404.5	3.50	4.47	3.26	YES	
L0000577	0	0.91710E-07	469073.5	3778593.5	404.7	3.50	4.47	3.26	YES	
L0000578	0	0.91710E-07	469073.6	3778603.1	404.9	3.50	4.47	3.26	YES	
L0000579	0	0.91710E-07	469073.7	3778612.7	405.1	3.50	4.47	3.26	YES	
L0000580	0	0.91710E-07	469073.7	3778622.3	405.2	3.50	4.47	3.26	YES	
L0000581	0	0.91710E-07	469073.8	3778631.9	405.4	3.50	4.47	3.26	YES	
L0000582	0	0.91710E-07	469073.8	3778641.5	405.6	3.50	4.47	3.26	YES	
L0000583	0	0.91710E-07	469073.9	3778651.1	405.8	3.50	4.47	3.26	YES	
L0000584	0	0.91710E-07	469074.0	3778660.7	406.0	3.50	4.47	3.26	YES	
L0000585	0	0.91710E-07	469074.0	3778670.3	406.2	3.50	4.47	3.26	YES	
L0000586	0	0.91710E-07	469074.1	3778679.9	406.4	3.50	4.47	3.26	YES	
L0000587	0	0.91710E-07	469074.1	3778689.5	406.5	3.50	4.47	3.26	YES	
L0000588	0	0.91710E-07	469074.2	3778699.1	406.6	3.50	4.47	3.26	YES	
L0000589	0	0.91710E-07	469074.2	3778708.7	406.8	3.50	4.47	3.26	YES	
L0000590	0	0.91710E-07	469074.3	3778718.3	406.9	3.50	4.47	3.26	YES	
L0000591	0	0.91710E-07	469074.4	3778727.9	407.1	3.50	4.47	3.26	YES	
L0000592	0	0.91710E-07	469074.4	3778737.5	407.2	3.50	4.47	3.26	YES	

Model Output - Muscoy CWP Implemenation 2040

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L0000593      0  0.91710E-07 469074.5 3778747.1  407.3    3.50    4.47    3.26    YES
L0000594      0  0.91710E-07 469074.5 3778756.7  407.5    3.50    4.47    3.26    YES
L0000595      0  0.91710E-07 469074.6 3778766.3  407.6    3.50    4.47    3.26    YES
L0000596      0  0.91710E-07 469074.6 3778775.9  407.7    3.50    4.47    3.26    YES
L0000597      0  0.91710E-07 469074.7 3778785.5  407.9    3.50    4.47    3.26    YES
L0000598      0  0.91710E-07 469074.8 3778795.1  408.0    3.50    4.47    3.26    YES
*** AERMOD - VERSION 19191 *** *** CWP Implementation, Muscoy, 2040 ***
*** AERMET - VERSION 16216 *** *** (Existing Plus Project - Existing No Project) > 100 trucks/day ***

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0000599	0	0.91710E-07	469074.8	3778804.7	408.2	3.50	4.47	3.26	YES	
L0000600	0	0.91710E-07	469074.9	3778814.3	408.3	3.50	4.47	3.26	YES	
L0000601	0	0.91710E-07	469074.9	3778823.9	408.4	3.50	4.47	3.26	YES	
L0000602	0	0.91710E-07	469075.0	3778833.5	408.6	3.50	4.47	3.26	YES	
L0000603	0	0.91710E-07	469075.1	3778843.1	408.7	3.50	4.47	3.26	YES	
L0000604	0	0.91710E-07	469075.1	3778852.7	408.8	3.50	4.47	3.26	YES	
L0000605	0	0.91710E-07	469075.2	3778862.3	409.0	3.50	4.47	3.26	YES	
L0000606	0	0.91710E-07	469075.2	3778871.9	409.2	3.50	4.47	3.26	YES	
L0000607	0	0.91710E-07	469075.3	3778881.5	409.4	3.50	4.47	3.26	YES	
L0000608	0	0.91710E-07	469075.3	3778891.1	409.5	3.50	4.47	3.26	YES	
L0000609	0	0.15960E-05	469486.1	3777236.2	386.0	3.50	11.91	3.26	YES	
L0000610	0	0.15960E-05	469509.7	3777246.2	389.8	3.50	11.91	3.26	YES	
L0000611	0	0.15960E-05	469533.2	3777256.3	389.7	3.50	11.91	3.26	YES	
L0000612	0	0.15960E-05	469556.8	3777266.3	389.5	3.50	11.91	3.26	YES	
L0000613	0	0.15960E-05	469579.5	3777278.1	387.2	3.50	11.91	3.26	YES	
L0000614	0	0.15960E-05	469602.2	3777290.0	382.2	3.50	11.91	3.26	YES	
L0000615	0	0.15960E-05	469624.9	3777301.8	381.3	3.50	11.91	3.26	YES	
L0000616	0	0.15960E-05	469647.2	3777314.4	381.0	3.50	11.91	3.26	YES	
L0000617	0	0.15960E-05	469668.9	3777327.8	386.6	3.50	11.91	3.26	YES	
L0000618	0	0.15960E-05	469690.7	3777341.3	388.7	3.50	11.91	3.26	YES	
L0000619	0	0.15960E-05	469712.4	3777354.9	388.6	3.50	11.91	3.26	YES	
L0000620	0	0.15960E-05	469731.7	3777371.6	388.3	3.50	11.91	3.26	YES	
L0000621	0	0.15960E-05	469751.1	3777388.4	388.0	3.50	11.91	3.26	YES	
L0000622	0	0.15960E-05	469770.5	3777405.1	387.8	3.50	11.91	3.26	YES	
L0000623	0	0.15960E-05	469789.9	3777421.8	387.6	3.50	11.91	3.26	YES	
L0000624	0	0.15960E-05	469808.3	3777439.6	387.4	3.50	11.91	3.26	YES	
L0000625	0	0.15960E-05	469825.2	3777458.8	387.1	3.50	11.91	3.26	YES	
L0000626	0	0.15960E-05	469842.2	3777477.9	386.8	3.50	11.91	3.26	YES	
L0000627	0	0.15960E-05	469859.1	3777497.1	386.7	3.50	11.91	3.26	YES	
L0000628	0	0.15960E-05	469876.1	3777516.3	386.7	3.50	11.91	3.26	YES	
L0000629	0	0.15960E-05	469893.0	3777535.5	386.8	3.50	11.91	3.26	YES	
L0000630	0	0.15960E-05	469910.0	3777554.6	387.1	3.50	11.91	3.26	YES	

Model Output - Muscoy CWP Implemenation 2040

L0000631	0	0.15960E-05	469927.0	3777573.8	387.4	3.50	11.91	3.26	YES
L0000632	0	0.15960E-05	469943.9	3777593.0	387.8	3.50	11.91	3.26	YES
L0000633	0	0.14350E-05	468677.1	3777166.6	388.3	3.50	10.23	3.26	YES
L0000634	0	0.14350E-05	468699.0	3777163.8	388.3	3.50	10.23	3.26	YES
L0000635	0	0.14350E-05	468720.8	3777161.1	388.4	3.50	10.23	3.26	YES
L0000636	0	0.14350E-05	468742.6	3777158.3	388.5	3.50	10.23	3.26	YES
L0000637	0	0.14350E-05	468764.4	3777155.5	388.6	3.50	10.23	3.26	YES
L0000638	0	0.14350E-05	468786.3	3777152.8	388.7	3.50	10.23	3.26	YES
*** AERMOD - VERSION	19191	***	*** CWP Implementation, Muscoy, 2040						
*** AERMET - VERSION	16216	***	*** (Existing Plus Project - Existing No Project) > 100 trucks/day						

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0000639	0	0.14350E-05	468808.1	3777150.2	388.8	3.50	10.23	3.26	YES	
L0000640	0	0.14350E-05	468830.1	3777148.8	389.0	3.50	10.23	3.26	YES	
L0000641	0	0.14350E-05	468852.0	3777147.4	389.1	3.50	10.23	3.26	YES	
L0000642	0	0.14350E-05	468874.0	3777146.0	389.3	3.50	10.23	3.26	YES	
L0000643	0	0.14350E-05	468895.9	3777144.6	389.5	3.50	10.23	3.26	YES	
L0000644	0	0.14350E-05	468917.9	3777143.2	389.7	3.50	10.23	3.26	YES	
L0000645	0	0.14350E-05	468939.8	3777141.7	389.9	3.50	10.23	3.26	YES	
L0000646	0	0.14350E-05	468961.8	3777141.0	390.0	3.50	10.23	3.26	YES	
L0000647	0	0.14350E-05	468983.8	3777140.2	390.1	3.50	10.23	3.26	YES	
L0000648	0	0.14350E-05	469005.8	3777139.5	390.3	3.50	10.23	3.26	YES	
L0000649	0	0.14350E-05	469027.8	3777138.8	390.5	3.50	10.23	3.26	YES	
L0000650	0	0.14350E-05	469049.8	3777138.1	386.1	3.50	10.23	3.26	YES	
L0000651	0	0.14350E-05	469071.8	3777139.0	382.9	3.50	10.23	3.26	YES	
L0000652	0	0.14350E-05	469093.7	3777140.1	387.9	3.50	10.23	3.26	YES	
L0000653	0	0.14350E-05	469115.6	3777141.9	391.0	3.50	10.23	3.26	YES	
L0000654	0	0.14350E-05	469137.6	3777143.8	391.1	3.50	10.23	3.26	YES	
L0000655	0	0.14350E-05	469159.5	3777145.7	391.2	3.50	10.23	3.26	YES	
L0000656	0	0.14350E-05	469181.4	3777147.6	391.3	3.50	10.23	3.26	YES	
L0000657	0	0.14350E-05	469203.1	3777151.0	391.3	3.50	10.23	3.26	YES	
L0000658	0	0.14350E-05	469224.5	3777156.0	391.2	3.50	10.23	3.26	YES	
L0000659	0	0.14350E-05	469245.9	3777161.1	391.2	3.50	10.23	3.26	YES	
L0000660	0	0.14350E-05	469267.3	3777166.1	391.1	3.50	10.23	3.26	YES	
L0000661	0	0.14350E-05	469288.7	3777171.2	391.1	3.50	10.23	3.26	YES	
L0000662	0	0.14350E-05	469310.0	3777176.9	391.0	3.50	10.23	3.26	YES	
L0000663	0	0.14350E-05	469331.2	3777182.6	390.9	3.50	10.23	3.26	YES	
L0000664	0	0.14350E-05	469352.5	3777188.4	390.9	3.50	10.23	3.26	YES	
L0000665	0	0.14350E-05	469373.7	3777194.1	390.8	3.50	10.23	3.26	YES	
L0000666	0	0.14350E-05	469394.9	3777199.8	390.7	3.50	10.23	3.26	YES	
L0000667	0	0.14350E-05	469415.6	3777207.3	390.5	3.50	10.23	3.26	YES	
L0000668	0	0.14350E-05	469436.0	3777215.5	390.4	3.50	10.23	3.26	YES	

Model Output - Muscoy CWP Implementation 2040

L0000669	0	0.14350E-05	469456.4	3777223.7	386.6	3.50	10.23	3.26	YES
L0000670	0	0.13850E-05	467523.7	3777127.4	400.7	3.50	10.09	3.26	YES
L0000671	0	0.13850E-05	467545.4	3777126.9	400.4	3.50	10.09	3.26	YES
L0000672	0	0.13850E-05	467567.1	3777126.4	400.1	3.50	10.09	3.26	YES
L0000673	0	0.13850E-05	467588.8	3777125.9	399.8	3.50	10.09	3.26	YES
L0000674	0	0.13850E-05	467610.5	3777125.6	399.5	3.50	10.09	3.26	YES
L0000675	0	0.13850E-05	467632.2	3777126.1	399.2	3.50	10.09	3.26	YES
L0000676	0	0.13850E-05	467653.9	3777126.6	398.9	3.50	10.09	3.26	YES
L0000677	0	0.13850E-05	467675.6	3777127.1	398.5	3.50	10.09	3.26	YES
L0000678	0	0.13850E-05	467697.3	3777127.6	398.2	3.50	10.09	3.26	YES

*** AERMOD - VERSION 19191 *** *** CWP Implementation, Muscoy, 2040 ***

*** AERMET - VERSION 16216 *** *** (Existing Plus Project - Existing No Project) > 100 trucks/day ***

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0000679	0	0.13850E-05	467718.8	3777129.9	397.9	3.50	10.09	3.26	YES	
L0000680	0	0.13850E-05	467740.4	3777132.5	397.5	3.50	10.09	3.26	YES	
L0000681	0	0.13850E-05	467761.9	3777135.1	397.1	3.50	10.09	3.26	YES	
L0000682	0	0.13850E-05	467783.5	3777137.7	396.7	3.50	10.09	3.26	YES	
L0000683	0	0.13850E-05	467805.0	3777140.2	396.3	3.50	10.09	3.26	YES	
L0000684	0	0.13850E-05	467826.5	3777142.8	396.0	3.50	10.09	3.26	YES	
L0000685	0	0.13850E-05	467848.1	3777145.4	395.8	3.50	10.09	3.26	YES	
L0000686	0	0.13850E-05	467869.6	3777148.0	395.4	3.50	10.09	3.26	YES	
L0000687	0	0.13850E-05	467891.1	3777150.9	395.2	3.50	10.09	3.26	YES	
L0000688	0	0.13850E-05	467912.6	3777154.1	394.9	3.50	10.09	3.26	YES	
L0000689	0	0.13850E-05	467934.1	3777157.3	390.5	3.50	10.09	3.26	YES	
L0000690	0	0.13850E-05	467955.5	3777160.4	385.5	3.50	10.09	3.26	YES	
L0000691	0	0.13850E-05	467977.0	3777163.6	385.6	3.50	10.09	3.26	YES	
L0000692	0	0.13850E-05	467998.5	3777166.8	385.6	3.50	10.09	3.26	YES	
L0000693	0	0.13850E-05	468020.0	3777169.6	385.1	3.50	10.09	3.26	YES	
L0000694	0	0.13850E-05	468041.6	3777171.8	385.0	3.50	10.09	3.26	YES	
L0000695	0	0.13850E-05	468063.2	3777174.0	384.9	3.50	10.09	3.26	YES	
L0000696	0	0.13850E-05	468084.8	3777176.2	386.6	3.50	10.09	3.26	YES	
L0000697	0	0.13850E-05	468106.3	3777178.4	391.5	3.50	10.09	3.26	YES	
L0000698	0	0.13850E-05	468128.0	3777179.5	391.4	3.50	10.09	3.26	YES	
L0000699	0	0.13850E-05	468149.7	3777179.5	391.1	3.50	10.09	3.26	YES	
L0000700	0	0.13850E-05	468171.4	3777179.5	390.9	3.50	10.09	3.26	YES	
L0000701	0	0.13850E-05	468193.1	3777179.5	390.7	3.50	10.09	3.26	YES	
L0000702	0	0.13850E-05	468214.8	3777179.5	390.5	3.50	10.09	3.26	YES	
L0000703	0	0.13850E-05	468236.5	3777179.5	390.4	3.50	10.09	3.26	YES	
L0000704	0	0.13850E-05	468258.2	3777179.5	390.2	3.50	10.09	3.26	YES	
L0000705	0	0.13850E-05	468279.9	3777179.5	390.1	3.50	10.09	3.26	YES	
L0000706	0	0.13850E-05	468301.6	3777179.5	390.0	3.50	10.09	3.26	YES	

Model Output - Muscoy CWP Implemenation 2040

L0000707	0	0.13850E-05	468323.3	3777179.5	390.0	3.50	10.09	3.26	YES
L0000708	0	0.13850E-05	468345.0	3777179.5	389.9	3.50	10.09	3.26	YES
L0000709	0	0.13850E-05	468366.7	3777179.5	389.8	3.50	10.09	3.26	YES
L0000710	0	0.13850E-05	468388.4	3777179.5	389.8	3.50	10.09	3.26	YES
L0000711	0	0.13850E-05	468410.1	3777178.6	389.7	3.50	10.09	3.26	YES
L0000712	0	0.13850E-05	468431.7	3777177.4	389.7	3.50	10.09	3.26	YES
L0000713	0	0.13850E-05	468453.4	3777176.2	389.6	3.50	10.09	3.26	YES
L0000714	0	0.13850E-05	468475.1	3777175.0	389.4	3.50	10.09	3.26	YES
L0000715	0	0.13850E-05	468496.7	3777173.8	389.3	3.50	10.09	3.26	YES
L0000716	0	0.13850E-05	468518.4	3777172.6	389.1	3.50	10.09	3.26	YES
L0000717	0	0.13850E-05	468540.1	3777171.4	389.0	3.50	10.09	3.26	YES
L0000718	0	0.13850E-05	468561.7	3777170.2	388.8	3.50	10.09	3.26	YES

*** AERMOD - VERSION 19191 *** *** CWP Implementation, Muscoy, 2040 ***
 *** AERMET - VERSION 16216 *** *** (Existing Plus Project - Existing No Project) > 100 trucks/day ***

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0000719	0	0.13850E-05	468583.4	3777168.9	388.7	3.50	10.09	3.26	YES	
L0000720	0	0.13850E-05	468605.0	3777167.6	388.6	3.50	10.09	3.26	YES	
L0000721	0	0.13850E-05	468626.7	3777166.3	388.5	3.50	10.09	3.26	YES	
L0000722	0	0.13850E-05	468648.4	3777165.0	388.4	3.50	10.09	3.26	YES	
L0000723	0	0.15540E-05	468440.2	3777143.7	389.0	3.50	11.16	3.26	YES	
L0000724	0	0.15540E-05	468416.2	3777144.8	389.0	3.50	11.16	3.26	YES	
L0000725	0	0.15540E-05	468392.2	3777145.9	389.1	3.50	11.16	3.26	YES	
L0000726	0	0.15540E-05	468368.3	3777147.0	389.2	3.50	11.16	3.26	YES	
L0000727	0	0.15540E-05	468344.3	3777148.2	389.3	3.50	11.16	3.26	YES	
L0000728	0	0.15540E-05	468320.3	3777149.3	389.2	3.50	11.16	3.26	YES	
L0000729	0	0.15540E-05	468296.3	3777150.4	389.3	3.50	11.16	3.26	YES	
L0000730	0	0.15540E-05	468272.3	3777151.0	389.4	3.50	11.16	3.26	YES	
L0000731	0	0.15540E-05	468248.4	3777151.5	389.6	3.50	11.16	3.26	YES	
L0000732	0	0.15540E-05	468224.4	3777152.0	390.2	3.50	11.16	3.26	YES	
L0000733	0	0.15540E-05	468200.4	3777152.4	390.1	3.50	11.16	3.26	YES	
L0000734	0	0.15540E-05	468176.4	3777152.4	390.3	3.50	11.16	3.26	YES	
L0000735	0	0.15540E-05	468152.4	3777152.4	390.6	3.50	11.16	3.26	YES	
L0000736	0	0.15540E-05	468128.4	3777152.4	390.9	3.50	11.16	3.26	YES	
L0000737	0	0.15540E-05	468104.5	3777150.4	387.3	3.50	11.16	3.26	YES	
L0000738	0	0.15540E-05	468080.6	3777147.6	384.6	3.50	11.16	3.26	YES	
L0000739	0	0.15540E-05	468056.8	3777144.7	384.9	3.50	11.16	3.26	YES	
L0000740	0	0.15540E-05	468033.0	3777141.8	385.1	3.50	11.16	3.26	YES	
L0000741	0	0.15540E-05	468009.2	3777138.9	385.3	3.50	11.16	3.26	YES	
L0000742	0	0.15540E-05	467985.4	3777135.9	385.4	3.50	11.16	3.26	YES	
L0000743	0	0.15540E-05	467961.5	3777133.0	386.4	3.50	11.16	3.26	YES	
L0000744	0	0.15540E-05	467937.7	3777130.1	393.4	3.50	11.16	3.26	YES	

Model Output - Muscoy CWP Implemenation 2040

L0000745	0	0.15540E-05	467913.9	3777127.1	394.6	3.50	11.16	3.26	YES	
L0000746	0	0.15540E-05	467890.1	3777124.2	395.0	3.50	11.16	3.26	YES	
L0000747	0	0.15540E-05	467866.3	3777121.3	395.5	3.50	11.16	3.26	YES	
L0000748	0	0.15540E-05	467842.4	3777118.3	396.1	3.50	11.16	3.26	YES	
L0000749	0	0.15540E-05	467818.6	3777115.4	396.6	3.50	11.16	3.26	YES	
L0000750	0	0.15540E-05	467794.8	3777112.5	397.0	3.50	11.16	3.26	YES	
L0000751	0	0.15540E-05	467771.0	3777109.5	397.5	3.50	11.16	3.26	YES	
L0000752	0	0.15540E-05	467747.2	3777106.6	397.9	3.50	11.16	3.26	YES	
L0000753	0	0.15540E-05	467723.3	3777103.7	398.4	3.50	11.16	3.26	YES	
L0000754	0	0.15540E-05	467699.5	3777100.7	398.8	3.50	11.16	3.26	YES	
L0000755	0	0.15540E-05	467675.7	3777098.2	399.2	3.50	11.16	3.26	YES	
L0000756	0	0.15540E-05	467651.7	3777096.5	399.5	3.50	11.16	3.26	YES	
L0000757	0	0.15540E-05	467627.8	3777095.3	399.9	3.50	11.16	3.26	YES	
L0000758	0	0.15540E-05	467603.8	3777096.0	400.2	3.50	11.16	3.26	YES	
*** AERMOD - VERSION	19191	***	*** CWP Implementation, Muscoy, 2040							***
*** AERMET - VERSION	16216	***	*** (Existing Plus Project - Existing No Project) > 100 trucks/day							***

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0000759	0	0.15540E-05	467579.8	3777096.7	400.5	3.50	11.16	3.26	YES	
L0000760	0	0.15540E-05	467555.8	3777097.5	400.9	3.50	11.16	3.26	YES	
L0000761	0	0.15540E-05	467531.8	3777098.2	401.2	3.50	11.16	3.26	YES	
L0000762	0	0.99490E-06	468471.9	3777142.6	388.9	3.50	9.77	3.26	YES	
L0000763	0	0.99490E-06	468492.9	3777141.4	388.8	3.50	9.77	3.26	YES	
L0000764	0	0.99490E-06	468513.8	3777140.3	388.8	3.50	9.77	3.26	YES	
L0000765	0	0.99490E-06	468534.8	3777139.1	388.7	3.50	9.77	3.26	YES	
L0000766	0	0.99490E-06	468555.8	3777138.0	388.7	3.50	9.77	3.26	YES	
L0000767	0	0.99490E-06	468576.7	3777136.8	388.6	3.50	9.77	3.26	YES	
L0000768	0	0.99490E-06	468597.7	3777135.7	388.6	3.50	9.77	3.26	YES	
L0000769	0	0.99490E-06	468618.7	3777134.5	388.5	3.50	9.77	3.26	YES	
L0000770	0	0.99490E-06	468639.6	3777133.2	388.4	3.50	9.77	3.26	YES	
L0000771	0	0.99490E-06	468660.6	3777131.7	388.4	3.50	9.77	3.26	YES	
L0000772	0	0.99490E-06	468681.5	3777130.1	388.4	3.50	9.77	3.26	YES	
L0000773	0	0.99490E-06	468702.5	3777128.6	388.4	3.50	9.77	3.26	YES	
L0000774	0	0.99490E-06	468723.4	3777127.1	388.4	3.50	9.77	3.26	YES	
L0000775	0	0.99490E-06	468744.3	3777125.6	388.5	3.50	9.77	3.26	YES	
L0000776	0	0.99490E-06	468765.3	3777124.1	388.6	3.50	9.77	3.26	YES	
L0000777	0	0.99490E-06	468786.2	3777122.5	388.7	3.50	9.77	3.26	YES	
L0000778	0	0.99490E-06	468807.2	3777121.0	388.8	3.50	9.77	3.26	YES	
L0000779	0	0.99490E-06	468828.1	3777119.5	389.0	3.50	9.77	3.26	YES	
L0000780	0	0.99490E-06	468849.1	3777118.0	389.2	3.50	9.77	3.26	YES	
L0000781	0	0.99490E-06	468870.0	3777116.6	389.5	3.50	9.77	3.26	YES	
L0000782	0	0.99490E-06	468891.0	3777115.4	389.8	3.50	9.77	3.26	YES	

Model Output - Muscoy CWP Implemenation 2040

L0000783	0	0.99490E-06	468912.0	3777114.2	390.1	3.50	9.77	3.26	YES
L0000784	0	0.99490E-06	468932.9	3777113.0	390.4	3.50	9.77	3.26	YES
L0000785	0	0.99490E-06	468953.9	3777111.8	390.6	3.50	9.77	3.26	YES
L0000786	0	0.99490E-06	468974.9	3777110.6	390.9	3.50	9.77	3.26	YES
L0000787	0	0.99490E-06	468995.8	3777109.4	391.1	3.50	9.77	3.26	YES
L0000788	0	0.99490E-06	469016.8	3777108.2	391.3	3.50	9.77	3.26	YES
L0000789	0	0.99490E-06	469037.8	3777106.9	390.7	3.50	9.77	3.26	YES
L0000790	0	0.99490E-06	469058.7	3777106.9	382.7	3.50	9.77	3.26	YES
L0000791	0	0.99490E-06	469079.6	3777108.7	382.9	3.50	9.77	3.26	YES
L0000792	0	0.99490E-06	469100.5	3777110.6	391.1	3.50	9.77	3.26	YES
L0000793	0	0.99490E-06	469121.5	3777112.5	392.0	3.50	9.77	3.26	YES
L0000794	0	0.99490E-06	469142.4	3777114.3	392.1	3.50	9.77	3.26	YES
L0000795	0	0.99490E-06	469163.3	3777116.2	392.1	3.50	9.77	3.26	YES
L0000796	0	0.99490E-06	469184.2	3777118.1	392.2	3.50	9.77	3.26	YES
L0000797	0	0.99490E-06	469205.0	3777120.8	392.2	3.50	9.77	3.26	YES
L0000798	0	0.99490E-06	469225.6	3777124.8	392.2	3.50	9.77	3.26	YES

*** AERMOD - VERSION 19191 *** *** CWP Implementation, Muscoy, 2040
 *** AERMET - VERSION 16216 *** *** (Existing Plus Project - Existing No Project) > 100 trucks/day

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0000799	0	0.99490E-06	469246.2	3777128.9	392.2	3.50	9.77	3.26	YES	
L0000800	0	0.99490E-06	469266.8	3777132.9	392.1	3.50	9.77	3.26	YES	
L0000801	0	0.10830E-05	469298.2	3777140.6	392.1	3.50	10.98	3.26	YES	
L0000802	0	0.10830E-05	469321.1	3777146.6	392.0	3.50	10.98	3.26	YES	
L0000803	0	0.10830E-05	469343.9	3777152.7	391.9	3.50	10.98	3.26	YES	
L0000804	0	0.10830E-05	469366.7	3777158.7	391.8	3.50	10.98	3.26	YES	
L0000805	0	0.10830E-05	469389.4	3777165.0	391.7	3.50	10.98	3.26	YES	
L0000806	0	0.10830E-05	469411.9	3777172.4	391.6	3.50	10.98	3.26	YES	
L0000807	0	0.10830E-05	469434.3	3777179.7	391.4	3.50	10.98	3.26	YES	
L0000808	0	0.10830E-05	469456.7	3777187.1	386.5	3.50	10.98	3.26	YES	
L0000809	0	0.10830E-05	469479.1	3777194.4	383.1	3.50	10.98	3.26	YES	
L0000810	0	0.10830E-05	469501.5	3777201.8	391.1	3.50	10.98	3.26	YES	
L0000811	0	0.10830E-05	469523.0	3777211.7	391.0	3.50	10.98	3.26	YES	
L0000812	0	0.10830E-05	469544.3	3777221.7	390.8	3.50	10.98	3.26	YES	
L0000813	0	0.10830E-05	469565.7	3777231.8	390.7	3.50	10.98	3.26	YES	
L0000814	0	0.10830E-05	469587.0	3777241.8	390.6	3.50	10.98	3.26	YES	
L0000815	0	0.10830E-05	469608.4	3777251.9	390.5	3.50	10.98	3.26	YES	
L0000816	0	0.10830E-05	469629.6	3777262.1	390.1	3.50	10.98	3.26	YES	
L0000817	0	0.10830E-05	469649.4	3777275.0	385.2	3.50	10.98	3.26	YES	
L0000818	0	0.10830E-05	469669.1	3777287.9	380.7	3.50	10.98	3.26	YES	
L0000819	0	0.10830E-05	469688.9	3777300.8	380.5	3.50	10.98	3.26	YES	
L0000820	0	0.10830E-05	469708.6	3777313.8	382.6	3.50	10.98	3.26	YES	

Model Output - Muscoy CWP Implemenation 2040

L0000821	0	0.10830E-05	469728.0	3777327.2	388.4	3.50	10.98	3.26	YES
L0000822	0	0.10830E-05	469745.9	3777342.6	389.4	3.50	10.98	3.26	YES
L0000823	0	0.10830E-05	469763.7	3777358.0	389.2	3.50	10.98	3.26	YES
L0000824	0	0.10830E-05	469781.6	3777373.5	389.0	3.50	10.98	3.26	YES
L0000825	0	0.10830E-05	469799.5	3777388.9	388.9	3.50	10.98	3.26	YES
L0000826	0	0.10830E-05	469817.3	3777404.4	388.7	3.50	10.98	3.26	YES
L0000827	0	0.10830E-05	469835.1	3777419.9	388.5	3.50	10.98	3.26	YES
L0000828	0	0.10830E-05	469852.8	3777435.4	388.4	3.50	10.98	3.26	YES
L0000829	0	0.10830E-05	469870.6	3777450.9	388.2	3.50	10.98	3.26	YES
L0000830	0	0.10830E-05	469888.4	3777466.4	388.1	3.50	10.98	3.26	YES
L0000831	0	0.10830E-05	469906.2	3777482.0	387.9	3.50	10.98	3.26	YES
L0000832	0	0.10830E-05	469923.1	3777498.4	387.8	3.50	10.98	3.26	YES
L0000833	0	0.10830E-05	469940.0	3777514.9	387.6	3.50	10.98	3.26	YES
L0000834	0	0.10830E-05	469956.8	3777531.4	387.4	3.50	10.98	3.26	YES
L0000835	0	0.10830E-05	469973.7	3777547.9	387.3	3.50	10.98	3.26	YES
L0000836	0	0.10830E-05	469990.6	3777564.4	387.2	3.50	10.98	3.26	YES
L0000837	0	0.13590E-05	468572.3	3781037.7	454.9	3.50	8.65	3.26	YES
L0000838	0	0.13590E-05	468576.0	3781019.5	454.6	3.50	8.65	3.26	YES

*** AERMOD - VERSION 19191 *** CWP Implementation, Muscoy, 2040

*** AERMET - VERSION 16216 *** (Existing Plus Project - Existing No Project) > 100 trucks/day

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0000839	0	0.13590E-05	468579.8	3781001.3	454.3	3.50	8.65	3.26	YES	
L0000840	0	0.13590E-05	468583.6	3780983.1	453.9	3.50	8.65	3.26	YES	
L0000841	0	0.13590E-05	468587.4	3780964.9	453.6	3.50	8.65	3.26	YES	
L0000842	0	0.13590E-05	468592.2	3780946.9	453.1	3.50	8.65	3.26	YES	
L0000843	0	0.13590E-05	468597.5	3780929.1	452.8	3.50	8.65	3.26	YES	
L0000844	0	0.13590E-05	468602.9	3780911.3	452.4	3.50	8.65	3.26	YES	
L0000845	0	0.13590E-05	468611.4	3780895.2	452.0	3.50	8.65	3.26	YES	
L0000846	0	0.13590E-05	468622.9	3780880.5	451.6	3.50	8.65	3.26	YES	
L0000847	0	0.13590E-05	468634.4	3780865.9	451.2	3.50	8.65	3.26	YES	
L0000848	0	0.13590E-05	468645.9	3780851.3	450.8	3.50	8.65	3.26	YES	
L0000849	0	0.13590E-05	468657.4	3780836.7	450.4	3.50	8.65	3.26	YES	
L0000850	0	0.13590E-05	468668.9	3780822.1	450.0	3.50	8.65	3.26	YES	
L0000851	0	0.13590E-05	468680.4	3780807.4	449.6	3.50	8.65	3.26	YES	
L0000852	0	0.13590E-05	468691.9	3780792.8	449.2	3.50	8.65	3.26	YES	
L0000853	0	0.13590E-05	468703.4	3780778.2	448.8	3.50	8.65	3.26	YES	
L0000854	0	0.13590E-05	468714.9	3780763.6	448.4	3.50	8.65	3.26	YES	
L0000855	0	0.13590E-05	468726.4	3780748.9	448.1	3.50	8.65	3.26	YES	
L0000856	0	0.13590E-05	468737.9	3780734.3	447.6	3.50	8.65	3.26	YES	
L0000857	0	0.13590E-05	468749.4	3780719.7	447.2	3.50	8.65	3.26	YES	
L0000858	0	0.13590E-05	468760.9	3780705.1	446.9	3.50	8.65	3.26	YES	

Model Output - Muscoy CWP Implemenation 2040

L0000859	0	0.13590E-05	468772.4	3780690.4	446.5	3.50	8.65	3.26	YES
L0000860	0	0.13590E-05	468783.9	3780675.8	446.1	3.50	8.65	3.26	YES
L0000861	0	0.13590E-05	468795.4	3780661.2	445.7	3.50	8.65	3.26	YES
L0000862	0	0.13590E-05	468806.9	3780646.6	445.3	3.50	8.65	3.26	YES
L0000863	0	0.13590E-05	468818.4	3780632.0	444.9	3.50	8.65	3.26	YES
L0000864	0	0.13590E-05	468829.8	3780617.3	444.5	3.50	8.65	3.26	YES
L0000865	0	0.13590E-05	468841.3	3780602.7	444.2	3.50	8.65	3.26	YES
L0000866	0	0.13590E-05	468852.8	3780588.1	443.7	3.50	8.65	3.26	YES
L0000867	0	0.13590E-05	468864.3	3780573.5	443.3	3.50	8.65	3.26	YES
L0000868	0	0.13590E-05	468875.8	3780558.8	442.9	3.50	8.65	3.26	YES
L0000869	0	0.13590E-05	468887.3	3780544.2	442.6	3.50	8.65	3.26	YES
L0000870	0	0.13590E-05	468898.8	3780529.6	442.1	3.50	8.65	3.26	YES
L0000871	0	0.13590E-05	468910.4	3780515.0	441.7	3.50	8.65	3.26	YES
L0000872	0	0.13590E-05	468922.0	3780500.5	441.3	3.50	8.65	3.26	YES
L0000873	0	0.13590E-05	468933.5	3780485.9	440.9	3.50	8.65	3.26	YES
L0000874	0	0.13590E-05	468945.1	3780471.3	440.5	3.50	8.65	3.26	YES
L0000875	0	0.13590E-05	468956.7	3780456.8	440.2	3.50	8.65	3.26	YES
L0000876	0	0.13590E-05	468968.2	3780442.2	439.7	3.50	8.65	3.26	YES
L0000877	0	0.13590E-05	468979.8	3780427.7	439.4	3.50	8.65	3.26	YES
L0000878	0	0.13590E-05	468991.4	3780413.1	439.0	3.50	8.65	3.26	YES

*** AERMOD - VERSION 19191 *** *** CWP Implementation, Muscoy, 2040 ***
 *** AERMET - VERSION 16216 *** *** (Existing Plus Project - Existing No Project) > 100 trucks/day ***

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0000879	0	0.13590E-05	469002.9	3780398.5	438.6	3.50	8.65	3.26	YES	
L0000880	0	0.13590E-05	469014.5	3780384.0	438.2	3.50	8.65	3.26	YES	
L0000881	0	0.13590E-05	469026.1	3780369.4	437.8	3.50	8.65	3.26	YES	
L0000882	0	0.13590E-05	469037.7	3780354.8	437.4	3.50	8.65	3.26	YES	
L0000883	0	0.13590E-05	469049.2	3780340.3	437.2	3.50	8.65	3.26	YES	
L0000884	0	0.13590E-05	469060.8	3780325.7	437.0	3.50	8.65	3.26	YES	
L0000885	0	0.13590E-05	469072.4	3780311.1	436.9	3.50	8.65	3.26	YES	
L0000886	0	0.13590E-05	469083.9	3780296.6	436.8	3.50	8.65	3.26	YES	
L0000887	0	0.13590E-05	469095.5	3780282.0	436.7	3.50	8.65	3.26	YES	
L0000888	0	0.13590E-05	469108.0	3780268.4	436.7	3.50	8.65	3.26	YES	
L0000889	0	0.13590E-05	469123.0	3780257.4	436.5	3.50	8.65	3.26	YES	
L0000890	0	0.13590E-05	469138.0	3780246.5	436.5	3.50	8.65	3.26	YES	
L0000891	0	0.13590E-05	469153.1	3780235.5	436.4	3.50	8.65	3.26	YES	
L0000892	0	0.13590E-05	469168.1	3780224.5	436.1	3.50	8.65	3.26	YES	
L0000893	0	0.48500E-07	468644.9	3777117.9	388.1	3.50	3.49	3.26	YES	
L0000894	0	0.48500E-07	468652.3	3777116.6	388.0	3.50	3.49	3.26	YES	
L0000895	0	0.48500E-07	468659.7	3777115.2	388.0	3.50	3.49	3.26	YES	
L0000896	0	0.48500E-07	468667.0	3777113.8	388.0	3.50	3.49	3.26	YES	

Model Output - Muscoy
CWP Implemenation 2040

L0000897	0	0.48500E-07	468674.4	3777112.5	387.9	3.50	3.49	3.26	YES
L0000898	0	0.48500E-07	468681.8	3777111.1	387.9	3.50	3.49	3.26	YES
L0000899	0	0.48500E-07	468689.2	3777109.8	387.8	3.50	3.49	3.26	YES
L0000900	0	0.48500E-07	468696.5	3777108.4	387.7	3.50	3.49	3.26	YES
L0000901	0	0.48500E-07	468703.9	3777107.0	387.6	3.50	3.49	3.26	YES
L0000902	0	0.48500E-07	468711.3	3777105.7	387.5	3.50	3.49	3.26	YES
L0000903	0	0.48500E-07	468718.7	3777104.3	387.4	3.50	3.49	3.26	YES
L0000904	0	0.48500E-07	468726.0	3777102.7	387.4	3.50	3.49	3.26	YES
L0000905	0	0.48500E-07	468733.2	3777100.5	387.3	3.50	3.49	3.26	YES
L0000906	0	0.48500E-07	468740.3	3777098.4	387.2	3.50	3.49	3.26	YES
L0000907	0	0.48500E-07	468747.5	3777096.2	387.1	3.50	3.49	3.26	YES
L0000908	0	0.48500E-07	468754.7	3777094.1	387.0	3.50	3.49	3.26	YES
L0000909	0	0.48500E-07	468761.9	3777091.9	386.9	3.50	3.49	3.26	YES
L0000910	0	0.48500E-07	468768.7	3777088.9	386.9	3.50	3.49	3.26	YES
L0000911	0	0.48500E-07	468775.4	3777085.4	386.7	3.50	3.49	3.26	YES
L0000912	0	0.48500E-07	468782.0	3777082.0	386.5	3.50	3.49	3.26	YES
L0000913	0	0.48500E-07	468788.7	3777078.5	386.5	3.50	3.49	3.26	YES
L0000914	0	0.48500E-07	468795.4	3777075.1	386.3	3.50	3.49	3.26	YES
L0000915	0	0.48500E-07	468802.0	3777071.6	386.2	3.50	3.49	3.26	YES
L0000916	0	0.48500E-07	468808.2	3777067.4	386.1	3.50	3.49	3.26	YES
L0000917	0	0.48500E-07	468814.3	3777063.1	385.9	3.50	3.49	3.26	YES
L0000918	0	0.48500E-07	468820.4	3777058.7	385.8	3.50	3.49	3.26	YES

*** AERMOD - VERSION 19191 *** CWP Implementation, Muscoy, 2040

*** AERMET - VERSION 16216 *** (Existing Plus Project - Existing No Project) > 100 trucks/day

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0000919	0	0.48500E-07	468826.6	3777054.4	385.6	3.50	3.49	3.26	YES	
L0000920	0	0.48500E-07	468832.7	3777050.1	385.4	3.50	3.49	3.26	YES	
L0000921	0	0.48500E-07	468838.8	3777045.7	385.3	3.50	3.49	3.26	YES	
L0000922	0	0.48500E-07	468844.9	3777041.4	385.1	3.50	3.49	3.26	YES	
L0000923	0	0.48500E-07	468851.0	3777037.0	385.0	3.50	3.49	3.26	YES	
L0000924	0	0.48500E-07	468857.2	3777032.7	384.7	3.50	3.49	3.26	YES	
L0000925	0	0.48500E-07	468863.3	3777028.4	384.5	3.50	3.49	3.26	YES	
L0000926	0	0.48500E-07	468869.4	3777024.0	384.3	3.50	3.49	3.26	YES	
L0000927	0	0.48500E-07	468875.5	3777019.7	384.2	3.50	3.49	3.26	YES	
L0000928	0	0.48500E-07	468881.6	3777015.4	384.0	3.50	3.49	3.26	YES	
L0000929	0	0.48500E-07	468887.8	3777011.0	383.8	3.50	3.49	3.26	YES	
L0000930	0	0.48500E-07	468894.3	3777007.3	383.7	3.50	3.49	3.26	YES	
L0000931	0	0.48500E-07	468900.9	3777003.7	383.5	3.50	3.49	3.26	YES	
L0000932	0	0.48500E-07	468907.5	3777000.2	383.3	3.50	3.49	3.26	YES	
L0000933	0	0.48500E-07	468914.1	3776996.6	383.1	3.50	3.49	3.26	YES	
L0000934	0	0.48500E-07	468920.7	3776993.0	382.9	3.50	3.49	3.26	YES	

Model Output - Muscoy
CWP Implemenation 2040

L0000935	0	0.48500E-07	468927.3	3776989.5	382.8	3.50	3.49	3.26	YES
L0000936	0	0.48500E-07	468933.9	3776985.9	382.6	3.50	3.49	3.26	YES
L0000937	0	0.48500E-07	468940.5	3776982.3	382.3	3.50	3.49	3.26	YES
L0000938	0	0.48500E-07	468947.6	3776980.3	382.2	3.50	3.49	3.26	YES
L0000939	0	0.48500E-07	468954.9	3776978.8	382.0	3.50	3.49	3.26	YES
L0000940	0	0.48500E-07	468962.3	3776977.3	381.8	3.50	3.49	3.26	YES
L0000941	0	0.48500E-07	468969.6	3776975.8	381.6	3.50	3.49	3.26	YES
L0000942	0	0.48500E-07	468977.0	3776974.3	381.4	3.50	3.49	3.26	YES
L0000943	0	0.48500E-07	468984.5	3776973.8	381.1	3.50	3.49	3.26	YES
L0000944	0	0.48500E-07	468992.0	3776973.4	380.9	3.50	3.49	3.26	YES
L0000945	0	0.48500E-07	468999.4	3776973.0	380.8	3.50	3.49	3.26	YES
L0000946	0	0.48500E-07	469006.9	3776972.5	380.6	3.50	3.49	3.26	YES
L0000947	0	0.48500E-07	469014.4	3776972.1	380.5	3.50	3.49	3.26	YES
L0000948	0	0.48500E-07	469021.9	3776971.7	380.4	3.50	3.49	3.26	YES
L0000949	0	0.48500E-07	469029.4	3776971.2	380.4	3.50	3.49	3.26	YES
L0000950	0	0.48500E-07	469036.9	3776970.8	380.4	3.50	3.49	3.26	YES
L0000951	0	0.48500E-07	469044.4	3776970.4	380.4	3.50	3.49	3.26	YES
L0000952	0	0.48500E-07	469051.9	3776970.0	380.5	3.50	3.49	3.26	YES
L0000953	0	0.18750E-06	469068.0	3777071.1	382.0	3.50	13.49	3.26	YES
L0000954	0	0.18750E-06	469068.2	3777042.1	381.6	3.50	13.49	3.26	YES
L0000955	0	0.18750E-06	469068.4	3777013.1	381.2	3.50	13.49	3.26	YES
L0000956	0	0.18750E-06	469068.5	3776984.1	380.8	3.50	13.49	3.26	YES

Model Output - Muscoy CWP Implementation 2040

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*** AERMOD - VERSION 19191 ***    *** CWP Implementation, Muscoy, 2040    ***    05/15/20
*** AERMET - VERSION 16216 ***    *** (Existing Plus Project - Existing No Project) > 100 trucks/day ***    08:50:17
*** MODELOPTs:      RegDFAULT CONC ELEV URBAN ADJ_U*    ***    PAGE 14
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*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
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ALL	All Volume Sources L0000479 hru L0000956
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*** AERMOD - VERSION 19191 ***    *** CWP Implementation, Muscoy, 2040    ***    05/15/20
*** AERMET - VERSION 16216 ***    *** (Existing Plus Project - Existing No Project) > 100 trucks/day ***    08:50:17
*** MODELOPTs:      RegDFAULT CONC ELEV URBAN ADJ_U*    ***    PAGE 17
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*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
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	2035210.	
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Model Output - Muscoy CWP Implemenation 2040

*** AERMOD - VERSION 19191 *** *** CWP Implementation, Muscoy, 2040
*** AERMET - VERSION 16216 *** *** (Existing Plus Project - Existing No Project) > 100 trucks/day
*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(469148.2, 3777316.1,	385.4,	385.4,	0.0);	(469198.2, 3777316.1,	385.2,	385.2,	0.0);
(469148.2, 3777366.1,	385.9,	385.9,	0.0);	(469198.2, 3777366.1,	386.1,	386.1,	0.0);
(468848.2, 3777416.1,	388.4,	388.4,	0.0);	(468898.2, 3777416.1,	387.8,	387.8,	0.0);
(468948.2, 3777416.1,	387.7,	387.7,	0.0);	(468998.2, 3777416.1,	387.2,	387.2,	0.0);
(469048.2, 3777416.1,	387.1,	387.1,	0.0);	(469098.2, 3777416.1,	386.7,	386.7,	0.0);
(469148.2, 3777416.1,	386.7,	386.7,	0.0);	(469198.2, 3777416.1,	386.6,	386.6,	0.0);
(469248.2, 3777416.1,	386.2,	386.2,	0.0);	(469298.2, 3777416.1,	385.8,	385.8,	0.0);
(469348.2, 3777416.1,	385.4,	385.4,	0.0);	(469398.2, 3777416.1,	385.0,	385.0,	0.0);
(469448.2, 3777416.1,	384.5,	384.5,	0.0);	(468848.2, 3777466.1,	389.2,	389.2,	0.0);
(468898.2, 3777466.1,	388.6,	388.6,	0.0);	(468948.2, 3777466.1,	388.4,	388.4,	0.0);
(468998.2, 3777466.1,	388.1,	388.1,	0.0);	(469048.2, 3777466.1,	387.8,	387.8,	0.0);
(469098.2, 3777466.1,	387.4,	387.4,	0.0);	(469148.2, 3777466.1,	387.4,	387.4,	0.0);
(469198.2, 3777466.1,	387.2,	387.2,	0.0);	(469248.2, 3777466.1,	386.8,	386.8,	0.0);
(469298.2, 3777466.1,	386.4,	386.4,	0.0);	(469348.2, 3777466.1,	386.0,	386.0,	0.0);
(469398.2, 3777466.1,	385.6,	385.6,	0.0);	(469448.2, 3777466.1,	385.2,	385.2,	0.0);
(468698.2, 3777516.1,	391.1,	391.1,	0.0);	(468748.2, 3777516.1,	390.6,	390.6,	0.0);
(468798.2, 3777516.1,	390.4,	390.4,	0.0);	(468848.2, 3777516.1,	389.8,	389.8,	0.0);
(468898.2, 3777516.1,	389.5,	389.5,	0.0);	(468948.2, 3777516.1,	389.4,	389.4,	0.0);
(468998.2, 3777516.1,	389.1,	389.1,	0.0);	(469048.2, 3777516.1,	388.7,	388.7,	0.0);
(469098.2, 3777516.1,	388.3,	388.3,	0.0);	(469148.2, 3777516.1,	388.3,	388.3,	0.0);
(469198.2, 3777516.1,	387.9,	387.9,	0.0);	(469248.2, 3777516.1,	387.7,	387.7,	0.0);
(469298.2, 3777516.1,	387.4,	387.4,	0.0);	(469348.2, 3777516.1,	386.9,	386.9,	0.0);
(469398.2, 3777516.1,	386.3,	386.3,	0.0);	(469448.2, 3777516.1,	385.6,	385.6,	0.0);
(468648.2, 3777566.1,	392.1,	392.1,	0.0);	(468698.2, 3777566.1,	391.7,	391.7,	0.0);
(468748.2, 3777566.1,	391.5,	391.5,	0.0);	(468798.2, 3777566.1,	391.2,	391.2,	0.0);
(468848.2, 3777566.1,	390.6,	390.6,	0.0);	(468898.2, 3777566.1,	390.2,	390.2,	0.0);
(468948.2, 3777566.1,	390.2,	390.2,	0.0);	(468998.2, 3777566.1,	389.9,	389.9,	0.0);
(469048.2, 3777566.1,	389.6,	389.6,	0.0);	(469098.2, 3777566.1,	389.4,	389.4,	0.0);
(469148.2, 3777566.1,	389.1,	389.1,	0.0);	(469198.2, 3777566.1,	388.7,	388.7,	0.0);
(469248.2, 3777566.1,	388.5,	388.5,	0.0);	(469298.2, 3777566.1,	388.1,	388.1,	0.0);
(469348.2, 3777566.1,	387.5,	387.5,	0.0);	(469398.2, 3777566.1,	386.9,	386.9,	0.0);
(469448.2, 3777566.1,	386.3,	386.3,	0.0);	(468598.2, 3777616.1,	393.2,	393.2,	0.0);
(468648.2, 3777616.1,	392.8,	392.8,	0.0);	(468698.2, 3777616.1,	392.5,	392.5,	0.0);
(468748.2, 3777616.1,	392.1,	392.1,	0.0);	(468798.2, 3777616.1,	392.3,	392.3,	0.0);
(468848.2, 3777616.1,	391.6,	391.6,	0.0);	(468898.2, 3777616.1,	391.3,	391.3,	0.0);
(468948.2, 3777616.1,	391.0,	391.0,	0.0);	(468998.2, 3777616.1,	390.6,	390.6,	0.0);
(469048.2, 3777616.1,	390.7,	390.7,	0.0);	(469098.2, 3777616.1,	390.4,	390.4,	0.0);
(469148.2, 3777616.1,	389.8,	389.8,	0.0);	(469198.2, 3777616.1,	389.6,	389.6,	0.0);
(469248.2, 3777616.1,	389.2,	389.2,	0.0);	(469298.2, 3777616.1,	388.6,	388.6,	0.0);
(469348.2, 3777616.1,	387.9,	387.9,	0.0);	(469398.2, 3777616.1,	387.3,	387.3,	0.0);
(469448.2, 3777616.1,	386.6,	386.6,	0.0);	(468548.2, 3777666.1,	394.3,	394.3,	0.0);
(468598.2, 3777666.1,	394.0,	394.0,	0.0);	(468648.2, 3777666.1,	393.7,	393.7,	0.0);

Model Output - Muscoy CWP Implemenation 2040

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( 468698.2, 3777666.1, 393.2, 393.2, 0.0); ( 468748.2, 3777666.1, 392.9, 392.9, 0.0);
( 468798.2, 3777666.1, 393.1, 393.1, 0.0); ( 468848.2, 3777666.1, 392.7, 392.7, 0.0);
( 468898.2, 3777666.1, 392.3, 392.3, 0.0); ( 468948.2, 3777666.1, 392.0, 392.0, 0.0);
*** AERMOD - VERSION 19191 *** *** CWP Implementation, Muscoy, 2040 *** 05/15/20
*** AERMET - VERSION 16216 *** *** (Existing Plus Project - Existing No Project) > 100 trucks/day *** 08:50:17
*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U* *** PAGE 21

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

( 468998.2, 3777666.1, 391.5, 391.5, 0.0); ( 469048.2, 3777666.1, 391.4, 391.4, 0.0);
( 469098.2, 3777666.1, 391.0, 391.0, 0.0); ( 469148.2, 3777666.1, 390.6, 390.6, 0.0);
( 469198.2, 3777666.1, 390.3, 390.3, 0.0); ( 469248.2, 3777666.1, 389.9, 389.9, 0.0);
( 469298.2, 3777666.1, 389.0, 389.0, 0.0); ( 469348.2, 3777666.1, 388.2, 388.2, 0.0);
( 469398.2, 3777666.1, 387.7, 387.7, 0.0); ( 469448.2, 3777666.1, 387.2, 387.2, 0.0);
( 468498.2, 3777716.1, 395.4, 395.4, 0.0); ( 468548.2, 3777716.1, 394.9, 394.9, 0.0);
( 468598.2, 3777716.1, 394.7, 394.7, 0.0); ( 468648.2, 3777716.1, 394.4, 394.4, 0.0);
( 468698.2, 3777716.1, 394.0, 394.0, 0.0); ( 468748.2, 3777716.1, 393.9, 393.9, 0.0);
( 468798.2, 3777716.1, 393.8, 393.8, 0.0); ( 468848.2, 3777716.1, 393.6, 393.6, 0.0);
( 468898.2, 3777716.1, 393.4, 393.4, 0.0); ( 468948.2, 3777716.1, 392.8, 392.8, 0.0);
( 468998.2, 3777716.1, 392.5, 392.5, 0.0); ( 469048.2, 3777716.1, 392.2, 392.2, 0.0);
( 469098.2, 3777716.1, 391.8, 391.8, 0.0); ( 469148.2, 3777716.1, 391.3, 391.3, 0.0);
( 469198.2, 3777716.1, 390.9, 390.9, 0.0); ( 469248.2, 3777716.1, 390.3, 390.3, 0.0);
( 469298.2, 3777716.1, 389.5, 389.5, 0.0); ( 469348.2, 3777716.1, 388.8, 388.8, 0.0);
( 469398.2, 3777716.1, 388.1, 388.1, 0.0); ( 469448.2, 3777716.1, 387.3, 387.3, 0.0);
( 468673.0, 3778105.7, 401.2, 401.2, 0.0); ( 468723.0, 3778155.7, 400.4, 400.4, 0.0);
( 468773.0, 3778105.7, 399.7, 399.7, 0.0); ( 468823.0, 3778105.7, 399.1, 399.1, 0.0);
( 468873.0, 3778105.7, 398.7, 398.7, 0.0); ( 468923.0, 3778105.7, 398.3, 398.3, 0.0);
( 468973.0, 3778105.7, 397.6, 397.6, 0.0); ( 469023.0, 3778105.7, 396.9, 396.9, 0.0);
( 469055.0, 3778104.4, 396.6, 396.6, 0.0); ( 469101.2, 3778104.4, 396.3, 396.3, 0.0);
( 469151.2, 3778104.4, 396.0, 396.0, 0.0); ( 469201.2, 3778104.4, 395.5, 395.5, 0.0);
( 469251.2, 3778104.4, 395.2, 395.2, 0.0); ( 469301.2, 3778104.4, 394.4, 394.4, 0.0);
( 469351.2, 3778104.4, 393.6, 393.6, 0.0); ( 469401.2, 3778104.4, 393.4, 393.4, 0.0);
( 469451.2, 3778104.4, 393.2, 393.2, 0.0); ( 468673.0, 3778155.7, 401.7, 401.7, 0.0);
( 468723.0, 3778155.7, 401.0, 401.0, 0.0); ( 468773.0, 3778155.7, 400.2, 400.2, 0.0);
( 468823.0, 3778155.7, 399.6, 399.6, 0.0); ( 468873.0, 3778155.7, 399.5, 399.5, 0.0);
( 468923.0, 3778155.7, 398.8, 398.8, 0.0); ( 468973.0, 3778155.7, 398.1, 398.1, 0.0);
( 469023.0, 3778155.7, 397.5, 397.5, 0.0); ( 469055.0, 3778154.4, 397.4, 397.4, 0.0);
( 469101.2, 3778154.4, 397.2, 397.2, 0.0); ( 469151.2, 3778154.4, 397.0, 397.0, 0.0);
( 469201.2, 3778154.4, 396.4, 396.4, 0.0); ( 469251.2, 3778154.4, 395.9, 395.9, 0.0);
( 469301.2, 3778154.4, 394.6, 394.6, 0.0); ( 469351.2, 3778154.4, 394.1, 394.1, 0.0);
( 469401.2, 3778154.4, 394.2, 394.2, 0.0); ( 469451.2, 3778154.4, 394.0, 394.0, 0.0);
( 468673.0, 3778205.7, 402.2, 402.2, 0.0); ( 468723.0, 3778205.7, 401.6, 401.6, 0.0);
( 468773.0, 3778205.7, 401.0, 401.0, 0.0); ( 468823.0, 3778205.7, 400.3, 400.3, 0.0);
( 468873.0, 3778205.7, 400.0, 400.0, 0.0); ( 468923.0, 3778205.7, 399.3, 399.3, 0.0);
( 468973.0, 3778205.7, 398.9, 398.9, 0.0); ( 469023.0, 3778205.7, 398.3, 398.3, 0.0);
( 469055.0, 3778204.4, 398.2, 398.2, 0.0); ( 469101.2, 3778204.4, 398.0, 398.0, 0.0);
( 469151.2, 3778204.4, 397.7, 397.7, 0.0); ( 469201.2, 3778204.4, 396.9, 396.9, 0.0);
( 469251.2, 3778204.4, 396.6, 396.6, 0.0); ( 469301.2, 3778204.4, 395.5, 395.5, 0.0);
```

Model Output - Muscoy CWP Implemenation 2040

(469351.2, 3778204.4,	395.2,	395.2,	0.0);	(469401.2, 3778204.4,	395.1,	395.1,	0.0);
(469451.2, 3778204.4,	394.7,	394.7,	0.0);	(468673.0, 3778255.7,	402.8,	402.8,	0.0);
(468723.0, 3778255.7,	402.2,	402.2,	0.0);	(468773.0, 3778255.7,	401.5,	401.5,	0.0);
(468823.0, 3778255.7,	401.2,	401.2,	0.0);	(468873.0, 3778255.7,	400.6,	400.6,	0.0);
(468923.0, 3778255.7,	399.9,	399.9,	0.0);	(468973.0, 3778255.7,	399.5,	399.5,	0.0);
(469023.0, 3778255.7,	399.1,	399.1,	0.0);	(469055.0, 3778254.4,	399.1,	399.1,	0.0);
*** AERMOD - VERSION 19191 ***	*** CWP Implementation, Muscoy, 2040	***	05/15/20				
*** AERMET - VERSION 16216 ***	*** (Existing Plus Project - Existing No Project) > 100 trucks/day	***	08:50:17				
			PAGE 22				
*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*							

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(469101.2, 3778254.4,	398.9,	398.9,	0.0);	(469151.2, 3778254.4,	398.4,	398.4,	0.0);
(469201.2, 3778254.4,	397.6,	397.6,	0.0);	(469251.2, 3778254.4,	397.3,	397.3,	0.0);
(469301.2, 3778254.4,	396.7,	396.7,	0.0);	(469351.2, 3778254.4,	396.1,	396.1,	0.0);
(469401.2, 3778254.4,	395.8,	395.8,	0.0);	(469451.2, 3778254.4,	395.2,	395.2,	0.0);
(468673.0, 3778305.7,	403.4,	403.4,	0.0);	(468723.0, 3778305.7,	402.8,	402.8,	0.0);
(468773.0, 3778305.7,	402.4,	402.4,	0.0);	(468823.0, 3778305.7,	401.8,	401.8,	0.0);
(468873.0, 3778305.7,	401.0,	401.0,	0.0);	(468923.0, 3778305.7,	400.6,	400.6,	0.0);
(468973.0, 3778305.7,	400.2,	400.2,	0.0);	(469023.0, 3778305.7,	400.0,	400.0,	0.0);
(469055.0, 3778304.4,	399.9,	399.9,	0.0);	(469101.2, 3778304.4,	399.7,	399.7,	0.0);
(469151.2, 3778304.4,	398.9,	398.9,	0.0);	(469201.2, 3778304.4,	398.7,	398.7,	0.0);
(469251.2, 3778304.4,	398.3,	398.3,	0.0);	(469301.2, 3778304.4,	397.8,	397.8,	0.0);
(469351.2, 3778304.4,	396.8,	396.8,	0.0);	(469401.2, 3778304.4,	396.6,	396.6,	0.0);
(469451.2, 3778304.4,	396.2,	396.2,	0.0);	(468673.0, 3778355.7,	404.0,	404.0,	0.0);
(468723.0, 3778355.7,	403.6,	403.6,	0.0);	(468773.0, 3778355.7,	403.0,	403.0,	0.0);
(468823.0, 3778355.7,	402.3,	402.3,	0.0);	(468873.0, 3778355.7,	401.8,	401.8,	0.0);
(468923.0, 3778355.7,	401.7,	401.7,	0.0);	(468973.0, 3778355.7,	401.2,	401.2,	0.0);
(469023.0, 3778355.7,	401.0,	401.0,	0.0);	(469055.0, 3778354.4,	400.7,	400.7,	0.0);
(469101.2, 3778354.4,	400.3,	400.3,	0.0);	(469151.2, 3778354.4,	399.8,	399.8,	0.0);
(469201.2, 3778354.4,	399.6,	399.6,	0.0);	(469251.2, 3778354.4,	399.1,	399.1,	0.0);
(469301.2, 3778354.4,	398.3,	398.3,	0.0);	(469351.2, 3778354.4,	397.5,	397.5,	0.0);
(469401.2, 3778354.4,	397.6,	397.6,	0.0);	(469451.2, 3778354.4,	397.2,	397.2,	0.0);
(468673.0, 3778405.7,	404.7,	404.7,	0.0);	(468723.0, 3778405.7,	404.1,	404.1,	0.0);
(468773.0, 3778405.7,	403.5,	403.5,	0.0);	(468823.0, 3778405.7,	403.2,	403.2,	0.0);
(468873.0, 3778405.7,	403.0,	403.0,	0.0);	(468923.0, 3778405.7,	402.6,	402.6,	0.0);
(468973.0, 3778405.7,	401.9,	401.9,	0.0);	(469023.0, 3778405.7,	401.4,	401.4,	0.0);
(469055.0, 3778404.4,	401.4,	401.4,	0.0);	(469101.2, 3778404.4,	401.2,	401.2,	0.0);
(469151.2, 3778404.4,	400.8,	400.8,	0.0);	(469201.2, 3778404.4,	400.4,	400.4,	0.0);
(469251.2, 3778404.4,	399.8,	399.8,	0.0);	(469301.2, 3778404.4,	399.0,	399.0,	0.0);
(469351.2, 3778404.4,	398.4,	398.4,	0.0);	(469401.2, 3778404.4,	398.2,	398.2,	0.0);
(469451.2, 3778404.4,	397.7,	397.7,	0.0);	(468673.0, 3778455.7,	405.5,	405.5,	0.0);
(468723.0, 3778455.7,	405.0,	405.0,	0.0);	(468773.0, 3778455.7,	404.5,	404.5,	0.0);
(468823.0, 3778455.7,	404.4,	404.4,	0.0);	(468873.0, 3778455.7,	404.1,	404.1,	0.0);
(468923.0, 3778455.7,	403.4,	403.4,	0.0);	(468973.0, 3778455.7,	402.7,	402.7,	0.0);
(469023.0, 3778455.7,	402.6,	402.6,	0.0);	(469055.0, 3778454.4,	402.5,	402.5,	0.0);
(469101.2, 3778454.4,	402.3,	402.3,	0.0);	(469151.2, 3778454.4,	401.6,	401.6,	0.0);
(469201.2, 3778454.4,	401.2,	401.2,	0.0);	(469251.2, 3778454.4,	400.5,	400.5,	0.0);

Model Output - Muscoy CWP Implementation 2040

(469301.2, 3778454.4,	399.7,	399.7,	0.0);	(469351.2, 3778454.4,	399.3,	399.3,	0.0);
(469401.2, 3778454.4,	399.2,	399.2,	0.0);	(469451.2, 3778454.4,	398.8,	398.8,	0.0);
(468673.0, 3778505.7,	406.2,	406.2,	0.0);	(468723.0, 3778505.7,	405.8,	405.8,	0.0);
(468773.0, 3778505.7,	405.3,	405.3,	0.0);	(468823.0, 3778505.7,	404.7,	404.7,	0.0);
(468873.0, 3778505.7,	404.3,	404.3,	0.0);	(468923.0, 3778505.7,	403.8,	403.8,	0.0);
(468973.0, 3778505.7,	403.5,	403.5,	0.0);	(469023.0, 3778505.7,	403.4,	403.4,	0.0);
(469055.0, 3778504.4,	403.3,	403.3,	0.0);	(469101.2, 3778504.4,	402.8,	402.8,	0.0);
(469151.2, 3778504.4,	402.3,	402.3,	0.0);	(469201.2, 3778504.4,	401.7,	401.7,	0.0);
(469251.2, 3778504.4,	401.1,	401.1,	0.0);	(469301.2, 3778504.4,	400.6,	400.6,	0.0);
*** AERMOD - VERSION 19191 ***	*** CWP Implementation, Muscoy, 2040	***	05/15/20				
*** AERMET - VERSION 16216 ***	(Existing Plus Project - Existing No Project) > 100 trucks/day	***	08:50:17				
			PAGE 23				

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ U*

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*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
      (METERS)

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(469351.2, 3778504.4,	400.4,	400.4,	0.0);	(469401.2, 3778504.4,	400.1,	400.1,	0.0);
(469451.2, 3778504.4,	399.9,	399.9,	0.0);	(468673.0, 3778555.7,	407.1,	407.1,	0.0);
(468723.0, 3778555.7,	406.6,	406.6,	0.0);	(468773.0, 3778555.7,	406.1,	406.1,	0.0);
(468823.0, 3778555.7,	405.6,	405.6,	0.0);	(468873.0, 3778555.7,	405.0,	405.0,	0.0);
(468923.0, 3778555.7,	404.4,	404.4,	0.0);	(468973.0, 3778555.7,	404.6,	404.6,	0.0);
(469023.0, 3778555.7,	404.3,	404.3,	0.0);	(469055.0, 3778554.4,	404.0,	404.0,	0.0);
(469101.2, 3778554.4,	403.8,	403.8,	0.0);	(469151.2, 3778554.4,	403.2,	403.2,	0.0);
(469201.2, 3778554.4,	402.7,	402.7,	0.0);	(469251.2, 3778554.4,	401.9,	401.9,	0.0);
(469301.2, 3778554.4,	401.5,	401.5,	0.0);	(469351.2, 3778554.4,	401.4,	401.4,	0.0);
(469401.2, 3778554.4,	401.5,	401.5,	0.0);	(469451.2, 3778554.4,	401.4,	401.4,	0.0);
(468673.0, 3778605.7,	407.9,	407.9,	0.0);	(468723.0, 3778605.7,	407.2,	407.2,	0.0);
(468773.0, 3778605.7,	407.0,	407.0,	0.0);	(468823.0, 3778605.7,	406.3,	406.3,	0.0);
(468873.0, 3778605.7,	405.7,	405.7,	0.0);	(468923.0, 3778605.7,	405.4,	405.4,	0.0);
(468973.0, 3778605.7,	405.4,	405.4,	0.0);	(469023.0, 3778605.7,	405.2,	405.2,	0.0);
(469055.0, 3778604.4,	405.0,	405.0,	0.0);	(469101.2, 3778604.4,	404.6,	404.6,	0.0);
(469151.2, 3778604.4,	404.1,	404.1,	0.0);	(469201.2, 3778604.4,	403.4,	403.4,	0.0);
(469251.2, 3778604.4,	402.8,	402.8,	0.0);	(469301.2, 3778604.4,	402.5,	402.5,	0.0);
(469351.2, 3778604.4,	402.4,	402.4,	0.0);	(469401.2, 3778604.4,	402.9,	402.9,	0.0);
(469451.2, 3778604.4,	402.5,	402.5,	0.0);	(468673.0, 3778655.7,	408.7,	408.7,	0.0);
(468723.0, 3778655.7,	407.9,	407.9,	0.0);	(468773.0, 3778655.7,	407.6,	407.6,	0.0);
(468823.0, 3778655.7,	407.1,	407.1,	0.0);	(468873.0, 3778655.7,	406.7,	406.7,	0.0);
(468923.0, 3778655.7,	406.5,	406.5,	0.0);	(468973.0, 3778655.7,	406.3,	406.3,	0.0);
(469023.0, 3778655.7,	406.1,	406.1,	0.0);	(469055.0, 3778654.4,	405.9,	405.9,	0.0);
(469101.2, 3778654.4,	405.5,	405.5,	0.0);	(469151.2, 3778654.4,	404.9,	404.9,	0.0);
(469201.2, 3778654.4,	404.2,	404.2,	0.0);	(469251.2, 3778654.4,	403.8,	403.8,	0.0);
(469301.2, 3778654.4,	403.7,	403.7,	0.0);	(469351.2, 3778654.4,	403.6,	403.6,	0.0);
(469401.2, 3778654.4,	403.6,	403.6,	0.0);	(469451.2, 3778654.4,	403.5,	403.5,	0.0);
(468673.0, 3778705.7,	409.5,	409.5,	0.0);	(468723.0, 3778705.7,	409.1,	409.1,	0.0);
(468773.0, 3778705.7,	408.5,	408.5,	0.0);	(468823.0, 3778705.7,	408.0,	408.0,	0.0);
(468873.0, 3778705.7,	407.9,	407.9,	0.0);	(468923.0, 3778705.7,	407.3,	407.3,	0.0);
(468973.0, 3778705.7,	407.2,	407.2,	0.0);	(469023.0, 3778705.7,	407.2,	407.2,	0.0);
(469055.0, 3778704.4,	407.0,	407.0,	0.0);	(469101.2, 3778704.4,	406.4,	406.4,	0.0);
(469151.2, 3778704.4,	405.9,	405.9,	0.0);	(469201.2, 3778704.4,	405.0,	405.0,	0.0);

Model Output - Muscoy CWP Implemenation 2040

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( 469251.2, 3778704.4, 405.0, 405.0, 0.0); ( 469301.2, 3778704.4, 404.9, 404.9, 0.0);
( 469351.2, 3778704.4, 404.6, 404.6, 0.0); ( 469401.2, 3778704.4, 404.4, 404.4, 0.0);
( 469451.2, 3778704.4, 404.0, 404.0, 0.0); ( 468673.0, 3778755.7, 410.4, 410.4, 0.0);
( 468723.0, 3778755.7, 409.9, 409.9, 0.0); ( 468773.0, 3778755.7, 409.2, 409.2, 0.0);
( 468823.0, 3778755.7, 409.1, 409.1, 0.0); ( 468873.0, 3778755.7, 408.7, 408.7, 0.0);
( 468923.0, 3778755.7, 408.3, 408.3, 0.0); ( 468973.0, 3778755.7, 408.3, 408.3, 0.0);
( 469023.0, 3778755.7, 408.2, 408.2, 0.0); ( 469055.0, 3778754.4, 407.7, 407.7, 0.0);
( 469101.2, 3778754.4, 407.3, 407.3, 0.0); ( 469151.2, 3778754.4, 407.4, 407.4, 0.0);
( 469201.2, 3778754.4, 406.5, 406.5, 0.0); ( 469251.2, 3778754.4, 406.0, 406.0, 0.0);
( 469301.2, 3778754.4, 406.0, 406.0, 0.0); ( 469351.2, 3778754.4, 405.5, 405.5, 0.0);
( 469401.2, 3778754.4, 405.4, 405.4, 0.0); ( 469451.2, 3778754.4, 404.5, 404.5, 0.0);
( 468673.0, 3778805.7, 411.2, 411.2, 0.0); ( 468723.0, 3778805.7, 410.6, 410.6, 0.0);
*** AERMOD - VERSION 19191 *** *** CWP Implementation, Muscoy, 2040 *** 05/15/20
*** AERMET - VERSION 16216 *** *** (Existing Plus Project - Existing No Project) > 100 trucks/day *** 08:50:17
*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U* *** PAGE 24

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

( 468773.0, 3778805.7, 410.2, 410.2, 0.0); ( 468823.0, 3778805.7, 410.1, 410.1, 0.0);
( 468873.0, 3778805.7, 409.7, 409.7, 0.0); ( 468923.0, 3778805.7, 409.7, 409.7, 0.0);
( 468973.0, 3778805.7, 409.8, 409.8, 0.0); ( 469023.0, 3778805.7, 408.9, 408.9, 0.0);
( 469055.0, 3778804.4, 408.3, 408.3, 0.0); ( 469101.2, 3778804.4, 407.9, 407.9, 0.0);
( 469151.2, 3778804.4, 407.2, 407.2, 0.0); ( 469201.2, 3778804.4, 407.6, 407.6, 0.0);
( 469251.2, 3778804.4, 407.2, 407.2, 0.0); ( 469301.2, 3778804.4, 406.6, 406.6, 0.0);
( 469351.2, 3778804.4, 406.4, 406.4, 0.0); ( 469401.2, 3778804.4, 405.9, 405.9, 0.0);
( 469451.2, 3778804.4, 405.4, 571.5, 0.0); ( 468673.0, 3778855.7, 411.9, 411.9, 0.0);
( 468723.0, 3778855.7, 411.5, 411.5, 0.0); ( 468773.0, 3778855.7, 411.3, 411.3, 0.0);
( 468823.0, 3778855.7, 411.3, 411.3, 0.0); ( 468873.0, 3778855.7, 410.8, 410.8, 0.0);
( 468923.0, 3778855.7, 410.9, 410.9, 0.0); ( 468973.0, 3778855.7, 410.3, 410.3, 0.0);
( 469023.0, 3778855.7, 409.8, 409.8, 0.0); ( 469055.0, 3778854.4, 409.3, 409.3, 0.0);
( 469101.2, 3778854.4, 408.4, 408.4, 0.0); ( 469151.2, 3778854.4, 408.2, 408.2, 0.0);
( 469201.2, 3778854.4, 408.5, 408.5, 0.0); ( 469251.2, 3778854.4, 408.0, 408.0, 0.0);
( 469301.2, 3778854.4, 407.8, 407.8, 0.0); ( 469351.2, 3778854.4, 407.2, 407.2, 0.0);
( 469401.2, 3778854.4, 406.6, 572.0, 0.0); ( 469451.2, 3778854.4, 406.3, 572.1, 0.0);
( 468673.0, 3778905.7, 412.7, 412.7, 0.0); ( 468723.0, 3778905.7, 412.5, 412.5, 0.0);
( 468773.0, 3778905.7, 412.3, 412.3, 0.0); ( 468823.0, 3778905.7, 412.2, 412.2, 0.0);
( 468873.0, 3778905.7, 411.9, 411.9, 0.0); ( 468923.0, 3778905.7, 411.6, 411.6, 0.0);
( 468973.0, 3778905.7, 411.0, 411.0, 0.0); ( 469023.0, 3778905.7, 410.4, 410.4, 0.0);
( 469055.0, 3778904.4, 410.0, 410.0, 0.0); ( 469101.2, 3778904.4, 409.3, 409.3, 0.0);
( 469151.2, 3778904.4, 409.2, 409.2, 0.0); ( 469201.2, 3778904.4, 409.3, 409.3, 0.0);
( 469251.2, 3778904.4, 408.9, 408.9, 0.0); ( 469301.2, 3778904.4, 408.5, 571.5, 0.0);
( 469351.2, 3778904.4, 407.9, 572.1, 0.0); ( 469401.2, 3778904.4, 407.6, 572.1, 0.0);
( 469451.2, 3778904.4, 406.9, 572.1, 0.0); ( 468673.6, 3778940.5, 413.4, 413.4, 0.0);
( 468723.6, 3778940.5, 413.3, 413.3, 0.0); ( 468773.6, 3778940.5, 412.9, 412.9, 0.0);
( 468823.6, 3778940.5, 413.0, 413.0, 0.0); ( 468873.6, 3778940.5, 412.8, 412.8, 0.0);
( 468923.6, 3778940.5, 412.5, 412.5, 0.0); ( 468973.6, 3778940.5, 411.7, 411.7, 0.0);
( 469023.6, 3778940.5, 411.0, 411.0, 0.0); ( 469054.4, 3778940.5, 410.8, 410.8, 0.0);
( 469123.6, 3778940.5, 409.8, 409.8, 0.0); ( 469173.6, 3778940.5, 410.0, 410.0, 0.0);
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Model Output - Muscoy CWP Implemenation 2040

```
( 469223.6, 3778940.5, 409.9, 409.9, 0.0); ( 469273.6, 3778940.5, 409.4, 572.0, 0.0);
( 469323.6, 3778940.5, 408.9, 572.1, 0.0); ( 469373.6, 3778940.5, 408.5, 572.1, 0.0);
( 469423.6, 3778940.5, 407.8, 572.1, 0.0); ( 469473.6, 3778940.5, 407.2, 572.1, 0.0);
( 468673.6, 3778990.5, 414.4, 414.4, 0.0); ( 468723.6, 3778990.5, 414.1, 414.1, 0.0);
( 468773.6, 3778990.5, 413.8, 413.8, 0.0); ( 468823.6, 3778990.5, 413.0, 413.0, 0.0);
( 468873.6, 3778990.5, 412.7, 412.7, 0.0); ( 468923.6, 3778990.5, 412.6, 414.7, 0.0);
( 468973.6, 3778990.5, 412.7, 412.7, 0.0); ( 469023.6, 3778990.5, 411.9, 411.9, 0.0);
( 469054.4, 3778990.5, 411.6, 411.6, 0.0); ( 469123.6, 3778990.5, 411.1, 411.1, 0.0);
( 469173.6, 3778990.5, 411.5, 559.1, 0.0); ( 469223.6, 3778990.5, 410.9, 572.1, 0.0);
( 469273.6, 3778990.5, 410.5, 572.1, 0.0); ( 469323.6, 3778990.5, 409.8, 572.1, 0.0);
( 469373.6, 3778990.5, 409.2, 572.1, 0.0); ( 469423.6, 3778990.5, 408.6, 572.1, 0.0);
( 469473.6, 3778990.5, 408.0, 572.1, 0.0); ( 468673.6, 3779040.5, 415.5, 415.5, 0.0);
( 468723.6, 3779040.5, 415.0, 415.0, 0.0); ( 468773.6, 3779040.5, 414.8, 414.8, 0.0);
( 468823.6, 3779040.5, 414.9, 414.9, 0.0); ( 468873.6, 3779040.5, 414.9, 414.9, 0.0);
( 468923.6, 3779040.5, 415.0, 415.0, 0.0); ( 468973.6, 3779040.5, 414.1, 414.1, 0.0);
*** AERMOD - VERSION 19191 *** *** CWP Implementation, Muscoy, 2040 *** 05/15/20
*** AERMET - VERSION 16216 *** *** (Existing Plus Project - Existing No Project) > 100 trucks/day *** 08:50:17
*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U* *** PAGE 25

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

( 469023.6, 3779040.5, 412.9, 412.9, 0.0); ( 469054.4, 3779040.5, 412.5, 412.5, 0.0);
( 469123.6, 3779040.5, 412.2, 571.5, 0.0); ( 469173.6, 3779040.5, 412.4, 572.1, 0.0);
( 469223.6, 3779040.5, 411.9, 572.1, 0.0); ( 469273.6, 3779040.5, 411.3, 572.1, 0.0);
( 469323.6, 3779040.5, 410.9, 572.1, 0.0); ( 469373.6, 3779040.5, 410.0, 572.1, 0.0);
( 469423.6, 3779040.5, 409.3, 572.1, 0.0); ( 469473.6, 3779040.5, 408.7, 572.1, 0.0);
( 468673.6, 3779090.5, 416.6, 416.6, 0.0); ( 468723.6, 3779090.5, 416.0, 416.0, 0.0);
( 468773.6, 3779090.5, 415.7, 415.7, 0.0); ( 468823.6, 3779090.5, 415.4, 415.4, 0.0);
( 468873.6, 3779090.5, 415.0, 415.0, 0.0); ( 468923.6, 3779090.5, 414.9, 414.9, 0.0);
( 468973.6, 3779090.5, 414.6, 414.6, 0.0); ( 469023.6, 3779090.5, 413.7, 413.7, 0.0);
( 469054.4, 3779090.5, 413.3, 559.6, 0.0); ( 469123.6, 3779090.5, 413.3, 572.1, 0.0);
( 469173.6, 3779090.5, 413.3, 572.1, 0.0); ( 469223.6, 3779090.5, 412.5, 572.1, 0.0);
( 469273.6, 3779090.5, 411.9, 572.1, 0.0); ( 469323.6, 3779090.5, 411.3, 572.1, 0.0);
( 468673.6, 3779140.5, 417.4, 417.4, 0.0); ( 468723.6, 3779140.5, 417.0, 417.0, 0.0);
( 468773.6, 3779140.5, 416.4, 416.4, 0.0); ( 468823.6, 3779140.5, 416.1, 416.1, 0.0);
( 468873.6, 3779140.5, 416.0, 416.0, 0.0); ( 468923.6, 3779140.5, 415.9, 415.9, 0.0);
( 468973.6, 3779140.5, 415.1, 559.1, 0.0); ( 469023.6, 3779140.5, 414.6, 559.6, 0.0);
( 469054.4, 3779140.5, 414.4, 572.0, 0.0); ( 469223.6, 3779140.5, 413.3, 572.1, 0.0);
( 469273.6, 3779140.5, 412.4, 572.1, 0.0); ( 468673.6, 3779190.5, 418.2, 418.2, 0.0);
( 468723.6, 3779190.5, 418.0, 418.0, 0.0); ( 468773.6, 3779190.5, 417.4, 417.4, 0.0);
( 468823.6, 3779190.5, 416.1, 416.1, 0.0); ( 468873.6, 3779190.5, 416.1, 416.1, 0.0);
( 468923.6, 3779190.5, 416.1, 559.6, 0.0); ( 468973.6, 3779190.5, 416.0, 559.6, 0.0);
( 469023.6, 3779190.5, 415.5, 572.1, 0.0); ( 469054.4, 3779190.5, 415.4, 572.1, 0.0);
( 468673.6, 3779240.5, 419.0, 419.0, 0.0); ( 468723.6, 3779240.5, 418.7, 418.7, 0.0);
( 468773.6, 3779240.5, 418.3, 418.3, 0.0); ( 468823.6, 3779240.5, 417.4, 417.4, 0.0);
( 468873.6, 3779240.5, 416.7, 559.6, 0.0); ( 468923.6, 3779240.5, 417.1, 559.6, 0.0);
( 468973.6, 3779240.5, 416.9, 572.0, 0.0); ( 469023.6, 3779240.5, 416.3, 572.1, 0.0);
( 469267.7, 3779173.6, 413.2, 572.1, 0.0); ( 468723.6, 3779290.5, 420.2, 420.2, 0.0);
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Model Output - Muscoy
CWP Implemenation 2040

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( 468773.6, 3779290.5, 419.7, 419.7, 0.0); ( 468823.6, 3779290.5, 418.9, 418.9, 0.0);
( 468873.6, 3779290.5, 418.2, 559.6, 0.0); ( 468923.6, 3779290.5, 418.2, 571.7, 0.0);
( 468973.6, 3779290.5, 417.7, 572.1, 0.0); ( 468673.6, 3779340.5, 421.1, 421.1, 0.0);
( 468723.6, 3779340.5, 420.7, 420.7, 0.0); ( 468773.6, 3779340.5, 420.4, 420.4, 0.0);
( 468823.6, 3779340.5, 420.0, 559.6, 0.0); ( 468873.6, 3779340.5, 419.2, 559.6, 0.0);
( 468923.6, 3779340.5, 419.2, 572.1, 0.0); ( 468673.6, 3779390.5, 422.0, 422.0, 0.0);
( 468723.6, 3779390.5, 421.9, 421.9, 0.0); ( 468773.6, 3779390.5, 421.1, 559.6, 0.0);
( 468823.6, 3779390.5, 420.3, 559.6, 0.0); ( 468873.6, 3779390.5, 420.1, 572.1, 0.0);
( 468923.6, 3779390.5, 420.3, 572.1, 0.0); ( 468673.6, 3779440.5, 423.1, 423.1, 0.0);
( 468723.6, 3779440.5, 422.7, 422.7, 0.0); ( 468773.6, 3779440.5, 421.7, 559.6, 0.0);
( 468823.6, 3779440.5, 421.4, 571.5, 0.0); ( 468873.6, 3779440.5, 421.4, 572.1, 0.0);
( 468923.6, 3779440.5, 421.6, 572.1, 0.0); ( 468973.6, 3779440.5, 420.6, 572.1, 0.0);
( 469021.2, 3779453.3, 420.4, 572.1, 0.0); ( 468673.6, 3779490.5, 423.9, 423.9, 0.0);
( 468723.6, 3779490.5, 423.0, 559.6, 0.0); ( 468773.6, 3779490.5, 422.7, 559.6, 0.0);
( 468823.6, 3779490.5, 422.2, 572.1, 0.0); ( 468873.6, 3779490.5, 422.5, 572.1, 0.0);
( 468923.6, 3779490.5, 422.3, 572.1, 0.0); ( 468973.6, 3779490.5, 421.5, 572.1, 0.0);
( 468673.6, 3779540.5, 424.5, 424.5, 0.0); ( 468723.6, 3779540.5, 423.9, 559.6, 0.0);
( 468773.6, 3779540.5, 424.0, 559.6, 0.0); ( 468823.6, 3779540.5, 423.6, 572.1, 0.0);
*** AERMOD - VERSION 19191 *** *** CWP Implementation, Muscoy, 2040 *** 05/15/20
*** AERMET - VERSION 16216 *** *** (Existing Plus Project - Existing No Project) > 100 trucks/day *** 08:50:17
*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U* *** PAGE 26

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

( 468873.6, 3779540.5, 423.4, 572.1, 0.0); ( 468923.6, 3779540.5, 423.3, 572.1, 0.0);
( 468973.6, 3779540.5, 422.6, 572.1, 0.0); ( 468683.6, 3779565.8, 424.9, 559.6, 0.0);
( 468733.6, 3779565.8, 424.4, 559.6, 0.0); ( 468783.6, 3779565.8, 424.1, 572.0, 0.0);
( 468833.6, 3779565.8, 424.2, 572.1, 0.0); ( 468883.6, 3779565.8, 423.9, 572.1, 0.0);
( 468933.6, 3779565.8, 423.5, 572.1, 0.0); ( 468983.6, 3779565.8, 423.1, 572.1, 0.0);
( 468683.6, 3779615.8, 425.7, 559.6, 0.0); ( 468733.6, 3779615.8, 425.6, 559.6, 0.0);
( 468783.6, 3779615.8, 425.5, 572.1, 0.0); ( 468833.6, 3779615.8, 425.4, 572.1, 0.0);
( 468883.6, 3779615.8, 425.4, 572.1, 0.0); ( 468933.6, 3779615.8, 424.5, 572.1, 0.0);
( 468969.1, 3779615.8, 424.4, 572.1, 0.0); ( 468683.6, 3779665.8, 427.1, 559.6, 0.0);
( 468733.6, 3779665.8, 426.7, 571.5, 0.0); ( 468833.6, 3779665.8, 426.4, 572.1, 0.0);
( 468883.6, 3779665.8, 426.3, 572.1, 0.0); ( 468919.1, 3779665.8, 426.0, 572.1, 0.0);
( 468683.6, 3779715.8, 428.7, 559.6, 0.0); ( 468733.6, 3779715.8, 428.3, 571.7, 0.0);
( 468683.6, 3779765.8, 433.0, 559.6, 0.0); ( 468683.6, 3779815.8, 439.0, 559.2, 0.0);
( 468733.6, 3779815.8, 442.4, 559.6, 0.0); ( 468802.1, 3779842.6, 429.7, 572.1, 0.0);
( 468319.3, 3779935.7, 435.8, 435.8, 0.0); ( 468369.3, 3779935.7, 435.2, 435.2, 0.0);
( 468419.3, 3779935.7, 434.4, 434.4, 0.0); ( 468469.3, 3779935.7, 433.9, 433.9, 0.0);
( 468519.3, 3779935.7, 433.5, 433.5, 0.0); ( 468569.3, 3779935.7, 433.5, 433.5, 0.0);
( 468621.4, 3779927.5, 433.6, 559.6, 0.0); ( 468669.3, 3779935.7, 433.2, 559.6, 0.0);
( 468719.3, 3779935.7, 432.5, 572.1, 0.0); ( 468319.3, 3779985.7, 436.4, 436.4, 0.0);
( 468369.3, 3779985.7, 435.9, 435.9, 0.0); ( 468419.3, 3779985.7, 435.5, 435.5, 0.0);
( 468469.3, 3779985.7, 434.5, 434.5, 0.0); ( 468519.3, 3779985.7, 434.8, 434.8, 0.0);
( 468569.3, 3779985.7, 434.9, 434.9, 0.0); ( 468619.3, 3779985.7, 434.4, 559.6, 0.0);
( 468650.8, 3779988.8, 434.0, 559.6, 0.0); ( 468885.9, 3779833.1, 429.3, 572.1, 0.0);
( 468319.3, 3780035.7, 437.4, 437.4, 0.0); ( 468369.3, 3780035.7, 436.7, 436.7, 0.0);
```

Model Output - Muscoy CWP Implemenation 2040

(468419.3, 3780035.7,	436.4,	436.4,	0.0);	(468469.3, 3780035.7,	435.9,	435.9,	0.0);
(468519.3, 3780035.7,	436.4,	436.4,	0.0);	(468569.3, 3780035.7,	436.3,	436.3,	0.0);
(468619.3, 3780035.7,	435.0,	559.6,	0.0);	(468319.3, 3780085.7,	438.2,	438.2,	0.0);
(468369.3, 3780085.7,	437.8,	437.8,	0.0);	(468419.3, 3780085.7,	437.2,	437.2,	0.0);
(468469.3, 3780085.7,	437.2,	437.2,	0.0);	(468519.3, 3780085.7,	437.6,	437.6,	0.0);
(468569.3, 3780085.7,	436.7,	559.6,	0.0);	(468319.3, 3780135.7,	438.9,	438.9,	0.0);
(468369.3, 3780135.7,	438.5,	438.5,	0.0);	(468419.3, 3780135.7,	438.2,	438.2,	0.0);
(468469.3, 3780135.7,	438.8,	438.8,	0.0);	(468519.3, 3780135.7,	438.3,	438.3,	0.0);
(468319.3, 3780185.7,	439.9,	439.9,	0.0);	(468369.3, 3780185.7,	439.4,	439.4,	0.0);
(468419.3, 3780185.7,	439.3,	439.3,	0.0);	(468469.3, 3780185.7,	439.6,	439.6,	0.0);
(468519.3, 3780185.7,	439.1,	439.1,	0.0);	(468319.3, 3780235.7,	440.9,	440.9,	0.0);
(468369.3, 3780235.7,	440.3,	440.3,	0.0);	(468419.3, 3780235.7,	440.3,	440.3,	0.0);
(468469.3, 3780235.7,	440.7,	440.7,	0.0);	(468319.3, 3780285.7,	442.0,	442.0,	0.0);
(468369.3, 3780285.7,	441.6,	441.6,	0.0);	(468419.3, 3780285.7,	441.3,	441.3,	0.0);
(468299.7, 3779721.0,	430.6,	430.6,	0.0);	(468349.7, 3779721.0,	430.7,	430.7,	0.0);
(468399.7, 3779721.0,	430.7,	430.7,	0.0);	(468449.7, 3779721.0,	431.0,	431.0,	0.0);
(468499.7, 3779721.0,	430.3,	430.3,	0.0);	(468549.7, 3779721.0,	429.0,	429.0,	0.0);
(468599.7, 3779721.0,	428.3,	443.1,	0.0);	(468649.7, 3779721.0,	428.5,	559.6,	0.0);
(468299.7, 3779771.0,	432.1,	432.1,	0.0);	(468349.7, 3779771.0,	432.1,	432.1,	0.0);
(468399.7, 3779771.0,	432.0,	432.0,	0.0);	(468449.7, 3779771.0,	431.5,	431.5,	0.0);
(468499.7, 3779771.0,	430.7,	430.7,	0.0);	(468549.7, 3779771.0,	429.4,	429.4,	0.0);
*** AERMOD - VERSION 19191 ***	*** CWP Implementation, Muscoy, 2040	***	05/15/20				
*** AERMET - VERSION 16216 ***	*** (Existing Plus Project - Existing No Project) > 100 trucks/day	***	08:50:17				
*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*			PAGE 27				

*** DISCRETE CARTESIAN RECEPTORS *** (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG) (METERS)

(468599.7, 3779771.0,	429.3,	559.2,	0.0);	(468649.7, 3779771.0,	433.4,	559.6,	0.0);
(468299.7, 3779821.0,	433.5,	433.5,	0.0);	(468349.7, 3779821.0,	433.4,	433.4,	0.0);
(468399.7, 3779821.0,	432.9,	432.9,	0.0);	(468449.7, 3779821.0,	432.0,	432.0,	0.0);
(468499.7, 3779821.0,	431.2,	431.2,	0.0);	(468549.7, 3779821.0,	430.6,	430.6,	0.0);
(468599.7, 3779821.0,	430.2,	559.6,	0.0);	(468649.7, 3779821.0,	435.3,	559.6,	0.0);
(468299.7, 3779871.0,	434.6,	434.6,	0.0);	(468349.7, 3779871.0,	434.3,	434.3,	0.0);
(468399.7, 3779871.0,	433.5,	433.5,	0.0);	(468449.7, 3779871.0,	432.9,	432.9,	0.0);
(468499.7, 3779871.0,	431.9,	431.9,	0.0);	(468549.7, 3779871.0,	431.7,	431.7,	0.0);
(468599.7, 3779871.0,	431.3,	559.6,	0.0);	(468649.7, 3779871.0,	434.1,	559.6,	0.0);
(468299.7, 3779921.0,	435.5,	435.5,	0.0);	(468349.7, 3779921.0,	435.2,	435.2,	0.0);
(468399.7, 3779921.0,	434.4,	434.4,	0.0);	(468449.7, 3779921.0,	433.7,	433.7,	0.0);
(468499.7, 3779921.0,	433.3,	433.3,	0.0);	(468549.7, 3779921.0,	432.9,	432.9,	0.0);
(468599.7, 3779921.0,	433.4,	559.6,	0.0);	(468649.7, 3779921.0,	433.3,	559.6,	0.0);
(468038.4, 3780333.3,	444.9,	444.9,	0.0);	(468088.4, 3780333.3,	444.7,	444.7,	0.0);
(468138.4, 3780333.3,	444.1,	444.1,	0.0);	(468188.4, 3780333.3,	443.6,	443.6,	0.0);
(468238.4, 3780333.3,	443.2,	443.2,	0.0);	(468288.4, 3780333.3,	443.3,	443.3,	0.0);
(468338.4, 3780333.3,	442.9,	442.9,	0.0);	(468369.8, 3780336.4,	443.1,	443.1,	0.0);
(468038.4, 3780383.3,	445.7,	445.7,	0.0);	(468088.4, 3780383.3,	445.3,	445.3,	0.0);
(468138.4, 3780383.3,	444.8,	444.8,	0.0);	(468188.4, 3780383.3,	444.3,	444.3,	0.0);
(468238.4, 3780383.3,	444.4,	444.4,	0.0);	(468288.4, 3780383.3,	444.4,	444.4,	0.0);
(468338.4, 3780383.3,	444.2,	444.2,	0.0);	(468038.4, 3780433.3,	446.7,	446.7,	0.0);

Model Output - Muscoy CWP Implemenation 2040

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( 468088.4, 3780433.3, 446.2, 446.2, 0.0); ( 468138.4, 3780433.3, 445.5, 445.5, 0.0);
( 468188.4, 3780433.3, 445.1, 445.1, 0.0); ( 468238.4, 3780433.3, 445.6, 445.6, 0.0);
( 468288.4, 3780433.3, 445.7, 445.7, 0.0); ( 468038.4, 3780483.3, 447.6, 447.6, 0.0);
( 468088.4, 3780483.3, 447.3, 447.3, 0.0); ( 468138.4, 3780483.3, 446.9, 446.9, 0.0);
( 468188.4, 3780483.3, 446.7, 446.7, 0.0); ( 468238.4, 3780483.3, 446.8, 446.8, 0.0);
( 468038.4, 3780533.3, 448.5, 448.5, 0.0); ( 468088.4, 3780533.3, 448.3, 448.3, 0.0);
( 468138.4, 3780533.3, 447.9, 447.9, 0.0); ( 468188.4, 3780533.3, 447.5, 447.5, 0.0);
( 468238.4, 3780533.3, 447.8, 447.8, 0.0); ( 468038.4, 3780583.3, 449.7, 449.7, 0.0);
( 468088.4, 3780583.3, 449.3, 449.3, 0.0); ( 468138.4, 3780583.3, 448.8, 448.8, 0.0);
( 468188.4, 3780583.3, 448.8, 448.8, 0.0); ( 468038.4, 3780633.3, 451.2, 451.2, 0.0);
( 468088.4, 3780633.3, 450.6, 450.6, 0.0); ( 468138.4, 3780633.3, 450.3, 450.3, 0.0);
( 467801.6, 3780684.4, 453.4, 453.4, 0.0); ( 467851.6, 3780684.4, 453.0, 453.0, 0.0);
( 467901.6, 3780684.4, 452.8, 452.8, 0.0); ( 467951.6, 3780684.4, 452.2, 452.2, 0.0);
( 468001.6, 3780684.4, 451.7, 451.7, 0.0); ( 468051.6, 3780684.4, 451.1, 451.1, 0.0);
( 468101.6, 3780684.4, 450.9, 450.9, 0.0); ( 468133.0, 3780687.5, 450.8, 450.8, 0.0);
( 467801.6, 3780734.4, 454.7, 454.7, 0.0); ( 467851.6, 3780734.4, 454.3, 454.3, 0.0);
( 467901.6, 3780734.4, 453.9, 453.9, 0.0); ( 467951.6, 3780734.4, 453.7, 453.7, 0.0);
( 468001.6, 3780734.4, 453.2, 453.2, 0.0); ( 468051.6, 3780734.4, 451.9, 451.9, 0.0);
( 468101.6, 3780734.4, 452.3, 452.3, 0.0); ( 467801.6, 3780784.4, 455.8, 455.8, 0.0);
( 467851.6, 3780784.4, 455.3, 455.3, 0.0); ( 467901.6, 3780784.4, 454.9, 454.9, 0.0);
( 467951.6, 3780784.4, 454.2, 454.2, 0.0); ( 468001.6, 3780784.4, 453.1, 453.1, 0.0);
( 468051.6, 3780784.4, 453.4, 453.4, 0.0); ( 467801.6, 3780834.4, 456.8, 456.8, 0.0);
( 467851.6, 3780834.4, 456.2, 456.2, 0.0); ( 467901.6, 3780834.4, 455.8, 455.8, 0.0);
( 467951.6, 3780834.4, 455.3, 455.3, 0.0); ( 468001.6, 3780834.4, 454.7, 454.7, 0.0);
*** AERMOD - VERSION 19191 *** *** CWP Implementation, Muscoy, 2040 *** 05/15/20
*** AERMET - VERSION 16216 *** *** (Existing Plus Project - Existing No Project) > 100 trucks/day *** 08:50:17
*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U* *** PAGE 28

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

( 467901.6, 3780884.4, 456.5, 456.5, 0.0); ( 467951.6, 3780884.4, 456.2, 456.2, 0.0);
( 467989.7, 3780876.1, 455.7, 455.7, 0.0); ( 467951.6, 3780934.4, 457.2, 457.2, 0.0);
( 468273.6, 3780631.5, 450.0, 450.0, 0.0); ( 468230.8, 3780673.2, 450.8, 450.8, 0.0);
( 468180.8, 3780723.2, 451.9, 451.9, 0.0); ( 468144.0, 3780774.2, 453.0, 453.0, 0.0);
( 468238.8, 3780585.4, 448.9, 448.9, 0.0);
```

Model Output - Muscoy CWP Implemenation 2040

```

*** AERMOT - VERSION 19191 *** *** CWP Implementation, Muscoy, 2040 *** 05/15/20
*** AERMET - VERSION 16216 *** *** (Existing Plus Project - Existing No Project) > 100 trucks/day *** 08:50:17
                                     PAGE 29
*** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

```

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

[illegible]

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,

Model Output - Muscoy CWP Implementation 2040

```

*** AERMOD - VERSION 19191 *** *** CWP Implementation, Muscoy, 2040 *** 05/15/20
*** AERMET - VERSION 16216 *** *** (Existing Plus Project - Existing No Project) > 100 trucks/day *** 08:50:17
                                                                                                     PAGE 30
*** MODELOPTs:      RegDFAULT  CONC  ELEV  URBAN  ADJ  U*

```

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

```
Surface file:    ..\met_data\FONT_v9.SFC  
Profile file:   ..\met_data\FONT_v9.PFL  
Surface format: FREE  
Profile format: FREE  
Surface station no.:      3102  
                  Name: UNKNOWN  
                  Year:  2011
```

```
Upper air station no.:    3190
                        Name: UNKNOWN
                        Year:  2011
```

Met Version: 16216

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
11	01	01	1	01	-18.5	0.194	-9.000	-9.000	-999.	204.	41.2	0.25	2.82	1.00	1.80	69.	9.1	276.4	5.5			
11	01	01	1	02	-23.8	0.239	-9.000	-9.000	-999.	281.	63.0	0.25	2.82	1.00	2.20	52.	9.1	275.4	5.5			
11	01	01	1	03	-18.5	0.194	-9.000	-9.000	-999.	205.	41.2	0.25	2.82	1.00	1.80	32.	9.1	275.4	5.5			
11	01	01	1	04	-1.4	0.067	-9.000	-9.000	-999.	57.	18.3	0.25	2.82	1.00	0.40	27.	9.1	274.2	5.5			
11	01	01	1	05	-18.6	0.194	-9.000	-9.000	-999.	204.	41.2	0.25	2.82	1.00	1.80	51.	9.1	274.2	5.5			
11	01	01	1	06	-29.7	0.296	-9.000	-9.000	-999.	387.	96.6	0.25	2.82	1.00	2.70	53.	9.1	274.2	5.5			
11	01	01	1	07	-24.0	0.239	-9.000	-9.000	-999.	282.	63.0	0.25	2.82	1.00	2.20	70.	9.1	274.2	5.5			
11	01	01	1	08	-8.4	0.138	-9.000	-9.000	-999.	127.	27.3	0.25	2.82	0.54	1.30	72.	9.1	275.4	5.5			
11	01	01	1	09	44.3	0.280	0.571	0.005	147.	356.	-43.5	0.25	2.82	0.32	2.20	67.	9.1	277.5	5.5			
11	01	01	1	10	122.7	0.264	0.952	0.005	247.	326.	-13.2	0.25	2.82	0.25	1.80	83.	9.1	279.9	5.5			
11	01	01	1	11	179.8	0.316	1.733	0.005	1017.	426.	-15.4	0.25	2.82	0.22	2.20	58.	9.1	282.0	5.5			
11	01	01	1	12	206.0	0.320	1.940	0.008	1244.	435.	-14.0	0.25	2.82	0.21	2.20	115.	9.1	283.1	5.5			
11	01	01	1	13	132.6	0.214	1.733	0.009	1377.	243.	-6.5	0.25	2.82	0.21	1.30	147.	9.1	284.2	5.5			
11	01	01	1	14	147.0	0.216	1.818	0.009	1431.	242.	-6.0	0.25	2.82	0.23	1.30	219.	9.1	284.9	5.5			
11	01	01	1	15	104.0	0.208	1.633	0.009	1468.	228.	-7.6	0.25	2.82	0.26	1.30	126.	9.1	285.4	5.5			
11	01	01	1	16	26.4	0.140	1.037	0.009	1477.	127.	-9.1	0.25	2.82	0.35	0.90	151.	9.1	284.9	5.5			
11	01	01	1	17	-9.0	0.137	-9.000	-9.000	-999.	121.	24.9	0.25	2.82	0.63	1.30	69.	9.1	283.1	5.5			
11	01	01	1	18	-33.4	0.342	-9.000	-9.000	-999.	481.	129.0	0.25	2.82	1.00	3.10	81.	9.1	281.4	5.5			
11	01	01	1	19	-33.6	0.342	-9.000	-9.000	-999.	481.	128.9	0.25	2.82	1.00	3.10	51.	9.1	279.9	5.5			
11	01	01	1	20	-23.6	0.239	-9.000	-9.000	-999.	287.	63.1	0.25	2.82	1.00	2.20	77.	9.1	278.8	5.5			
11	01	01	1	21	-18.5	0.194	-9.000	-9.000	-999.	205.	41.2	0.25	2.82	1.00	1.80	53.	9.1	277.5	5.5			
11	01	01	1	22	-23.7	0.239	-9.000	-9.000	-999.	281.												

First hour of profile data

YR	MO	DY	HR	HEIGHT	F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV
11	01	01	01	5.5	0	-999.	-99.00	276.5	99.0	-99.00	-99.00
11	01	01	01	9.1	1	69.	1.80	-999.0	99.0	-99.00	-99.00

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

Model Output - Muscoy CWP Implementation 2040

*** AERMOD - VERSION 19191 *** *** CWP Implementation, Muscoy, 2040 *** 05/15/20
*** AERMET - VERSION 16216 *** *** (Existing Plus Project - Existing No Project) > 100 trucks/day *** 08:50:17
PAGE 41

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE SUMMARY OF MAXIMUM PERIOD (43848 HRS) RESULTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	RECEPTOR	(XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID	
ALL	1ST HIGHEST VALUE IS	0.00193 AT (	469198.21,	3777316.07,	385.23,	385.23,	0.00) DC
	2ND HIGHEST VALUE IS	0.00189 AT (	469148.21,	3777316.07,	385.37,	385.37,	0.00) DC
	3RD HIGHEST VALUE IS	0.00163 AT (	469448.21,	3777416.07,	384.46,	384.46,	0.00) DC
	4TH HIGHEST VALUE IS	0.00158 AT (	469198.21,	3777366.07,	386.08,	386.08,	0.00) DC
	5TH HIGHEST VALUE IS	0.00156 AT (	469148.21,	3777366.07,	385.95,	385.95,	0.00) DC
	6TH HIGHEST VALUE IS	0.00154 AT (	469398.21,	3777416.07,	384.99,	384.99,	0.00) DC
	7TH HIGHEST VALUE IS	0.00147 AT (	469348.21,	3777416.07,	385.41,	385.41,	0.00) DC
	8TH HIGHEST VALUE IS	0.00141 AT (	469298.21,	3777416.07,	385.76,	385.76,	0.00) DC
	9TH HIGHEST VALUE IS	0.00137 AT (	469448.21,	3777466.07,	385.17,	385.17,	0.00) DC
	10TH HIGHEST VALUE IS	0.00137 AT (	469248.21,	3777416.07,	386.24,	386.24,	0.00) DC

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

Model Output - Muscoy CWP Implementation 2040

```
*** AERMOD - VERSION 19191 ***    *** CWP Implementation, Muscoy, 2040    ***    05/15/20
*** AERMET - VERSION 16216 ***    *** (Existing Plus Project - Existing No Project) > 100 trucks/day ***    08:50:17
                                                                                                     PAGE  42

*** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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

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

A Total of           0 Fatal Error Message(s)
A Total of           7 Warning Message(s)
A Total of          838 Informational Message(s)

A Total of          43848 Hours Were Processed

A Total of           40 Calm Hours Identified

A Total of           798 Missing Hours Identified (  1.82 Percent)

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

***** WARNING MESSAGES *****
ME W186   1314    MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used           0.50
ME W187   1314    MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET
MX W438   8800    METQA: Convective Velocity Data Out-of-Range.  KURDAT =          12010216
MX W438  11536    METQA: Convective Velocity Data Out-of-Range.  KURDAT =          12042516
MX W420  16779    METQA: Wind Speed Out-of-Range.  KURDAT =          12113003
MX W450  26305    CHKDAT: Record Out of Sequence in Meteorological File at:          15010101
MX W450  26305    CHKDAT: Record Out of Sequence in Meteorological File at:    1 year gap

*****
*** AERMOD Finishes Successfully ***
*****
```

Model Output - Bloomington
CWP Implementation, 2020 Vehicle Emission Factors

```
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 9.9.0
** Lakes Environmental Software Inc.
** Date: 5/27/2020
** File: C:\!AERMOD\SBC25\ExCWP\ExCWP.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
  TITLEONE CWP Implemenation, Bloomington, 2020
  TITLETWO (Existing Plus Project - Existing No Project) > 100 trucks/day
  MODELOPT DFAULT CONC
  AVERTIME PERIOD
  URBANOPT 2035210 San_Bernardino_County
  POLLUTID OTHER
  RUNORNOT RUN
  ERRORFIL ExCWP.err
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = 1
** DESCRSRC ValleyBlvd
** PREFIX
** Length of Side = 24.00
** Configuration = Adjacent
** Emission Rate = 0.0000307
** Vertical Dimension = 7.00
** SZINIT = 3.26
** Nodes = 2
** 463451.597, 3770043.124, 335.85, 3.50, 11.16
** 464045.081, 3770041.637, 333.50, 3.50, 11.16
** -----
** Line Source Represented by Adjacent Volume Sources
```

Model Output - Bloomington
CWP Implementation, 2020 Vehicle Emission Factors

```
** LINE VOLUME Source ID = 2
** DESCRSRC I10 EO Alder
** PREFIX
** Length of Side = 21.00
** Configuration = Adjacent
** Emission Rate = 0.000156
** Vertical Dimension = 7.00
** SZINIT = 3.26
** Nodes = 5
** 461402.374, 3769736.050, 337.07, 3.50, 9.77
** 461875.883, 3769740.168, 336.23, 3.50, 9.77
** 462207.339, 3769748.403, 335.79, 3.50, 9.77
** 462586.146, 3769756.638, 336.03, 3.50, 9.77
** 462699.376, 3769760.755, 335.86, 3.50, 9.77
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = 3
** DESCRSRC I-10 Cedar
** PREFIX
** Length of Side = 21.00
** Configuration = Adjacent
** Emission Rate = 0.000176
** Vertical Dimension = 7.00
** SZINIT = 3.26
** Nodes = 10
** 462713.788, 3769766.931, 335.81, 3.50, 9.77
** 462870.251, 3769783.401, 335.40, 3.50, 9.77
** 463014.363, 3769797.812, 335.09, 3.50, 9.77
** 463193.473, 3769814.282, 333.99, 3.50, 9.77
** 463316.997, 3769826.635, 332.66, 3.50, 9.77
** 463452.873, 3769830.752, 330.91, 3.50, 9.77
** 463541.399, 3769836.928, 329.97, 3.50, 9.77
** 463650.512, 3769832.811, 328.65, 3.50, 9.77
** 463829.621, 3769822.517, 326.22, 3.50, 9.77
** 463967.557, 3769810.165, 325.35, 3.50, 9.77
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = 4
** DESCRSRC I-10 WO Cactus
** PREFIX
** Length of Side = 21.00
** Configuration = Adjacent
** Emission Rate = 0.0000309
** Vertical Dimension = 7.00
** SZINIT = 3.26
** Nodes = 3
** 463976.350, 3769809.298, 325.35, 3.50, 9.77
** 464072.880, 3769804.149, 325.20, 3.50, 9.77
** 464213.170, 3769802.862, 325.04, 3.50, 9.77
** -----
** Line Source Represented by Adjacent Volume Sources
```

Model Output - Bloomington
CWP Implementation, 2020 Vehicle Emission Factors

```
** LINE VOLUME Source ID = 5
** DESCRSRC I-10 EB WO Alder
** PREFIX
** Length of Side = 21.00
** Configuration = Adjacent
** Emission Rate = 0.000162
** Vertical Dimension = 7.00
** SZINIT = 3.26
** Nodes = 4
** 461403.193, 3769707.990, 336.65, 3.50, 9.77
** 461813.480, 3769720.745, 336.03, 3.50, 9.77
** 462213.137, 3769729.249, 335.51, 3.50, 9.77
** 462593.662, 3769733.500, 336.09, 3.50, 9.77
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = 6
** DESCRSRC I-10 EB Cedar
** PREFIX
** Length of Side = 21.00
** Configuration = Adjacent
** Emission Rate = 0.00024
** Vertical Dimension = 7.00
** SZINIT = 3.26
** Nodes = 11
** 462604.291, 3769735.626, 336.06, 3.50, 9.77
** 462742.471, 3769737.752, 335.91, 3.50, 9.77
** 462942.299, 3769765.388, 335.24, 3.50, 9.77
** 463137.877, 3769784.521, 334.56, 3.50, 9.77
** 463324.950, 3769801.527, 332.32, 3.50, 9.77
** 463458.878, 3769810.031, 330.74, 3.50, 9.77
** 463607.687, 3769807.905, 328.88, 3.50, 9.77
** 463826.648, 3769790.898, 326.25, 3.50, 9.77
** 463981.834, 3769782.395, 325.48, 3.50, 9.77
** 464113.636, 3769778.143, 325.45, 3.50, 9.77
** 464209.299, 3769776.017, 325.36, 3.50, 9.77
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = 7
** DESCRSRC Slover EO Alder
** PREFIX
** Length of Side = 23.00
** Configuration = Adjacent
** Emission Rate = 9.95E-06
** Vertical Dimension = 7.00
** SZINIT = 3.26
** Nodes = 2
** 461409.364, 3769233.004, 330.29, 3.50, 10.70
** 461657.977, 3769236.341, 329.56, 3.50, 10.70
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = 8
```

Model Output - Bloomington
CWP Implementation, 2020 Vehicle Emission Factors

```
** DESCRSRC Slover WO Locust
** PREFIX
** Length of Side = 23.00
** Configuration = Adjacent
** Emission Rate = 0.0000195
** Vertical Dimension = 7.00
** SZINIT = 3.26
** Nodes = 3
** 461671.326, 3769234.673, 329.52, 3.50, 10.70
** 462008.372, 3769236.341, 328.62, 3.50, 10.70
** 462211.935, 3769234.673, 328.06, 3.50, 10.70
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = 9
** DESCRSRC Slover EO Locust
** PREFIX
** Length of Side = 23.00
** Configuration = Adjacent
** Emission Rate = 0.0000323
** Vertical Dimension = 7.00
** SZINIT = 3.26
** Nodes = 2
** 462233.196, 3769233.980, 328.03, 3.50, 10.70
** 462613.878, 3769233.980, 328.82, 3.50, 10.70
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = 10
** DESCRSRC Slover WO Spruce
** PREFIX
** Length of Side = 11.00
** Configuration = Adjacent
** Emission Rate = 0.0000128
** Vertical Dimension = 7.00
** SZINIT = 3.26
** Nodes = 2
** 463820.566, 3769231.585, 323.15, 3.50, 5.12
** 464222.796, 3769230.388, 320.42, 3.50, 5.12
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = 11
** DESCRSRC Slover WO Cactus
** PREFIX
** Length of Side = 13.50
** Configuration = Adjacent
** Emission Rate = 0.0000116
** Vertical Dimension = 7.00
** SZINIT = 3.26
** Nodes = 2
** 464425.107, 3769233.980, 319.82, 3.50, 6.28
** 464625.025, 3769230.388, 318.20, 3.50, 6.28
** -----
```

Model Output - Bloomington
CWP Implementation, 2020 Vehicle Emission Factors

```
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = 12
** DESCRSRC Cactus NO Santa Ana
** PREFIX
** Length of Side = 7.50
** Configuration = Adjacent
** Emission Rate = 0.0000436
** Vertical Dimension = 7.00
** SZINIT = 3.26
** Nodes = 6
** 464626.222, 3769225.600, 318.12, 3.50, 3.49
** 464625.025, 3769020.894, 315.21, 3.50, 3.49
** 464619.039, 3768996.951, 314.81, 3.50, 3.49
** 464620.237, 3768631.833, 309.97, 0.00, 3.49
** 464625.025, 3768585.145, 309.22, 0.00, 3.49
** 464625.025, 3768427.126, 307.01, 0.00, 3.49
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = 13
** DESCRSRC Cactus NO Jurupa
** PREFIX
** Length of Side = 7.50
** Configuration = Adjacent
** Emission Rate = 0.0000632
** Vertical Dimension = 7.00
** SZINIT = 3.26
** Nodes = 4
** 464627.213, 3768420.964, 306.96, 3.50, 3.49
** 464625.728, 3768030.426, 302.35, 3.50, 3.49
** 464621.273, 3767999.242, 301.95, 3.50, 3.49
** 464624.243, 3767576.035, 296.20, 0.00, 3.49
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = 14
** DESCRSRC Cactus SO Jurupa
** PREFIX
** Length of Side = 7.50
** Configuration = Adjacent
** Emission Rate = 0.0000841
** Vertical Dimension = 7.00
** SZINIT = 3.26
** Nodes = 4
** 464621.273, 3767573.066, 296.17, 3.50, 3.49
** 464621.273, 3767241.925, 291.71, 3.50, 3.49
** 464619.788, 3767014.730, 293.81, 3.50, 3.49
** 464621.273, 3766750.411, 291.51, 0.00, 3.49

URBANSRC ALL
SRCGROUP ALL
SO FINISHED
**
```

Model Output - Bloomington

CWP Implementation, 2020 Vehicle Emission Factors

```
*****
** AERMOD Receptor Pathway
*****
```

```
RE STARTING
```

```
  INCLUDED ExCWP.rou
```

```
RE FINISHED
```

```
*****
** AERMOD Meteorology Pathway
*****
```

```
ME STARTING
```

```
  SURFILE "..\met data\FONT_v9.SFC"
```

```
  PROFFILE "..\met data\FONT_v9.PFL"
```

```
  SURFDATA 3102 2011
```

```
  UAIRDATA 3190 2011
```

```
  SITEDATA 99999 2011
```

```
  PROFBASE 367.0 METERS
```

```
ME FINISHED
```

```
**
```

```
*****
** AERMOD Output Pathway
*****
```

```
**
```

```
**
```

```
OU STARTING
```

```
** Auto-Generated Plotfiles
```

```
  PLOTFILE PERIOD ALL ExCWP.AD\PE00GALL.PLT 31
```

```
  SUMMFILE ExCWP.sum
```

```
OU FINISHED
```

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

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

```
A Total of          0 Fatal Error Message(s)
A Total of          2 Warning Message(s)
A Total of          0 Informational Message(s)
```

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

```
***** WARNING MESSAGES *****
```

```
ME W186   1785      MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used      0.50
ME W187   1785      MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET
```

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

Model Output - Bloomington
CWP Implementation, 2020 Vehicle Emission Factors

```
*** AERMOD - VERSION 19191 ***   *** CWP Implemenation, Bloomington, 2020   ***   05/27/20
*** AERMET - VERSION 16216 ***   *** (Existing Plus Project - Existing No Project) > 100 trucks/day ***   09:43:28
                                                                    ***   PAGE 1
```

*** MODELOPTS: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** 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 726 Source(s),
for Total of 1 Urban Area(s):

Urban Population = 2035210.0 ; 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:

ADJ_U* - Use ADJ_U* option for SBL in AERMET

TEMP_Sub - Meteorological data includes TEMP substitutions

**Model Assumes No FLAGPOLE Receptor Heights.

**The User Specified a Pollutant Type of: OTHER

**Model Calculates PERIOD Averages Only

**This Run Includes: 726 Source(s); 1 Source Group(s); and 923 Receptor(s)

with: 0 POINT(s), including
0 POINTCAP(s) and 0 POINTHOR(s)
and: 726 VOLUME source(s)
and: 0 AREA type source(s)
and: 0 LINE source(s)
and: 0 RLINE/RLINEXT 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.

Model Output - Bloomington

CWP Implementation, 2020 Vehicle Emission Factors

**The AERMET Input Meteorological Data Version Date: 16216

**Output Options Selected:

Model Outputs Tables of PERIOD 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) = 367.00 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0
Emission Units = GRAMS/SEC ; Emission Rate Unit Factor = 0.10000E+07
Output Units = MICROGRAMS/M**3

**Approximate Storage Requirements of Model = 3.9 MB of RAM.

**Input Runstream File: aermod.inp

**Output Print File: aermod.out

**Detailed Error/Message File: ExCWP.err

**File for Summary of Results: ExCWP.sum

Model Output - Bloomington

CWP Implementation, 2020 Vehicle Emission Factors

*** AERMOD - VERSION 19191 *** *** CWP Implemenation, Bloomington, 2020 *** 05/27/20
 *** AERMET - VERSION 16216 *** *** (Existing Plus Project - Existing No Project) > 100 trucks/day *** 09:43:28
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*** MODELOPTS: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0000001	0	0.12280E-05	463463.6	3770043.1	335.7	3.50	11.16	3.26	YES	
L0000002	0	0.12280E-05	463487.6	3770043.0	335.4	3.50	11.16	3.26	YES	
L0000003	0	0.12280E-05	463511.6	3770043.0	335.1	3.50	11.16	3.26	YES	
L0000004	0	0.12280E-05	463535.6	3770042.9	334.8	3.50	11.16	3.26	YES	
L0000005	0	0.12280E-05	463559.6	3770042.9	334.6	3.50	11.16	3.26	YES	
L0000006	0	0.12280E-05	463583.6	3770042.8	334.5	3.50	11.16	3.26	YES	
L0000007	0	0.12280E-05	463607.6	3770042.7	334.5	3.50	11.16	3.26	YES	
L0000008	0	0.12280E-05	463631.6	3770042.7	334.4	3.50	11.16	3.26	YES	
L0000009	0	0.12280E-05	463655.6	3770042.6	334.4	3.50	11.16	3.26	YES	
L0000010	0	0.12280E-05	463679.6	3770042.6	334.3	3.50	11.16	3.26	YES	
L0000011	0	0.12280E-05	463703.6	3770042.5	334.2	3.50	11.16	3.26	YES	
L0000012	0	0.12280E-05	463727.6	3770042.4	334.2	3.50	11.16	3.26	YES	
L0000013	0	0.12280E-05	463751.6	3770042.4	334.3	3.50	11.16	3.26	YES	
L0000014	0	0.12280E-05	463775.6	3770042.3	334.3	3.50	11.16	3.26	YES	
L0000015	0	0.12280E-05	463799.6	3770042.3	334.5	3.50	11.16	3.26	YES	
L0000016	0	0.12280E-05	463823.6	3770042.2	334.6	3.50	11.16	3.26	YES	
L0000017	0	0.12280E-05	463847.6	3770042.1	334.7	3.50	11.16	3.26	YES	
L0000018	0	0.12280E-05	463871.6	3770042.1	334.7	3.50	11.16	3.26	YES	
L0000019	0	0.12280E-05	463895.6	3770042.0	334.7	3.50	11.16	3.26	YES	
L0000020	0	0.12280E-05	463919.6	3770042.0	334.5	3.50	11.16	3.26	YES	
L0000021	0	0.12280E-05	463943.6	3770041.9	334.3	3.50	11.16	3.26	YES	
L0000022	0	0.12280E-05	463967.6	3770041.8	334.1	3.50	11.16	3.26	YES	
L0000023	0	0.12280E-05	463991.6	3770041.8	333.9	3.50	11.16	3.26	YES	
L0000024	0	0.12280E-05	464015.6	3770041.7	333.7	3.50	11.16	3.26	YES	
L0000025	0	0.12280E-05	464039.6	3770041.7	333.5	3.50	11.16	3.26	YES	
L0000076	0	0.25160E-05	461412.9	3769736.1	337.0	3.50	9.77	3.26	YES	
L0000077	0	0.25160E-05	461433.9	3769736.3	337.0	3.50	9.77	3.26	YES	
L0000078	0	0.25160E-05	461454.9	3769736.5	336.9	3.50	9.77	3.26	YES	
L0000079	0	0.25160E-05	461475.9	3769736.7	336.8	3.50	9.77	3.26	YES	
L0000080	0	0.25160E-05	461496.9	3769736.9	336.8	3.50	9.77	3.26	YES	
L0000081	0	0.25160E-05	461517.9	3769737.1	336.7	3.50	9.77	3.26	YES	
L0000082	0	0.25160E-05	461538.9	3769737.2	336.6	3.50	9.77	3.26	YES	
L0000083	0	0.25160E-05	461559.9	3769737.4	336.6	3.50	9.77	3.26	YES	
L0000084	0	0.25160E-05	461580.9	3769737.6	336.5	3.50	9.77	3.26	YES	
L0000085	0	0.25160E-05	461601.9	3769737.8	336.5	3.50	9.77	3.26	YES	
L0000086	0	0.25160E-05	461622.9	3769738.0	336.4	3.50	9.77	3.26	YES	
L0000087	0	0.25160E-05	461643.9	3769738.1	336.4	3.50	9.77	3.26	YES	
L0000088	0	0.25160E-05	461664.9	3769738.3	336.4	3.50	9.77	3.26	YES	

Model Output - Bloomington

CWP Implementation, 2020 Vehicle Emission Factors

L0000089 0 0.25160E-05 461685.9 3769738.5 336.4 3.50 9.77 3.26 YES
 L0000090 0 0.25160E-05 461706.9 3769738.7 336.4 3.50 9.77 3.26 YES
 *** AERMOD - VERSION 19191 *** *** CWP Implementation, Bloomington, 2020
 *** AERMET - VERSION 16216 *** *** (Existing Plus Project - Existing No Project) > 100 trucks/day

*** 05/27/20
 *** 09:43:28
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0000091	0	0.25160E-05	461727.9	3769738.9	336.4	3.50	9.77	3.26	YES	
L0000092	0	0.25160E-05	461748.9	3769739.1	336.3	3.50	9.77	3.26	YES	
L0000093	0	0.25160E-05	461769.9	3769739.2	336.3	3.50	9.77	3.26	YES	
L0000094	0	0.25160E-05	461790.9	3769739.4	336.3	3.50	9.77	3.26	YES	
L0000095	0	0.25160E-05	461811.9	3769739.6	336.3	3.50	9.77	3.26	YES	
L0000096	0	0.25160E-05	461832.9	3769739.8	336.3	3.50	9.77	3.26	YES	
L0000097	0	0.25160E-05	461853.9	3769740.0	336.2	3.50	9.77	3.26	YES	
L0000098	0	0.25160E-05	461874.9	3769740.2	336.2	3.50	9.77	3.26	YES	
L0000099	0	0.25160E-05	461895.8	3769740.7	336.2	3.50	9.77	3.26	YES	
L0000100	0	0.25160E-05	461916.8	3769741.2	336.2	3.50	9.77	3.26	YES	
L0000101	0	0.25160E-05	461937.8	3769741.7	336.2	3.50	9.77	3.26	YES	
L0000102	0	0.25160E-05	461958.8	3769742.2	336.2	3.50	9.77	3.26	YES	
L0000103	0	0.25160E-05	461979.8	3769742.8	336.1	3.50	9.77	3.26	YES	
L0000104	0	0.25160E-05	462000.8	3769743.3	336.1	3.50	9.77	3.26	YES	
L0000105	0	0.25160E-05	462021.8	3769743.8	336.1	3.50	9.77	3.26	YES	
L0000106	0	0.25160E-05	462042.8	3769744.3	336.0	3.50	9.77	3.26	YES	
L0000107	0	0.25160E-05	462063.8	3769744.8	336.0	3.50	9.77	3.26	YES	
L0000108	0	0.25160E-05	462084.8	3769745.4	336.0	3.50	9.77	3.26	YES	
L0000109	0	0.25160E-05	462105.8	3769745.9	336.0	3.50	9.77	3.26	YES	
L0000110	0	0.25160E-05	462126.8	3769746.4	335.9	3.50	9.77	3.26	YES	
L0000111	0	0.25160E-05	462147.8	3769746.9	335.9	3.50	9.77	3.26	YES	
L0000112	0	0.25160E-05	462168.8	3769747.4	335.9	3.50	9.77	3.26	YES	
L0000113	0	0.25160E-05	462189.8	3769748.0	335.9	3.50	9.77	3.26	YES	
L0000114	0	0.25160E-05	462210.8	3769748.5	335.9	3.50	9.77	3.26	YES	
L0000115	0	0.25160E-05	462231.7	3769748.9	335.9	3.50	9.77	3.26	YES	
L0000116	0	0.25160E-05	462252.7	3769749.4	335.9	3.50	9.77	3.26	YES	
L0000117	0	0.25160E-05	462273.7	3769749.8	335.9	3.50	9.77	3.26	YES	
L0000118	0	0.25160E-05	462294.7	3769750.3	336.0	3.50	9.77	3.26	YES	
L0000119	0	0.25160E-05	462315.7	3769750.8	336.0	3.50	9.77	3.26	YES	
L0000120	0	0.25160E-05	462336.7	3769751.2	336.1	3.50	9.77	3.26	YES	
L0000121	0	0.25160E-05	462357.7	3769751.7	336.1	3.50	9.77	3.26	YES	
L0000122	0	0.25160E-05	462378.7	3769752.1	336.1	3.50	9.77	3.26	YES	
L0000123	0	0.25160E-05	462399.7	3769752.6	336.1	3.50	9.77	3.26	YES	
L0000124	0	0.25160E-05	462420.7	3769753.0	336.1	3.50	9.77	3.26	YES	
L0000125	0	0.25160E-05	462441.7	3769753.5	336.1	3.50	9.77	3.26	YES	
L0000126	0	0.25160E-05	462462.7	3769754.0	336.2	3.50	9.77	3.26	YES	

Model Output - Bloomington

CWP Implementation, 2020 Vehicle Emission Factors

L0000127	0	0.25160E-05	462483.7	3769754.4	336.2	3.50	9.77	3.26	YES
L0000128	0	0.25160E-05	462504.7	3769754.9	336.2	3.50	9.77	3.26	YES
L0000129	0	0.25160E-05	462525.7	3769755.3	336.2	3.50	9.77	3.26	YES
L0000130	0	0.25160E-05	462546.7	3769755.8	336.2	3.50	9.77	3.26	YES

*** AERMOD - VERSION 19191 *** *** CWP Implemenation, Bloomington, 2020 ***

*** AERMET - VERSION 16216 *** *** (Existing Plus Project - Existing No Project) > 100 trucks/day ***

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0000131	0	0.25160E-05	462567.7	3769756.2	336.2	3.50	9.77	3.26	YES	
L0000132	0	0.25160E-05	462588.7	3769756.7	336.1	3.50	9.77	3.26	YES	
L0000133	0	0.25160E-05	462609.6	3769757.5	336.1	3.50	9.77	3.26	YES	
L0000134	0	0.25160E-05	462630.6	3769758.3	336.1	3.50	9.77	3.26	YES	
L0000135	0	0.25160E-05	462651.6	3769759.0	336.0	3.50	9.77	3.26	YES	
L0000136	0	0.25160E-05	462672.6	3769759.8	335.9	3.50	9.77	3.26	YES	
L0000137	0	0.25160E-05	462693.6	3769760.5	335.9	3.50	9.77	3.26	YES	
L0000138	0	0.29330E-05	462724.2	3769768.0	335.8	3.50	9.77	3.26	YES	
L0000139	0	0.29330E-05	462745.1	3769770.2	335.7	3.50	9.77	3.26	YES	
L0000140	0	0.29330E-05	462766.0	3769772.4	335.6	3.50	9.77	3.26	YES	
L0000141	0	0.29330E-05	462786.9	3769774.6	335.6	3.50	9.77	3.26	YES	
L0000142	0	0.29330E-05	462807.8	3769776.8	335.5	3.50	9.77	3.26	YES	
L0000143	0	0.29330E-05	462828.7	3769779.0	335.5	3.50	9.77	3.26	YES	
L0000144	0	0.29330E-05	462849.5	3769781.2	335.4	3.50	9.77	3.26	YES	
L0000145	0	0.29330E-05	462870.4	3769783.4	335.4	3.50	9.77	3.26	YES	
L0000146	0	0.29330E-05	462891.3	3769785.5	335.3	3.50	9.77	3.26	YES	
L0000147	0	0.29330E-05	462912.2	3769787.6	335.3	3.50	9.77	3.26	YES	
L0000148	0	0.29330E-05	462933.1	3769789.7	335.3	3.50	9.77	3.26	YES	
L0000149	0	0.29330E-05	462954.0	3769791.8	335.2	3.50	9.77	3.26	YES	
L0000150	0	0.29330E-05	462974.9	3769793.9	335.2	3.50	9.77	3.26	YES	
L0000151	0	0.29330E-05	462995.8	3769796.0	335.1	3.50	9.77	3.26	YES	
L0000152	0	0.29330E-05	463016.7	3769798.0	335.1	3.50	9.77	3.26	YES	
L0000153	0	0.29330E-05	463037.6	3769799.9	335.1	3.50	9.77	3.26	YES	
L0000154	0	0.29330E-05	463058.5	3769801.9	335.0	3.50	9.77	3.26	YES	
L0000155	0	0.29330E-05	463079.4	3769803.8	334.9	3.50	9.77	3.26	YES	
L0000156	0	0.29330E-05	463100.3	3769805.7	334.8	3.50	9.77	3.26	YES	
L0000157	0	0.29330E-05	463121.3	3769807.6	334.7	3.50	9.77	3.26	YES	
L0000158	0	0.29330E-05	463142.2	3769809.6	334.5	3.50	9.77	3.26	YES	
L0000159	0	0.29330E-05	463163.1	3769811.5	334.3	3.50	9.77	3.26	YES	
L0000160	0	0.29330E-05	463184.0	3769813.4	334.1	3.50	9.77	3.26	YES	
L0000161	0	0.29330E-05	463204.9	3769815.4	333.9	3.50	9.77	3.26	YES	
L0000162	0	0.29330E-05	463225.8	3769817.5	333.7	3.50	9.77	3.26	YES	
L0000163	0	0.29330E-05	463246.7	3769819.6	333.5	3.50	9.77	3.26	YES	
L0000164	0	0.29330E-05	463267.6	3769821.7	333.2	3.50	9.77	3.26	YES	

Model Output - Bloomington

CWP Implementation, 2020 Vehicle Emission Factors

L0000165	0	0.29330E-05	463288.5	3769823.8	333.0	3.50	9.77	3.26	YES	
L0000166	0	0.29330E-05	463309.4	3769825.9	332.7	3.50	9.77	3.26	YES	
L0000167	0	0.29330E-05	463330.3	3769827.0	332.5	3.50	9.77	3.26	YES	
L0000168	0	0.29330E-05	463351.3	3769827.7	332.2	3.50	9.77	3.26	YES	
L0000169	0	0.29330E-05	463372.3	3769828.3	331.9	3.50	9.77	3.26	YES	
L0000170	0	0.29330E-05	463393.3	3769828.9	331.7	3.50	9.77	3.26	YES	
*** AERMOD - VERSION	19191	***	*** CWP Implementation, Bloomington, 2020							***
*** AERMET - VERSION	16216	***	*** (Existing Plus Project - Existing No Project) > 100 trucks/day							***

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0000171	0	0.29330E-05	463414.3	3769829.6	331.4	3.50	9.77	3.26	YES	
L0000172	0	0.29330E-05	463435.3	3769830.2	331.2	3.50	9.77	3.26	YES	
L0000173	0	0.29330E-05	463456.3	3769831.0	330.9	3.50	9.77	3.26	YES	
L0000174	0	0.29330E-05	463477.2	3769832.4	330.7	3.50	9.77	3.26	YES	
L0000175	0	0.29330E-05	463498.2	3769833.9	330.5	3.50	9.77	3.26	YES	
L0000176	0	0.29330E-05	463519.1	3769835.4	330.2	3.50	9.77	3.26	YES	
L0000177	0	0.29330E-05	463540.1	3769836.8	330.0	3.50	9.77	3.26	YES	
L0000178	0	0.29330E-05	463561.0	3769836.2	329.7	3.50	9.77	3.26	YES	
L0000179	0	0.29330E-05	463582.0	3769835.4	329.5	3.50	9.77	3.26	YES	
L0000180	0	0.29330E-05	463603.0	3769834.6	329.2	3.50	9.77	3.26	YES	
L0000181	0	0.29330E-05	463624.0	3769833.8	329.0	3.50	9.77	3.26	YES	
L0000182	0	0.29330E-05	463645.0	3769833.0	328.7	3.50	9.77	3.26	YES	
L0000183	0	0.29330E-05	463666.0	3769831.9	328.5	3.50	9.77	3.26	YES	
L0000184	0	0.29330E-05	463686.9	3769830.7	328.2	3.50	9.77	3.26	YES	
L0000185	0	0.29330E-05	463707.9	3769829.5	327.9	3.50	9.77	3.26	YES	
L0000186	0	0.29330E-05	463728.8	3769828.3	327.6	3.50	9.77	3.26	YES	
L0000187	0	0.29330E-05	463749.8	3769827.1	327.4	3.50	9.77	3.26	YES	
L0000188	0	0.29330E-05	463770.8	3769825.9	327.0	3.50	9.77	3.26	YES	
L0000189	0	0.29330E-05	463791.7	3769824.7	326.7	3.50	9.77	3.26	YES	
L0000190	0	0.29330E-05	463812.7	3769823.5	326.4	3.50	9.77	3.26	YES	
L0000191	0	0.29330E-05	463833.7	3769822.2	326.2	3.50	9.77	3.26	YES	
L0000192	0	0.29330E-05	463854.6	3769820.3	325.9	3.50	9.77	3.26	YES	
L0000193	0	0.29330E-05	463875.5	3769818.4	325.8	3.50	9.77	3.26	YES	
L0000194	0	0.29330E-05	463896.4	3769816.5	325.6	3.50	9.77	3.26	YES	
L0000195	0	0.29330E-05	463917.3	3769814.7	325.4	3.50	9.77	3.26	YES	
L0000196	0	0.29330E-05	463938.2	3769812.8	325.4	3.50	9.77	3.26	YES	
L0000197	0	0.29330E-05	463959.2	3769810.9	325.3	3.50	9.77	3.26	YES	
L0000198	0	0.28090E-05	463986.8	3769808.7	325.3	3.50	9.77	3.26	YES	
L0000199	0	0.28090E-05	464007.8	3769807.6	325.3	3.50	9.77	3.26	YES	
L0000200	0	0.28090E-05	464028.8	3769806.5	325.3	3.50	9.77	3.26	YES	
L0000201	0	0.28090E-05	464049.7	3769805.4	325.2	3.50	9.77	3.26	YES	
L0000202	0	0.28090E-05	464070.7	3769804.3	325.2	3.50	9.77	3.26	YES	

Model Output - Bloomington

CWP Implementation, 2020 Vehicle Emission Factors

L0000203	0	0.28090E-05	464091.7	3769804.0	325.2	3.50	9.77	3.26	YES
L0000204	0	0.28090E-05	464112.7	3769803.8	325.2	3.50	9.77	3.26	YES
L0000205	0	0.28090E-05	464133.7	3769803.6	325.1	3.50	9.77	3.26	YES
L0000206	0	0.28090E-05	464154.7	3769803.4	325.1	3.50	9.77	3.26	YES
L0000207	0	0.28090E-05	464175.7	3769803.2	325.1	3.50	9.77	3.26	YES
L0000208	0	0.28090E-05	464196.7	3769803.0	325.1	3.50	9.77	3.26	YES
L0000209	0	0.28420E-05	461413.7	3769708.3	336.7	3.50	9.77	3.26	YES
L0000210	0	0.28420E-05	461434.7	3769709.0	336.6	3.50	9.77	3.26	YES

*** AERMOD - VERSION 19191 *** *** CWP Implemenation, Bloomington, 2020 ***
 *** AERMET - VERSION 16216 *** *** (Existing Plus Project - Existing No Project) > 100 trucks/day ***

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0000211	0	0.28420E-05	461455.7	3769709.6	336.6	3.50	9.77	3.26	YES	
L0000212	0	0.28420E-05	461476.7	3769710.3	336.5	3.50	9.77	3.26	YES	
L0000213	0	0.28420E-05	461497.6	3769710.9	336.4	3.50	9.77	3.26	YES	
L0000214	0	0.28420E-05	461518.6	3769711.6	336.4	3.50	9.77	3.26	YES	
L0000215	0	0.28420E-05	461539.6	3769712.2	336.3	3.50	9.77	3.26	YES	
L0000216	0	0.28420E-05	461560.6	3769712.9	336.3	3.50	9.77	3.26	YES	
L0000217	0	0.28420E-05	461581.6	3769713.5	336.2	3.50	9.77	3.26	YES	
L0000218	0	0.28420E-05	461602.6	3769714.2	336.2	3.50	9.77	3.26	YES	
L0000219	0	0.28420E-05	461623.6	3769714.8	336.2	3.50	9.77	3.26	YES	
L0000220	0	0.28420E-05	461644.6	3769715.5	336.2	3.50	9.77	3.26	YES	
L0000221	0	0.28420E-05	461665.6	3769716.1	336.1	3.50	9.77	3.26	YES	
L0000222	0	0.28420E-05	461686.6	3769716.8	336.1	3.50	9.77	3.26	YES	
L0000223	0	0.28420E-05	461707.5	3769717.5	336.1	3.50	9.77	3.26	YES	
L0000224	0	0.28420E-05	461728.5	3769718.1	336.1	3.50	9.77	3.26	YES	
L0000225	0	0.28420E-05	461749.5	3769718.8	336.1	3.50	9.77	3.26	YES	
L0000226	0	0.28420E-05	461770.5	3769719.4	336.0	3.50	9.77	3.26	YES	
L0000227	0	0.28420E-05	461791.5	3769720.1	336.0	3.50	9.77	3.26	YES	
L0000228	0	0.28420E-05	461812.5	3769720.7	336.0	3.50	9.77	3.26	YES	
L0000229	0	0.28420E-05	461833.5	3769721.2	336.0	3.50	9.77	3.26	YES	
L0000230	0	0.28420E-05	461854.5	3769721.6	336.0	3.50	9.77	3.26	YES	
L0000231	0	0.28420E-05	461875.5	3769722.1	336.0	3.50	9.77	3.26	YES	
L0000232	0	0.28420E-05	461896.5	3769722.5	335.9	3.50	9.77	3.26	YES	
L0000233	0	0.28420E-05	461917.5	3769723.0	335.9	3.50	9.77	3.26	YES	
L0000234	0	0.28420E-05	461938.5	3769723.4	335.9	3.50	9.77	3.26	YES	
L0000235	0	0.28420E-05	461959.5	3769723.9	335.9	3.50	9.77	3.26	YES	
L0000236	0	0.28420E-05	461980.5	3769724.3	335.9	3.50	9.77	3.26	YES	
L0000237	0	0.28420E-05	462001.5	3769724.7	335.8	3.50	9.77	3.26	YES	
L0000238	0	0.28420E-05	462022.4	3769725.2	335.8	3.50	9.77	3.26	YES	
L0000239	0	0.28420E-05	462043.4	3769725.6	335.8	3.50	9.77	3.26	YES	
L0000240	0	0.28420E-05	462064.4	3769726.1	335.8	3.50	9.77	3.26	YES	

Model Output - Bloomington

CWP Implementation, 2020 Vehicle Emission Factors

L0000241	0	0.28420E-05	462085.4	3769726.5	335.7	3.50	9.77	3.26	YES
L0000242	0	0.28420E-05	462106.4	3769727.0	335.7	3.50	9.77	3.26	YES
L0000243	0	0.28420E-05	462127.4	3769727.4	335.7	3.50	9.77	3.26	YES
L0000244	0	0.28420E-05	462148.4	3769727.9	335.7	3.50	9.77	3.26	YES
L0000245	0	0.28420E-05	462169.4	3769728.3	335.7	3.50	9.77	3.26	YES
L0000246	0	0.28420E-05	462190.4	3769728.8	335.7	3.50	9.77	3.26	YES
L0000247	0	0.28420E-05	462211.4	3769729.2	335.7	3.50	9.77	3.26	YES
L0000248	0	0.28420E-05	462232.4	3769729.5	335.7	3.50	9.77	3.26	YES
L0000249	0	0.28420E-05	462253.4	3769729.7	335.7	3.50	9.77	3.26	YES
L0000250	0	0.28420E-05	462274.4	3769729.9	335.7	3.50	9.77	3.26	YES

*** AERMOD - VERSION 19191 *** *** CWP Implemenation, Bloomington, 2020

*** AERMET - VERSION 16216 *** *** (Existing Plus Project - Existing No Project) > 100 trucks/day

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0000251	0	0.28420E-05	462295.4	3769730.2	335.7	3.50	9.77	3.26	YES	
L0000252	0	0.28420E-05	462316.4	3769730.4	335.7	3.50	9.77	3.26	YES	
L0000253	0	0.28420E-05	462337.4	3769730.6	335.8	3.50	9.77	3.26	YES	
L0000254	0	0.28420E-05	462358.4	3769730.9	335.8	3.50	9.77	3.26	YES	
L0000255	0	0.28420E-05	462379.4	3769731.1	335.8	3.50	9.77	3.26	YES	
L0000256	0	0.28420E-05	462400.4	3769731.3	335.8	3.50	9.77	3.26	YES	
L0000257	0	0.28420E-05	462421.4	3769731.6	335.9	3.50	9.77	3.26	YES	
L0000258	0	0.28420E-05	462442.4	3769731.8	335.9	3.50	9.77	3.26	YES	
L0000259	0	0.28420E-05	462463.4	3769732.0	335.9	3.50	9.77	3.26	YES	
L0000260	0	0.28420E-05	462484.4	3769732.3	335.9	3.50	9.77	3.26	YES	
L0000261	0	0.28420E-05	462505.4	3769732.5	335.9	3.50	9.77	3.26	YES	
L0000262	0	0.28420E-05	462526.4	3769732.7	335.9	3.50	9.77	3.26	YES	
L0000263	0	0.28420E-05	462547.4	3769733.0	336.0	3.50	9.77	3.26	YES	
L0000264	0	0.28420E-05	462568.4	3769733.2	336.1	3.50	9.77	3.26	YES	
L0000265	0	0.28420E-05	462589.4	3769733.5	336.1	3.50	9.77	3.26	YES	
L0000266	0	0.31170E-05	462614.8	3769735.8	336.1	3.50	9.77	3.26	YES	
L0000267	0	0.31170E-05	462635.8	3769736.1	336.1	3.50	9.77	3.26	YES	
L0000268	0	0.31170E-05	462656.8	3769736.4	336.0	3.50	9.77	3.26	YES	
L0000269	0	0.31170E-05	462677.8	3769736.8	335.9	3.50	9.77	3.26	YES	
L0000270	0	0.31170E-05	462698.8	3769737.1	335.9	3.50	9.77	3.26	YES	
L0000271	0	0.31170E-05	462719.8	3769737.4	335.9	3.50	9.77	3.26	YES	
L0000272	0	0.31170E-05	462740.8	3769737.7	335.9	3.50	9.77	3.26	YES	
L0000273	0	0.31170E-05	462761.6	3769740.4	335.9	3.50	9.77	3.26	YES	
L0000274	0	0.31170E-05	462782.4	3769743.3	335.8	3.50	9.77	3.26	YES	
L0000275	0	0.31170E-05	462803.2	3769746.1	335.7	3.50	9.77	3.26	YES	
L0000276	0	0.31170E-05	462824.0	3769749.0	335.7	3.50	9.77	3.26	YES	
L0000277	0	0.31170E-05	462844.8	3769751.9	335.6	3.50	9.77	3.26	YES	
L0000278	0	0.31170E-05	462865.6	3769754.8	335.5	3.50	9.77	3.26	YES	

Model Output - Bloomington

CWP Implementation, 2020 Vehicle Emission Factors

L0000279	0	0.31170E-05	462886.4	3769757.7	335.4	3.50	9.77	3.26	YES
L0000280	0	0.31170E-05	462907.2	3769760.5	335.3	3.50	9.77	3.26	YES
L0000281	0	0.31170E-05	462928.0	3769763.4	335.3	3.50	9.77	3.26	YES
L0000282	0	0.31170E-05	462948.8	3769766.0	335.2	3.50	9.77	3.26	YES
L0000283	0	0.31170E-05	462969.7	3769768.1	335.2	3.50	9.77	3.26	YES
L0000284	0	0.31170E-05	462990.6	3769770.1	335.2	3.50	9.77	3.26	YES
L0000285	0	0.31170E-05	463011.5	3769772.2	335.1	3.50	9.77	3.26	YES
L0000286	0	0.31170E-05	463032.4	3769774.2	335.1	3.50	9.77	3.26	YES
L0000287	0	0.31170E-05	463053.3	3769776.3	335.1	3.50	9.77	3.26	YES
L0000288	0	0.31170E-05	463074.2	3769778.3	335.0	3.50	9.77	3.26	YES
L0000289	0	0.31170E-05	463095.1	3769780.3	334.9	3.50	9.77	3.26	YES
L0000290	0	0.31170E-05	463116.0	3769782.4	334.7	3.50	9.77	3.26	YES

*** AERMOD - VERSION 19191 *** *** CWP Implemenation, Bloomington, 2020 ***
 *** AERMET - VERSION 16216 *** *** (Existing Plus Project - Existing No Project) > 100 trucks/day ***

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0000291	0	0.31170E-05	463136.9	3769784.4	334.6	3.50	9.77	3.26	YES	
L0000292	0	0.31170E-05	463157.9	3769786.3	334.4	3.50	9.77	3.26	YES	
L0000293	0	0.31170E-05	463178.8	3769788.2	334.1	3.50	9.77	3.26	YES	
L0000294	0	0.31170E-05	463199.7	3769790.1	333.8	3.50	9.77	3.26	YES	
L0000295	0	0.31170E-05	463220.6	3769792.0	333.6	3.50	9.77	3.26	YES	
L0000296	0	0.31170E-05	463241.5	3769793.9	333.4	3.50	9.77	3.26	YES	
L0000297	0	0.31170E-05	463262.4	3769795.8	333.1	3.50	9.77	3.26	YES	
L0000298	0	0.31170E-05	463283.3	3769797.7	332.9	3.50	9.77	3.26	YES	
L0000299	0	0.31170E-05	463304.3	3769799.6	332.6	3.50	9.77	3.26	YES	
L0000300	0	0.31170E-05	463325.2	3769801.5	332.3	3.50	9.77	3.26	YES	
L0000301	0	0.31170E-05	463346.1	3769802.9	332.1	3.50	9.77	3.26	YES	
L0000302	0	0.31170E-05	463367.1	3769804.2	331.9	3.50	9.77	3.26	YES	
L0000303	0	0.31170E-05	463388.0	3769805.5	331.7	3.50	9.77	3.26	YES	
L0000304	0	0.31170E-05	463409.0	3769806.9	331.4	3.50	9.77	3.26	YES	
L0000305	0	0.31170E-05	463430.0	3769808.2	331.1	3.50	9.77	3.26	YES	
L0000306	0	0.31170E-05	463450.9	3769809.5	330.8	3.50	9.77	3.26	YES	
L0000307	0	0.31170E-05	463471.9	3769809.8	330.5	3.50	9.77	3.26	YES	
L0000308	0	0.31170E-05	463492.9	3769809.5	330.3	3.50	9.77	3.26	YES	
L0000309	0	0.31170E-05	463513.9	3769809.2	330.0	3.50	9.77	3.26	YES	
L0000310	0	0.31170E-05	463534.9	3769808.9	329.8	3.50	9.77	3.26	YES	
L0000311	0	0.31170E-05	463555.9	3769808.6	329.5	3.50	9.77	3.26	YES	
L0000312	0	0.31170E-05	463576.9	3769808.3	329.2	3.50	9.77	3.26	YES	
L0000313	0	0.31170E-05	463597.9	3769808.0	329.0	3.50	9.77	3.26	YES	
L0000314	0	0.31170E-05	463618.8	3769807.0	328.8	3.50	9.77	3.26	YES	
L0000315	0	0.31170E-05	463639.8	3769805.4	328.5	3.50	9.77	3.26	YES	
L0000316	0	0.31170E-05	463660.7	3769803.8	328.3	3.50	9.77	3.26	YES	

Model Output - Bloomington

CWP Implementation, 2020 Vehicle Emission Factors

L0000317	0	0.31170E-05	463681.7	3769802.2	328.0	3.50	9.77	3.26	YES	
L0000318	0	0.31170E-05	463702.6	3769800.5	327.7	3.50	9.77	3.26	YES	
L0000319	0	0.31170E-05	463723.5	3769798.9	327.5	3.50	9.77	3.26	YES	
L0000320	0	0.31170E-05	463744.5	3769797.3	327.2	3.50	9.77	3.26	YES	
L0000321	0	0.31170E-05	463765.4	3769795.7	327.0	3.50	9.77	3.26	YES	
L0000322	0	0.31170E-05	463786.3	3769794.0	326.8	3.50	9.77	3.26	YES	
L0000323	0	0.31170E-05	463807.3	3769792.4	326.5	3.50	9.77	3.26	YES	
L0000324	0	0.31170E-05	463828.2	3769790.8	326.2	3.50	9.77	3.26	YES	
L0000325	0	0.31170E-05	463849.2	3769789.7	325.9	3.50	9.77	3.26	YES	
L0000326	0	0.31170E-05	463870.2	3769788.5	325.7	3.50	9.77	3.26	YES	
L0000327	0	0.31170E-05	463891.1	3769787.4	325.6	3.50	9.77	3.26	YES	
L0000328	0	0.31170E-05	463912.1	3769786.2	325.5	3.50	9.77	3.26	YES	
L0000329	0	0.31170E-05	463933.1	3769785.1	325.4	3.50	9.77	3.26	YES	
L0000330	0	0.31170E-05	463954.0	3769783.9	325.5	3.50	9.77	3.26	YES	
*** AERMOD - VERSION	19191	***	*** CWP Implementation, Bloomington, 2020							***
*** AERMET - VERSION	16216	***	*** (Existing Plus Project - Existing No Project) > 100 trucks/day							***

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0000331	0	0.31170E-05	463975.0	3769782.8	325.5	3.50	9.77	3.26	YES	
L0000332	0	0.31170E-05	463996.0	3769781.9	325.5	3.50	9.77	3.26	YES	
L0000333	0	0.31170E-05	464017.0	3769781.3	325.5	3.50	9.77	3.26	YES	
L0000334	0	0.31170E-05	464038.0	3769780.6	325.4	3.50	9.77	3.26	YES	
L0000335	0	0.31170E-05	464059.0	3769779.9	325.4	3.50	9.77	3.26	YES	
L0000336	0	0.31170E-05	464079.9	3769779.2	325.4	3.50	9.77	3.26	YES	
L0000337	0	0.31170E-05	464100.9	3769778.6	325.4	3.50	9.77	3.26	YES	
L0000338	0	0.31170E-05	464121.9	3769778.0	325.3	3.50	9.77	3.26	YES	
L0000339	0	0.31170E-05	464142.9	3769777.5	325.3	3.50	9.77	3.26	YES	
L0000340	0	0.31170E-05	464163.9	3769777.0	325.3	3.50	9.77	3.26	YES	
L0000341	0	0.31170E-05	464184.9	3769776.6	325.0	3.50	9.77	3.26	YES	
L0000342	0	0.31170E-05	464205.9	3769776.1	325.3	3.50	9.77	3.26	YES	
L0000530	0	0.90450E-06	461420.9	3769233.2	330.3	3.50	10.70	3.26	YES	
L0000531	0	0.90450E-06	461443.9	3769233.5	330.2	3.50	10.70	3.26	YES	
L0000532	0	0.90450E-06	461466.9	3769233.8	330.2	3.50	10.70	3.26	YES	
L0000533	0	0.90450E-06	461489.9	3769234.1	330.1	3.50	10.70	3.26	YES	
L0000534	0	0.90450E-06	461512.9	3769234.4	330.0	3.50	10.70	3.26	YES	
L0000535	0	0.90450E-06	461535.9	3769234.7	329.9	3.50	10.70	3.26	YES	
L0000536	0	0.90450E-06	461558.8	3769235.0	329.9	3.50	10.70	3.26	YES	
L0000537	0	0.90450E-06	461581.8	3769235.3	329.8	3.50	10.70	3.26	YES	
L0000538	0	0.90450E-06	461604.8	3769235.6	329.7	3.50	10.70	3.26	YES	
L0000539	0	0.90450E-06	461627.8	3769235.9	329.7	3.50	10.70	3.26	YES	
L0000540	0	0.90450E-06	461650.8	3769236.2	329.6	3.50	10.70	3.26	YES	
L0000541	0	0.81250E-06	461682.8	3769234.7	329.5	3.50	10.70	3.26	YES	

Model Output - Bloomington

CWP Implementation, 2020 Vehicle Emission Factors

L0000542	0	0.81250E-06	461705.8	3769234.8	329.4	3.50	10.70	3.26	YES
L0000543	0	0.81250E-06	461728.8	3769235.0	329.4	3.50	10.70	3.26	YES
L0000544	0	0.81250E-06	461751.8	3769235.1	329.3	3.50	10.70	3.26	YES
L0000545	0	0.81250E-06	461774.8	3769235.2	329.2	3.50	10.70	3.26	YES
L0000546	0	0.81250E-06	461797.8	3769235.3	329.2	3.50	10.70	3.26	YES
L0000547	0	0.81250E-06	461820.8	3769235.4	329.1	3.50	10.70	3.26	YES
L0000548	0	0.81250E-06	461843.8	3769235.5	329.0	3.50	10.70	3.26	YES
L0000549	0	0.81250E-06	461866.8	3769235.6	329.0	3.50	10.70	3.26	YES
L0000550	0	0.81250E-06	461889.8	3769235.8	328.9	3.50	10.70	3.26	YES
L0000551	0	0.81250E-06	461912.8	3769235.9	328.9	3.50	10.70	3.26	YES
L0000552	0	0.81250E-06	461935.8	3769236.0	328.8	3.50	10.70	3.26	YES
L0000553	0	0.81250E-06	461958.8	3769236.1	328.8	3.50	10.70	3.26	YES
L0000554	0	0.81250E-06	461981.8	3769236.2	328.7	3.50	10.70	3.26	YES
L0000555	0	0.81250E-06	462004.8	3769236.3	328.6	3.50	10.70	3.26	YES
L0000556	0	0.81250E-06	462027.8	3769236.2	328.6	3.50	10.70	3.26	YES
L0000557	0	0.81250E-06	462050.8	3769236.0	328.5	3.50	10.70	3.26	YES

*** AERMOD - VERSION 19191 *** *** CWP Implemenation, Bloomington, 2020 ***

*** AERMET - VERSION 16216 *** *** (Existing Plus Project - Existing No Project) > 100 trucks/day ***

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0000558	0	0.81250E-06	462073.8	3769235.8	328.4	3.50	10.70	3.26	YES	
L0000559	0	0.81250E-06	462096.8	3769235.6	328.3	3.50	10.70	3.26	YES	
L0000560	0	0.81250E-06	462119.8	3769235.4	328.2	3.50	10.70	3.26	YES	
L0000561	0	0.81250E-06	462142.8	3769235.2	328.2	3.50	10.70	3.26	YES	
L0000562	0	0.81250E-06	462165.8	3769235.1	328.1	3.50	10.70	3.26	YES	
L0000563	0	0.81250E-06	462188.8	3769234.9	328.0	3.50	10.70	3.26	YES	
L0000564	0	0.81250E-06	462211.8	3769234.7	328.0	3.50	10.70	3.26	YES	
L0000565	0	0.19000E-05	462244.7	3769234.0	328.1	3.50	10.70	3.26	YES	
L0000566	0	0.19000E-05	462267.7	3769234.0	328.2	3.50	10.70	3.26	YES	
L0000567	0	0.19000E-05	462290.7	3769234.0	328.3	3.50	10.70	3.26	YES	
L0000568	0	0.19000E-05	462313.7	3769234.0	328.4	3.50	10.70	3.26	YES	
L0000569	0	0.19000E-05	462336.7	3769234.0	328.5	3.50	10.70	3.26	YES	
L0000570	0	0.19000E-05	462359.7	3769234.0	328.6	3.50	10.70	3.26	YES	
L0000571	0	0.19000E-05	462382.7	3769234.0	328.7	3.50	10.70	3.26	YES	
L0000572	0	0.19000E-05	462405.7	3769234.0	328.8	3.50	10.70	3.26	YES	
L0000573	0	0.19000E-05	462428.7	3769234.0	328.9	3.50	10.70	3.26	YES	
L0000574	0	0.19000E-05	462451.7	3769234.0	329.0	3.50	10.70	3.26	YES	
L0000575	0	0.19000E-05	462474.7	3769234.0	329.1	3.50	10.70	3.26	YES	
L0000576	0	0.19000E-05	462497.7	3769234.0	329.2	3.50	10.70	3.26	YES	
L0000577	0	0.19000E-05	462520.7	3769234.0	329.1	3.50	10.70	3.26	YES	
L0000578	0	0.19000E-05	462543.7	3769234.0	329.0	3.50	10.70	3.26	YES	
L0000579	0	0.19000E-05	462566.7	3769234.0	328.9	3.50	10.70	3.26	YES	

Model Output - Bloomington

CWP Implementation, 2020 Vehicle Emission Factors

L0000580	0	0.19000E-05	462589.7	3769234.0	328.9	3.50	10.70	3.26	YES
L0000581	0	0.19000E-05	462612.7	3769234.0	328.8	3.50	10.70	3.26	YES
L0000582	0	0.34590E-06	463826.1	3769231.6	323.1	3.50	5.12	3.26	YES
L0000583	0	0.34590E-06	463837.1	3769231.5	323.0	3.50	5.12	3.26	YES
L0000584	0	0.34590E-06	463848.1	3769231.5	322.9	3.50	5.12	3.26	YES
L0000585	0	0.34590E-06	463859.1	3769231.5	322.8	3.50	5.12	3.26	YES
L0000586	0	0.34590E-06	463870.1	3769231.4	322.6	3.50	5.12	3.26	YES
L0000587	0	0.34590E-06	463881.1	3769231.4	322.4	3.50	5.12	3.26	YES
L0000588	0	0.34590E-06	463892.1	3769231.4	322.3	3.50	5.12	3.26	YES
L0000589	0	0.34590E-06	463903.1	3769231.3	322.1	3.50	5.12	3.26	YES
L0000590	0	0.34590E-06	463914.1	3769231.3	322.0	3.50	5.12	3.26	YES
L0000591	0	0.34590E-06	463925.1	3769231.3	321.9	3.50	5.12	3.26	YES
L0000592	0	0.34590E-06	463936.1	3769231.2	321.8	3.50	5.12	3.26	YES
L0000593	0	0.34590E-06	463947.1	3769231.2	321.7	3.50	5.12	3.26	YES
L0000594	0	0.34590E-06	463958.1	3769231.2	321.6	3.50	5.12	3.26	YES
L0000595	0	0.34590E-06	463969.1	3769231.1	321.5	3.50	5.12	3.26	YES
L0000596	0	0.34590E-06	463980.1	3769231.1	321.4	3.50	5.12	3.26	YES
L0000597	0	0.34590E-06	463991.1	3769231.1	321.3	3.50	5.12	3.26	YES

*** AERMOD - VERSION 19191 *** CWP Implemenation, Bloomington, 2020 ***
 *** AERMET - VERSION 16216 *** *** (Existing Plus Project - Existing No Project) > 100 trucks/day ***

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0000598	0	0.34590E-06	464002.1	3769231.0	321.2	3.50	5.12	3.26	YES	
L0000599	0	0.34590E-06	464013.1	3769231.0	321.2	3.50	5.12	3.26	YES	
L0000600	0	0.34590E-06	464024.1	3769231.0	321.1	3.50	5.12	3.26	YES	
L0000601	0	0.34590E-06	464035.1	3769230.9	321.1	3.50	5.12	3.26	YES	
L0000602	0	0.34590E-06	464046.1	3769230.9	321.0	3.50	5.12	3.26	YES	
L0000603	0	0.34590E-06	464057.1	3769230.9	321.0	3.50	5.12	3.26	YES	
L0000604	0	0.34590E-06	464068.1	3769230.8	320.9	3.50	5.12	3.26	YES	
L0000605	0	0.34590E-06	464079.1	3769230.8	320.9	3.50	5.12	3.26	YES	
L0000606	0	0.34590E-06	464090.1	3769230.8	320.9	3.50	5.12	3.26	YES	
L0000607	0	0.34590E-06	464101.1	3769230.8	320.8	3.50	5.12	3.26	YES	
L0000608	0	0.34590E-06	464112.1	3769230.7	320.8	3.50	5.12	3.26	YES	
L0000609	0	0.34590E-06	464123.1	3769230.7	320.7	3.50	5.12	3.26	YES	
L0000610	0	0.34590E-06	464134.1	3769230.7	320.7	3.50	5.12	3.26	YES	
L0000611	0	0.34590E-06	464145.1	3769230.6	320.7	3.50	5.12	3.26	YES	
L0000612	0	0.34590E-06	464156.1	3769230.6	320.6	3.50	5.12	3.26	YES	
L0000613	0	0.34590E-06	464167.1	3769230.6	320.6	3.50	5.12	3.26	YES	
L0000614	0	0.34590E-06	464178.1	3769230.5	320.6	3.50	5.12	3.26	YES	
L0000615	0	0.34590E-06	464189.1	3769230.5	320.6	3.50	5.12	3.26	YES	
L0000616	0	0.34590E-06	464200.1	3769230.5	320.6	3.50	5.12	3.26	YES	
L0000617	0	0.34590E-06	464211.1	3769230.4	320.5	3.50	5.12	3.26	YES	

Model Output - Bloomington

CWP Implementation, 2020 Vehicle Emission Factors

L0000618	0	0.34590E-06	464222.1	3769230.4	320.4	3.50	5.12	3.26	YES
L0000619	0	0.77330E-06	464431.9	3769233.9	319.8	3.50	6.28	3.26	YES
L0000620	0	0.77330E-06	464445.4	3769233.6	319.8	3.50	6.28	3.26	YES
L0000621	0	0.77330E-06	464458.9	3769233.4	319.7	3.50	6.28	3.26	YES
L0000622	0	0.77330E-06	464472.3	3769233.1	319.6	3.50	6.28	3.26	YES
L0000623	0	0.77330E-06	464485.8	3769232.9	319.5	3.50	6.28	3.26	YES
L0000624	0	0.77330E-06	464499.3	3769232.6	319.4	3.50	6.28	3.26	YES
L0000625	0	0.77330E-06	464512.8	3769232.4	319.3	3.50	6.28	3.26	YES
L0000626	0	0.77330E-06	464526.3	3769232.2	319.2	3.50	6.28	3.26	YES
L0000627	0	0.77330E-06	464539.8	3769231.9	319.0	3.50	6.28	3.26	YES
L0000628	0	0.77330E-06	464553.3	3769231.7	318.9	3.50	6.28	3.26	YES
L0000629	0	0.77330E-06	464566.8	3769231.4	318.7	3.50	6.28	3.26	YES
L0000630	0	0.77330E-06	464580.3	3769231.2	318.6	3.50	6.28	3.26	YES
L0000631	0	0.77330E-06	464593.8	3769230.9	318.5	3.50	6.28	3.26	YES
L0000632	0	0.77330E-06	464607.3	3769230.7	318.3	3.50	6.28	3.26	YES
L0000633	0	0.77330E-06	464620.8	3769230.5	318.2	3.50	6.28	3.26	YES
L0000634	0	0.40750E-06	464626.2	3769221.8	318.1	3.50	3.49	3.26	YES
L0000635	0	0.40750E-06	464626.2	3769214.3	318.0	3.50	3.49	3.26	YES
L0000636	0	0.40750E-06	464626.1	3769206.8	317.8	3.50	3.49	3.26	YES
L0000637	0	0.40750E-06	464626.1	3769199.3	317.7	3.50	3.49	3.26	YES

*** AERMOD - VERSION 19191 ***

*** AERMET - VERSION 16216 ***

*** CWP Implemenation, Bloomington, 2020

*** (Existing Plus Project - Existing No Project) > 100 trucks/day

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0000638	0	0.40750E-06	464626.0	3769191.8	317.6	3.50	3.49	3.26	YES	
L0000639	0	0.40750E-06	464626.0	3769184.3	317.5	3.50	3.49	3.26	YES	
L0000640	0	0.40750E-06	464625.9	3769176.9	317.4	3.50	3.49	3.26	YES	
L0000641	0	0.40750E-06	464625.9	3769169.4	317.4	3.50	3.49	3.26	YES	
L0000642	0	0.40750E-06	464625.8	3769161.9	317.3	3.50	3.49	3.26	YES	
L0000643	0	0.40750E-06	464625.8	3769154.4	317.2	3.50	3.49	3.26	YES	
L0000644	0	0.40750E-06	464625.8	3769146.9	317.1	3.50	3.49	3.26	YES	
L0000645	0	0.40750E-06	464625.7	3769139.4	317.0	3.50	3.49	3.26	YES	
L0000646	0	0.40750E-06	464625.7	3769131.9	316.9	3.50	3.49	3.26	YES	
L0000647	0	0.40750E-06	464625.6	3769124.4	316.7	3.50	3.49	3.26	YES	
L0000648	0	0.40750E-06	464625.6	3769116.9	316.6	3.50	3.49	3.26	YES	
L0000649	0	0.40750E-06	464625.5	3769109.4	316.5	3.50	3.49	3.26	YES	
L0000650	0	0.40750E-06	464625.5	3769101.9	316.4	3.50	3.49	3.26	YES	
L0000651	0	0.40750E-06	464625.5	3769094.4	316.3	3.50	3.49	3.26	YES	
L0000652	0	0.40750E-06	464625.4	3769086.9	316.2	3.50	3.49	3.26	YES	
L0000653	0	0.40750E-06	464625.4	3769079.4	316.1	3.50	3.49	3.26	YES	
L0000654	0	0.40750E-06	464625.3	3769071.9	315.9	3.50	3.49	3.26	YES	
L0000655	0	0.40750E-06	464625.3	3769064.4	315.8	3.50	3.49	3.26	YES	

Model Output - Bloomington

CWP Implementation, 2020 Vehicle Emission Factors

L0000656	0	0.40750E-06	464625.2	3769056.9	315.7	3.50	3.49	3.26	YES
L0000657	0	0.40750E-06	464625.2	3769049.4	315.6	3.50	3.49	3.26	YES
L0000658	0	0.40750E-06	464625.1	3769041.9	315.5	3.50	3.49	3.26	YES
L0000659	0	0.40750E-06	464625.1	3769034.4	315.4	3.50	3.49	3.26	YES
L0000660	0	0.40750E-06	464625.1	3769026.9	315.3	3.50	3.49	3.26	YES
L0000661	0	0.40750E-06	464624.7	3769019.4	315.2	3.50	3.49	3.26	YES
L0000662	0	0.40750E-06	464622.8	3769012.1	315.1	3.50	3.49	3.26	YES
L0000663	0	0.40750E-06	464621.0	3769004.8	314.9	3.50	3.49	3.26	YES
L0000664	0	0.40750E-06	464619.2	3768997.6	314.9	3.50	3.49	3.26	YES
L0000665	0	0.40750E-06	464619.1	3768990.1	314.8	3.43	3.49	3.26	YES
L0000666	0	0.40750E-06	464619.1	3768982.6	314.7	3.36	3.49	3.26	YES
L0000667	0	0.40750E-06	464619.1	3768975.1	314.6	3.29	3.49	3.26	YES
L0000668	0	0.40750E-06	464619.1	3768967.6	314.5	3.22	3.49	3.26	YES
L0000669	0	0.40750E-06	464619.2	3768960.1	314.4	3.15	3.49	3.26	YES
L0000670	0	0.40750E-06	464619.2	3768952.6	314.3	3.07	3.49	3.26	YES
L0000671	0	0.40750E-06	464619.2	3768945.1	314.2	3.00	3.49	3.26	YES
L0000672	0	0.40750E-06	464619.2	3768937.6	314.1	2.93	3.49	3.26	YES
L0000673	0	0.40750E-06	464619.3	3768930.1	313.9	2.86	3.49	3.26	YES
L0000674	0	0.40750E-06	464619.3	3768922.6	313.8	2.79	3.49	3.26	YES
L0000675	0	0.40750E-06	464619.3	3768915.1	313.8	2.72	3.49	3.26	YES
L0000676	0	0.40750E-06	464619.3	3768907.6	313.7	2.64	3.49	3.26	YES
L0000677	0	0.40750E-06	464619.4	3768900.1	313.6	2.57	3.49	3.26	YES

*** AERMOD - VERSION 19191 *** CWP Implemenation, Bloomington, 2020

*** AERMET - VERSION 16216 *** (Existing Plus Project - Existing No Project) > 100 trucks/day

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0000678	0	0.40750E-06	464619.4	3768892.6	313.5	2.50	3.49	3.26	YES	
L0000679	0	0.40750E-06	464619.4	3768885.1	313.4	2.43	3.49	3.26	YES	
L0000680	0	0.40750E-06	464619.4	3768877.6	313.3	2.36	3.49	3.26	YES	
L0000681	0	0.40750E-06	464619.5	3768870.1	313.2	2.28	3.49	3.26	YES	
L0000682	0	0.40750E-06	464619.5	3768862.6	313.1	2.21	3.49	3.26	YES	
L0000683	0	0.40750E-06	464619.5	3768855.1	313.0	2.14	3.49	3.26	YES	
L0000684	0	0.40750E-06	464619.5	3768847.6	312.9	2.07	3.49	3.26	YES	
L0000685	0	0.40750E-06	464619.6	3768840.1	312.8	2.00	3.49	3.26	YES	
L0000686	0	0.40750E-06	464619.6	3768832.6	312.7	1.92	3.49	3.26	YES	
L0000687	0	0.40750E-06	464619.6	3768825.1	312.6	1.85	3.49	3.26	YES	
L0000688	0	0.40750E-06	464619.6	3768817.6	312.5	1.78	3.49	3.26	YES	
L0000689	0	0.40750E-06	464619.7	3768810.1	312.4	1.71	3.49	3.26	YES	
L0000690	0	0.40750E-06	464619.7	3768802.6	312.3	1.64	3.49	3.26	YES	
L0000691	0	0.40750E-06	464619.7	3768795.1	312.2	1.56	3.49	3.26	YES	
L0000692	0	0.40750E-06	464619.7	3768787.6	312.2	1.49	3.49	3.26	YES	
L0000693	0	0.40750E-06	464619.8	3768780.1	312.1	1.42	3.49	3.26	YES	

Model Output - Bloomington

CWP Implementation, 2020 Vehicle Emission Factors

L0000694	0	0.40750E-06	464619.8	3768772.6	312.0	1.35	3.49	3.26	YES
L0000695	0	0.40750E-06	464619.8	3768765.1	311.9	1.28	3.49	3.26	YES
L0000696	0	0.40750E-06	464619.8	3768757.6	311.8	1.21	3.49	3.26	YES
L0000697	0	0.40750E-06	464619.8	3768750.1	311.7	1.13	3.49	3.26	YES
L0000698	0	0.40750E-06	464619.9	3768742.6	311.6	1.06	3.49	3.26	YES
L0000699	0	0.40750E-06	464619.9	3768735.1	311.5	0.99	3.49	3.26	YES
L0000700	0	0.40750E-06	464619.9	3768727.6	311.4	0.92	3.49	3.26	YES
L0000701	0	0.40750E-06	464619.9	3768720.1	311.3	0.85	3.49	3.26	YES
L0000702	0	0.40750E-06	464620.0	3768712.6	311.2	0.77	3.49	3.26	YES
L0000703	0	0.40750E-06	464620.0	3768705.1	311.1	0.70	3.49	3.26	YES
L0000704	0	0.40750E-06	464620.0	3768697.6	310.9	0.63	3.49	3.26	YES
L0000705	0	0.40750E-06	464620.0	3768690.1	310.8	0.56	3.49	3.26	YES
L0000706	0	0.40750E-06	464620.1	3768682.6	310.7	0.49	3.49	3.26	YES
L0000707	0	0.40750E-06	464620.1	3768675.1	310.6	0.41	3.49	3.26	YES
L0000708	0	0.40750E-06	464620.1	3768667.6	310.5	0.34	3.49	3.26	YES
L0000709	0	0.40750E-06	464620.1	3768660.1	310.4	0.27	3.49	3.26	YES
L0000710	0	0.40750E-06	464620.2	3768652.6	310.3	0.20	3.49	3.26	YES
L0000711	0	0.40750E-06	464620.2	3768645.1	310.2	0.13	3.49	3.26	YES
L0000712	0	0.40750E-06	464620.2	3768637.6	310.0	0.06	3.49	3.26	YES
L0000713	0	0.40750E-06	464620.4	3768630.1	309.9	0.00	3.49	3.26	YES
L0000714	0	0.40750E-06	464621.2	3768622.6	309.8	0.00	3.49	3.26	YES
L0000715	0	0.40750E-06	464621.9	3768615.2	309.7	0.00	3.49	3.26	YES
L0000716	0	0.40750E-06	464622.7	3768607.7	309.6	0.00	3.49	3.26	YES
L0000717	0	0.40750E-06	464623.5	3768600.3	309.5	0.00	3.49	3.26	YES

*** AERMOD - VERSION 19191 *** *** CWP Implemenation, Bloomington, 2020 ***
 *** AERMET - VERSION 16216 *** *** (Existing Plus Project - Existing No Project) > 100 trucks/day ***

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0000718	0	0.40750E-06	464624.2	3768592.8	309.4	0.00	3.49	3.26	YES	
L0000719	0	0.40750E-06	464625.0	3768585.3	309.3	0.00	3.49	3.26	YES	
L0000720	0	0.40750E-06	464625.0	3768577.8	309.2	0.00	3.49	3.26	YES	
L0000721	0	0.40750E-06	464625.0	3768570.3	309.0	0.00	3.49	3.26	YES	
L0000722	0	0.40750E-06	464625.0	3768562.8	308.9	0.00	3.49	3.26	YES	
L0000723	0	0.40750E-06	464625.0	3768555.3	308.8	0.00	3.49	3.26	YES	
L0000724	0	0.40750E-06	464625.0	3768547.8	308.7	0.00	3.49	3.26	YES	
L0000725	0	0.40750E-06	464625.0	3768540.3	308.6	0.00	3.49	3.26	YES	
L0000726	0	0.40750E-06	464625.0	3768532.8	308.5	0.00	3.49	3.26	YES	
L0000727	0	0.40750E-06	464625.0	3768525.3	308.3	0.00	3.49	3.26	YES	
L0000728	0	0.40750E-06	464625.0	3768517.8	308.2	0.00	3.49	3.26	YES	
L0000729	0	0.40750E-06	464625.0	3768510.3	308.1	0.00	3.49	3.26	YES	
L0000730	0	0.40750E-06	464625.0	3768502.8	308.0	0.00	3.49	3.26	YES	
L0000731	0	0.40750E-06	464625.0	3768495.3	307.9	0.00	3.49	3.26	YES	

Model Output - Bloomington

CWP Implementation, 2020 Vehicle Emission Factors

L0000732	0	0.40750E-06	464625.0	3768487.8	307.7	0.00	3.49	3.26	YES
L0000733	0	0.40750E-06	464625.0	3768480.3	307.6	0.00	3.49	3.26	YES
L0000734	0	0.40750E-06	464625.0	3768472.8	307.5	0.00	3.49	3.26	YES
L0000735	0	0.40750E-06	464625.0	3768465.3	307.4	0.00	3.49	3.26	YES
L0000736	0	0.40750E-06	464625.0	3768457.8	307.3	0.00	3.49	3.26	YES
L0000737	0	0.40750E-06	464625.0	3768450.3	307.2	0.00	3.49	3.26	YES
L0000738	0	0.40750E-06	464625.0	3768442.8	307.1	0.00	3.49	3.26	YES
L0000739	0	0.40750E-06	464625.0	3768435.3	307.1	0.00	3.49	3.26	YES
L0000740	0	0.40750E-06	464625.0	3768427.8	307.0	0.00	3.49	3.26	YES
L0000741	0	0.55930E-06	464627.2	3768417.2	306.9	3.50	3.49	3.26	YES
L0000742	0	0.55930E-06	464627.2	3768409.7	306.8	3.50	3.49	3.26	YES
L0000743	0	0.55930E-06	464627.1	3768402.2	306.8	3.50	3.49	3.26	YES
L0000744	0	0.55930E-06	464627.1	3768394.7	306.7	3.50	3.49	3.26	YES
L0000745	0	0.55930E-06	464627.1	3768387.2	306.6	3.50	3.49	3.26	YES
L0000746	0	0.55930E-06	464627.1	3768379.7	306.4	3.50	3.49	3.26	YES
L0000747	0	0.55930E-06	464627.0	3768372.2	306.4	3.50	3.49	3.26	YES
L0000748	0	0.55930E-06	464627.0	3768364.7	306.3	3.50	3.49	3.26	YES
L0000749	0	0.55930E-06	464627.0	3768357.2	306.2	3.50	3.49	3.26	YES
L0000750	0	0.55930E-06	464626.9	3768349.7	306.1	3.50	3.49	3.26	YES
L0000751	0	0.55930E-06	464626.9	3768342.2	306.0	3.50	3.49	3.26	YES
L0000752	0	0.55930E-06	464626.9	3768334.7	305.9	3.50	3.49	3.26	YES
L0000753	0	0.55930E-06	464626.9	3768327.2	305.8	3.50	3.49	3.26	YES
L0000754	0	0.55930E-06	464626.8	3768319.7	305.7	3.50	3.49	3.26	YES
L0000755	0	0.55930E-06	464626.8	3768312.2	305.5	3.50	3.49	3.26	YES
L0000756	0	0.55930E-06	464626.8	3768304.7	305.4	3.50	3.49	3.26	YES
L0000757	0	0.55930E-06	464626.7	3768297.2	305.3	3.50	3.49	3.26	YES

*** AERMOD - VERSION 19191 *** CWP Implemenation, Bloomington, 2020

*** AERMET - VERSION 16216 *** (Existing Plus Project - Existing No Project) > 100 trucks/day

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0000758	0	0.55930E-06	464626.7	3768289.7	305.2	3.50	3.49	3.26	YES	
L0000759	0	0.55930E-06	464626.7	3768282.2	305.1	3.50	3.49	3.26	YES	
L0000760	0	0.55930E-06	464626.7	3768274.7	305.0	3.50	3.49	3.26	YES	
L0000761	0	0.55930E-06	464626.6	3768267.2	304.9	3.50	3.49	3.26	YES	
L0000762	0	0.55930E-06	464626.6	3768259.7	304.9	3.50	3.49	3.26	YES	
L0000763	0	0.55930E-06	464626.6	3768252.2	304.8	3.50	3.49	3.26	YES	
L0000764	0	0.55930E-06	464626.5	3768244.7	304.7	3.50	3.49	3.26	YES	
L0000765	0	0.55930E-06	464626.5	3768237.2	304.6	3.50	3.49	3.26	YES	
L0000766	0	0.55930E-06	464626.5	3768229.7	304.6	3.50	3.49	3.26	YES	
L0000767	0	0.55930E-06	464626.5	3768222.2	304.5	3.50	3.49	3.26	YES	
L0000768	0	0.55930E-06	464626.4	3768214.7	304.4	3.50	3.49	3.26	YES	
L0000769	0	0.55930E-06	464626.4	3768207.2	304.3	3.50	3.49	3.26	YES	

Model Output - Bloomington

CWP Implementation, 2020 Vehicle Emission Factors

L0000770	0	0.55930E-06	464626.4	3768199.7	304.2	3.50	3.49	3.26	YES
L0000771	0	0.55930E-06	464626.3	3768192.2	304.2	3.50	3.49	3.26	YES
L0000772	0	0.55930E-06	464626.3	3768184.7	304.1	3.50	3.49	3.26	YES
L0000773	0	0.55930E-06	464626.3	3768177.2	304.0	3.50	3.49	3.26	YES
L0000774	0	0.55930E-06	464626.3	3768169.7	303.9	3.50	3.49	3.26	YES
L0000775	0	0.55930E-06	464626.2	3768162.2	303.8	3.50	3.49	3.26	YES
L0000776	0	0.55930E-06	464626.2	3768154.7	303.7	3.50	3.49	3.26	YES
L0000777	0	0.55930E-06	464626.2	3768147.2	303.7	3.50	3.49	3.26	YES
L0000778	0	0.55930E-06	464626.1	3768139.7	303.6	3.50	3.49	3.26	YES
L0000779	0	0.55930E-06	464626.1	3768132.2	303.5	3.50	3.49	3.26	YES
L0000780	0	0.55930E-06	464626.1	3768124.7	303.4	3.50	3.49	3.26	YES
L0000781	0	0.55930E-06	464626.1	3768117.2	303.3	3.50	3.49	3.26	YES
L0000782	0	0.55930E-06	464626.0	3768109.7	303.3	3.50	3.49	3.26	YES
L0000783	0	0.55930E-06	464626.0	3768102.2	303.2	3.50	3.49	3.26	YES
L0000784	0	0.55930E-06	464626.0	3768094.7	303.1	3.50	3.49	3.26	YES
L0000785	0	0.55930E-06	464625.9	3768087.2	303.0	3.50	3.49	3.26	YES
L0000786	0	0.55930E-06	464625.9	3768079.7	302.9	3.50	3.49	3.26	YES
L0000787	0	0.55930E-06	464625.9	3768072.2	302.9	3.50	3.49	3.26	YES
L0000788	0	0.55930E-06	464625.9	3768064.7	302.8	3.50	3.49	3.26	YES
L0000789	0	0.55930E-06	464625.8	3768057.2	302.7	3.50	3.49	3.26	YES
L0000790	0	0.55930E-06	464625.8	3768049.7	302.6	3.50	3.49	3.26	YES
L0000791	0	0.55930E-06	464625.8	3768042.2	302.5	3.50	3.49	3.26	YES
L0000792	0	0.55930E-06	464625.7	3768034.7	302.4	3.50	3.49	3.26	YES
L0000793	0	0.55930E-06	464625.3	3768027.2	302.3	3.50	3.49	3.26	YES
L0000794	0	0.55930E-06	464624.2	3768019.8	302.2	3.50	3.49	3.26	YES
L0000795	0	0.55930E-06	464623.2	3768012.4	302.2	3.50	3.49	3.26	YES
L0000796	0	0.55930E-06	464622.1	3768005.0	302.1	3.50	3.49	3.26	YES
L0000797	0	0.55930E-06	464621.3	3767997.5	302.0	3.49	3.49	3.26	YES

*** AERMOD - VERSION 19191 *** *** CWP Implemenation, Bloomington, 2020 ***
 *** AERMET - VERSION 16216 *** *** (Existing Plus Project - Existing No Project) > 100 trucks/day ***

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0000798	0	0.55930E-06	464621.3	3767990.0	301.9	3.42	3.49	3.26	YES	
L0000799	0	0.55930E-06	464621.4	3767982.5	301.8	3.36	3.49	3.26	YES	
L0000800	0	0.55930E-06	464621.4	3767975.0	301.7	3.30	3.49	3.26	YES	
L0000801	0	0.55930E-06	464621.5	3767967.5	301.6	3.24	3.49	3.26	YES	
L0000802	0	0.55930E-06	464621.5	3767960.0	301.5	3.18	3.49	3.26	YES	
L0000803	0	0.55930E-06	464621.6	3767952.5	301.4	3.11	3.49	3.26	YES	
L0000804	0	0.55930E-06	464621.7	3767945.0	301.4	3.05	3.49	3.26	YES	
L0000805	0	0.55930E-06	464621.7	3767937.5	301.3	2.99	3.49	3.26	YES	
L0000806	0	0.55930E-06	464621.8	3767930.0	301.2	2.93	3.49	3.26	YES	
L0000807	0	0.55930E-06	464621.8	3767922.5	301.1	2.87	3.49	3.26	YES	

Model Output - Bloomington

CWP Implementation, 2020 Vehicle Emission Factors

L0000808	0	0.55930E-06	464621.9	3767915.0	300.9	2.80	3.49	3.26	YES
L0000809	0	0.55930E-06	464621.9	3767907.5	300.9	2.74	3.49	3.26	YES
L0000810	0	0.55930E-06	464622.0	3767900.0	300.8	2.68	3.49	3.26	YES
L0000811	0	0.55930E-06	464622.0	3767892.5	300.7	2.62	3.49	3.26	YES
L0000812	0	0.55930E-06	464622.1	3767885.0	300.5	2.56	3.49	3.26	YES
L0000813	0	0.55930E-06	464622.1	3767877.5	300.4	2.49	3.49	3.26	YES
L0000814	0	0.55930E-06	464622.2	3767870.0	300.3	2.43	3.49	3.26	YES
L0000815	0	0.55930E-06	464622.2	3767862.5	300.2	2.37	3.49	3.26	YES
L0000816	0	0.55930E-06	464622.3	3767855.0	300.1	2.31	3.49	3.26	YES
L0000817	0	0.55930E-06	464622.3	3767847.5	300.0	2.25	3.49	3.26	YES
L0000818	0	0.55930E-06	464622.4	3767840.0	299.8	2.18	3.49	3.26	YES
L0000819	0	0.55930E-06	464622.4	3767832.5	299.7	2.12	3.49	3.26	YES
L0000820	0	0.55930E-06	464622.5	3767825.0	299.6	2.06	3.49	3.26	YES
L0000821	0	0.55930E-06	464622.5	3767817.5	299.5	2.00	3.49	3.26	YES
L0000822	0	0.55930E-06	464622.6	3767810.0	299.4	1.94	3.49	3.26	YES
L0000823	0	0.55930E-06	464622.7	3767802.5	299.2	1.87	3.49	3.26	YES
L0000824	0	0.55930E-06	464622.7	3767795.0	299.2	1.81	3.49	3.26	YES
L0000825	0	0.55930E-06	464622.8	3767787.5	299.1	1.75	3.49	3.26	YES
L0000826	0	0.55930E-06	464622.8	3767780.0	298.9	1.69	3.49	3.26	YES
L0000827	0	0.55930E-06	464622.9	3767772.5	298.8	1.63	3.49	3.26	YES
L0000828	0	0.55930E-06	464622.9	3767765.0	298.7	1.56	3.49	3.26	YES
L0000829	0	0.55930E-06	464623.0	3767757.5	298.6	1.50	3.49	3.26	YES
L0000830	0	0.55930E-06	464623.0	3767750.0	298.5	1.44	3.49	3.26	YES
L0000831	0	0.55930E-06	464623.1	3767742.5	298.4	1.38	3.49	3.26	YES
L0000832	0	0.55930E-06	464623.1	3767735.0	298.3	1.31	3.49	3.26	YES
L0000833	0	0.55930E-06	464623.2	3767727.5	298.2	1.25	3.49	3.26	YES
L0000834	0	0.55930E-06	464623.2	3767720.0	298.0	1.19	3.49	3.26	YES
L0000835	0	0.55930E-06	464623.3	3767712.5	297.9	1.13	3.49	3.26	YES
L0000836	0	0.55930E-06	464623.3	3767705.0	297.8	1.07	3.49	3.26	YES
L0000837	0	0.55930E-06	464623.4	3767697.5	297.7	1.00	3.49	3.26	YES

*** AERMOD - VERSION 19191 *** *** CWP Implemenation, Bloomington, 2020

*** AERMET - VERSION 16216 *** *** (Existing Plus Project - Existing No Project) > 100 trucks/day

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0000838	0	0.55930E-06	464623.4	3767690.0	297.6	0.94	3.49	3.26	YES	
L0000839	0	0.55930E-06	464623.5	3767682.5	297.5	0.88	3.49	3.26	YES	
L0000840	0	0.55930E-06	464623.5	3767675.0	297.4	0.82	3.49	3.26	YES	
L0000841	0	0.55930E-06	464623.6	3767667.5	297.3	0.76	3.49	3.26	YES	
L0000842	0	0.55930E-06	464623.7	3767660.0	297.2	0.69	3.49	3.26	YES	
L0000843	0	0.55930E-06	464623.7	3767652.5	297.1	0.63	3.49	3.26	YES	
L0000844	0	0.55930E-06	464623.8	3767645.0	296.9	0.57	3.49	3.26	YES	
L0000845	0	0.55930E-06	464623.8	3767637.5	296.8	0.51	3.49	3.26	YES	

Model Output - Bloomington

CWP Implementation, 2020 Vehicle Emission Factors

L0000846	0	0.55930E-06	464623.9	3767630.0	296.7	0.45	3.49	3.26	YES
L0000847	0	0.55930E-06	464623.9	3767622.5	296.6	0.38	3.49	3.26	YES
L0000848	0	0.55930E-06	464624.0	3767615.0	296.5	0.32	3.49	3.26	YES
L0000849	0	0.55930E-06	464624.0	3767607.5	296.4	0.26	3.49	3.26	YES
L0000850	0	0.55930E-06	464624.1	3767600.0	296.3	0.20	3.49	3.26	YES
L0000851	0	0.55930E-06	464624.1	3767592.5	296.2	0.14	3.49	3.26	YES
L0000852	0	0.55930E-06	464624.2	3767585.0	296.2	0.07	3.49	3.26	YES
L0000853	0	0.55930E-06	464624.2	3767577.5	296.2	0.01	3.49	3.26	YES
L0000854	0	0.76450E-06	464621.3	3767569.3	296.1	3.50	3.49	3.26	YES
L0000855	0	0.76450E-06	464621.3	3767561.8	295.9	3.50	3.49	3.26	YES
L0000856	0	0.76450E-06	464621.3	3767554.3	295.8	3.50	3.49	3.26	YES
L0000857	0	0.76450E-06	464621.3	3767546.8	295.8	3.50	3.49	3.26	YES
L0000858	0	0.76450E-06	464621.3	3767539.3	295.7	3.50	3.49	3.26	YES
L0000859	0	0.76450E-06	464621.3	3767531.8	295.6	3.50	3.49	3.26	YES
L0000860	0	0.76450E-06	464621.3	3767524.3	295.5	3.50	3.49	3.26	YES
L0000861	0	0.76450E-06	464621.3	3767516.8	295.4	3.50	3.49	3.26	YES
L0000862	0	0.76450E-06	464621.3	3767509.3	295.3	3.50	3.49	3.26	YES
L0000863	0	0.76450E-06	464621.3	3767501.8	295.2	3.50	3.49	3.26	YES
L0000864	0	0.76450E-06	464621.3	3767494.3	295.0	3.50	3.49	3.26	YES
L0000865	0	0.76450E-06	464621.3	3767486.8	294.9	3.50	3.49	3.26	YES
L0000866	0	0.76450E-06	464621.3	3767479.3	294.8	3.50	3.49	3.26	YES
L0000867	0	0.76450E-06	464621.3	3767471.8	294.7	3.50	3.49	3.26	YES
L0000868	0	0.76450E-06	464621.3	3767464.3	294.6	3.50	3.49	3.26	YES
L0000869	0	0.76450E-06	464621.3	3767456.8	294.4	3.50	3.49	3.26	YES
L0000870	0	0.76450E-06	464621.3	3767449.3	294.3	3.50	3.49	3.26	YES
L0000871	0	0.76450E-06	464621.3	3767441.8	294.2	3.50	3.49	3.26	YES
L0000872	0	0.76450E-06	464621.3	3767434.3	294.1	3.50	3.49	3.26	YES
L0000873	0	0.76450E-06	464621.3	3767426.8	293.9	3.50	3.49	3.26	YES
L0000874	0	0.76450E-06	464621.3	3767419.3	293.8	3.50	3.49	3.26	YES
L0000875	0	0.76450E-06	464621.3	3767411.8	293.7	3.50	3.49	3.26	YES
L0000876	0	0.76450E-06	464621.3	3767404.3	293.6	3.50	3.49	3.26	YES
L0000877	0	0.76450E-06	464621.3	3767396.8	293.5	3.50	3.49	3.26	YES

*** AERMOD - VERSION 19191 *** *** CWP Implemenation, Bloomington, 2020 ***
 *** AERMET - VERSION 16216 *** *** (Existing Plus Project - Existing No Project) > 100 trucks/day ***

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.	INIT.	URBAN	EMISSION
ID	PART.	(GRAMS/SEC)	X	Y	ELEV.	HEIGHT	SY	SZ	SOURCE	SCALAR
	CATS.		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)		VARY
										BY
L0000878	0	0.76450E-06	464621.3	3767389.3	293.4	3.50	3.49	3.26	YES	
L0000879	0	0.76450E-06	464621.3	3767381.8	293.3	3.50	3.49	3.26	YES	
L0000880	0	0.76450E-06	464621.3	3767374.3	293.2	3.50	3.49	3.26	YES	
L0000881	0	0.76450E-06	464621.3	3767366.8	293.2	3.50	3.49	3.26	YES	
L0000882	0	0.76450E-06	464621.3	3767359.3	293.1	3.50	3.49	3.26	YES	
L0000883	0	0.76450E-06	464621.3	3767351.8	293.0	3.50	3.49	3.26	YES	

Model Output - Bloomington

CWP Implementation, 2020 Vehicle Emission Factors

L0000884	0	0.76450E-06	464621.3	3767344.3	292.9	3.50	3.49	3.26	YES
L0000885	0	0.76450E-06	464621.3	3767336.8	292.8	3.50	3.49	3.26	YES
L0000886	0	0.76450E-06	464621.3	3767329.3	292.7	3.50	3.49	3.26	YES
L0000887	0	0.76450E-06	464621.3	3767321.8	292.6	3.50	3.49	3.26	YES
L0000888	0	0.76450E-06	464621.3	3767314.3	292.5	3.50	3.49	3.26	YES
L0000889	0	0.76450E-06	464621.3	3767306.8	292.4	3.50	3.49	3.26	YES
L0000890	0	0.76450E-06	464621.3	3767299.3	292.3	3.50	3.49	3.26	YES
L0000891	0	0.76450E-06	464621.3	3767291.8	292.2	3.50	3.49	3.26	YES
L0000892	0	0.76450E-06	464621.3	3767284.3	292.1	3.50	3.49	3.26	YES
L0000893	0	0.76450E-06	464621.3	3767276.8	291.9	3.50	3.49	3.26	YES
L0000894	0	0.76450E-06	464621.3	3767269.3	291.8	3.50	3.49	3.26	YES
L0000895	0	0.76450E-06	464621.3	3767261.8	291.7	3.50	3.49	3.26	YES
L0000896	0	0.76450E-06	464621.3	3767254.3	291.7	3.50	3.49	3.26	YES
L0000897	0	0.76450E-06	464621.3	3767246.8	291.7	3.50	3.49	3.26	YES
L0000898	0	0.76450E-06	464621.3	3767239.3	291.8	3.50	3.49	3.26	YES
L0000899	0	0.76450E-06	464621.2	3767231.8	292.0	3.50	3.49	3.26	YES
L0000900	0	0.76450E-06	464621.2	3767224.3	292.3	3.50	3.49	3.26	YES
L0000901	0	0.76450E-06	464621.1	3767216.8	292.6	3.50	3.49	3.26	YES
L0000902	0	0.76450E-06	464621.1	3767209.3	293.0	3.50	3.49	3.26	YES
L0000903	0	0.76450E-06	464621.0	3767201.8	293.4	3.50	3.49	3.26	YES
L0000904	0	0.76450E-06	464621.0	3767194.3	293.7	3.50	3.49	3.26	YES
L0000905	0	0.76450E-06	464620.9	3767186.8	293.9	3.50	3.49	3.26	YES
L0000906	0	0.76450E-06	464620.9	3767179.3	294.1	3.50	3.49	3.26	YES
L0000907	0	0.76450E-06	464620.8	3767171.8	294.2	3.50	3.49	3.26	YES
L0000908	0	0.76450E-06	464620.8	3767164.3	294.3	3.50	3.49	3.26	YES
L0000909	0	0.76450E-06	464620.7	3767156.8	294.4	3.50	3.49	3.26	YES
L0000910	0	0.76450E-06	464620.7	3767149.3	294.4	3.50	3.49	3.26	YES
L0000911	0	0.76450E-06	464620.6	3767141.8	294.4	3.50	3.49	3.26	YES
L0000912	0	0.76450E-06	464620.6	3767134.3	294.5	3.50	3.49	3.26	YES
L0000913	0	0.76450E-06	464620.5	3767126.8	294.4	3.50	3.49	3.26	YES
L0000914	0	0.76450E-06	464620.5	3767119.3	294.4	3.50	3.49	3.26	YES
L0000915	0	0.76450E-06	464620.4	3767111.8	294.4	3.50	3.49	3.26	YES
L0000916	0	0.76450E-06	464620.4	3767104.3	294.4	3.50	3.49	3.26	YES
L0000917	0	0.76450E-06	464620.3	3767096.8	294.4	3.50	3.49	3.26	YES

*** AERMOD - VERSION 19191 *** *** CWP Implementation, Bloomington, 2020

*** AERMET - VERSION 16216 *** *** (Existing Plus Project - Existing No Project) > 100 trucks/day

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0000918	0	0.76450E-06	464620.3	3767089.3	294.5	3.50	3.49	3.26	YES	
L0000919	0	0.76450E-06	464620.2	3767081.8	294.5	3.50	3.49	3.26	YES	
L0000920	0	0.76450E-06	464620.2	3767074.3	294.6	3.50	3.49	3.26	YES	
L0000921	0	0.76450E-06	464620.1	3767066.8	294.6	3.50	3.49	3.26	YES	

Model Output - Bloomington

CWP Implementation, 2020 Vehicle Emission Factors

L0000922	0	0.76450E-06	464620.1	3767059.3	294.6	3.50	3.49	3.26	YES
L0000923	0	0.76450E-06	464620.0	3767051.8	294.5	3.50	3.49	3.26	YES
L0000924	0	0.76450E-06	464620.0	3767044.3	294.4	3.50	3.49	3.26	YES
L0000925	0	0.76450E-06	464619.9	3767036.8	294.3	3.50	3.49	3.26	YES
L0000926	0	0.76450E-06	464619.9	3767029.3	294.2	3.50	3.49	3.26	YES
L0000927	0	0.76450E-06	464619.8	3767021.8	294.1	3.50	3.49	3.26	YES
L0000928	0	0.76450E-06	464619.8	3767014.3	293.9	3.49	3.49	3.26	YES
L0000929	0	0.76450E-06	464619.8	3767006.8	293.8	3.40	3.49	3.26	YES
L0000930	0	0.76450E-06	464619.9	3766999.3	293.6	3.30	3.49	3.26	YES
L0000931	0	0.76450E-06	464619.9	3766991.8	293.5	3.20	3.49	3.26	YES
L0000932	0	0.76450E-06	464620.0	3766984.3	293.4	3.10	3.49	3.26	YES
L0000933	0	0.76450E-06	464620.0	3766976.8	293.3	3.00	3.49	3.26	YES
L0000934	0	0.76450E-06	464620.0	3766969.3	293.2	2.90	3.49	3.26	YES
L0000935	0	0.76450E-06	464620.1	3766961.8	293.1	2.80	3.49	3.26	YES
L0000936	0	0.76450E-06	464620.1	3766954.3	293.0	2.70	3.49	3.26	YES
L0000937	0	0.76450E-06	464620.2	3766946.8	292.9	2.60	3.49	3.26	YES
L0000938	0	0.76450E-06	464620.2	3766939.3	292.8	2.50	3.49	3.26	YES
L0000939	0	0.76450E-06	464620.3	3766931.8	292.7	2.40	3.49	3.26	YES
L0000940	0	0.76450E-06	464620.3	3766924.3	292.6	2.30	3.49	3.26	YES
L0000941	0	0.76450E-06	464620.3	3766916.8	292.4	2.20	3.49	3.26	YES
L0000942	0	0.76450E-06	464620.4	3766909.3	292.3	2.10	3.49	3.26	YES
L0000943	0	0.76450E-06	464620.4	3766901.8	292.2	2.00	3.49	3.26	YES
L0000944	0	0.76450E-06	464620.5	3766894.3	292.1	1.91	3.49	3.26	YES
L0000945	0	0.76450E-06	464620.5	3766886.8	292.0	1.81	3.49	3.26	YES
L0000946	0	0.76450E-06	464620.5	3766879.3	291.9	1.71	3.49	3.26	YES
L0000947	0	0.76450E-06	464620.6	3766871.8	291.9	1.61	3.49	3.26	YES
L0000948	0	0.76450E-06	464620.6	3766864.3	291.8	1.51	3.49	3.26	YES
L0000949	0	0.76450E-06	464620.7	3766856.8	291.8	1.41	3.49	3.26	YES
L0000950	0	0.76450E-06	464620.7	3766849.3	291.7	1.31	3.49	3.26	YES
L0000951	0	0.76450E-06	464620.8	3766841.8	291.7	1.21	3.49	3.26	YES
L0000952	0	0.76450E-06	464620.8	3766834.3	291.6	1.11	3.49	3.26	YES
L0000953	0	0.76450E-06	464620.8	3766826.8	291.6	1.01	3.49	3.26	YES
L0000954	0	0.76450E-06	464620.9	3766819.3	291.5	0.91	3.49	3.26	YES
L0000955	0	0.76450E-06	464620.9	3766811.8	291.4	0.81	3.49	3.26	YES
L0000956	0	0.76450E-06	464621.0	3766804.3	291.3	0.71	3.49	3.26	YES
L0000957	0	0.76450E-06	464621.0	3766796.8	291.2	0.61	3.49	3.26	YES
L0000958	0	0.76450E-06	464621.1	3766789.3	291.2	0.52	3.49	3.26	YES
L0000959	0	0.76450E-06	464621.1	3766781.8	291.2	0.42	3.49	3.26	YES
L0000960	0	0.76450E-06	464621.1	3766774.3	291.2	0.32	3.49	3.26	YES
L0000961	0	0.76450E-06	464621.2	3766766.8	291.2	0.22	3.49	3.26	YES
L0000962	0	0.76450E-06	464621.2	3766759.3	291.3	0.12	3.49	3.26	YES
L0000963	0	0.76450E-06	464621.3	3766751.8	291.4	0.02	3.49	3.26	YES

Model Output - Bloomington

CWP Implementation, 2020 Vehicle Emission Factors

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*** AERMOD - VERSION 19191 ***   *** CWP Implemenation, Bloomington, 2020   ***   05/27/20
*** AERMET - VERSION 16216 ***   *** (Existing Plus Project - Existing No Project) > 100 trucks/day ***   09:43:28
*** MODELOPTs:      RegDFAULT CONC ELEV URBAN ADJ_U*                                     PAGE 21
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*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
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ALL	All Volume Sources L0000001 thru L0000963
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*** AERMOD - VERSION 19191 ***   *** CWP Implemenation, Bloomington, 2020   ***   05/27/20
*** AERMET - VERSION 16216 ***   *** (Existing Plus Project - Existing No Project) > 100 trucks/day ***   09:43:28
*** MODELOPTs:      RegDFAULT CONC ELEV URBAN ADJ_U*                                     PAGE 26
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*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
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	2035210.	
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Model Output - Bloomington
CWP Implementation, 2020 Vehicle Emission Factors

*** AERMOD - VERSION 19191 *** *** CWP Implemenation, Bloomington, 2020
*** AERMET - VERSION 16216 *** *** (Existing Plus Project - Existing No Project) > 100 trucks/day
*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(461337.2, 3769855.2,	338.3,	338.3,	0.0);	(461393.4, 3769790.7,	337.2,	337.2,	0.0);
(461427.5, 3769777.1,	336.9,	336.9,	0.0);	(461477.5, 3769777.1,	337.0,	337.0,	0.0);
(461678.1, 3769799.8,	336.4,	336.4,	0.0);	(461728.1, 3769799.8,	336.4,	336.4,	0.0);
(461778.1, 3769799.8,	336.5,	336.5,	0.0);	(461828.1, 3769799.8,	336.7,	336.7,	0.0);
(461878.1, 3769799.8,	336.5,	336.5,	0.0);	(461928.1, 3769799.8,	336.3,	336.3,	0.0);
(461977.5, 3769804.8,	336.0,	336.0,	0.0);	(462027.5, 3769804.8,	336.1,	336.1,	0.0);
(462077.5, 3769804.8,	335.8,	335.8,	0.0);	(462127.5, 3769804.8,	336.1,	336.1,	0.0);
(462177.5, 3769804.8,	335.9,	335.9,	0.0);	(462227.5, 3769804.8,	335.8,	335.8,	0.0);
(462277.5, 3769804.8,	335.8,	335.8,	0.0);	(461384.6, 3769854.8,	338.1,	338.1,	0.0);
(461377.5, 3769827.1,	337.7,	337.7,	0.0);	(461427.5, 3769827.1,	337.5,	337.5,	0.0);
(461477.5, 3769827.1,	337.7,	337.7,	0.0);	(461627.5, 3769827.1,	336.6,	336.6,	0.0);
(461677.5, 3769827.1,	336.7,	336.7,	0.0);	(461727.5, 3769827.1,	336.7,	336.7,	0.0);
(461777.5, 3769827.1,	337.0,	337.0,	0.0);	(461827.5, 3769827.1,	336.9,	336.9,	0.0);
(461877.5, 3769827.1,	336.8,	336.8,	0.0);	(461927.5, 3769827.1,	336.7,	336.7,	0.0);
(461977.5, 3769827.1,	336.4,	336.4,	0.0);	(462027.5, 3769827.1,	336.4,	336.4,	0.0);
(462077.5, 3769827.1,	336.1,	336.1,	0.0);	(462127.5, 3769827.1,	336.4,	336.4,	0.0);
(462177.5, 3769827.1,	336.0,	336.0,	0.0);	(462227.5, 3769827.1,	335.9,	335.9,	0.0);
(462377.5, 3769827.1,	337.2,	337.2,	0.0);	(462427.5, 3769827.1,	336.8,	336.8,	0.0);
(462477.5, 3769827.1,	336.5,	336.5,	0.0);	(462727.5, 3769827.1,	336.4,	336.4,	0.0);
(462777.5, 3769827.1,	336.0,	336.0,	0.0);	(462820.2, 3769853.1,	336.2,	336.2,	0.0);
(462870.2, 3769853.1,	335.5,	335.5,	0.0);	(461387.7, 3769893.0,	338.7,	338.7,	0.0);
(461427.5, 3769877.1,	338.3,	338.3,	0.0);	(461477.5, 3769877.1,	338.1,	338.1,	0.0);
(461627.5, 3769877.1,	337.2,	337.2,	0.0);	(461677.5, 3769877.1,	337.2,	337.2,	0.0);
(461727.5, 3769877.1,	337.3,	337.3,	0.0);	(461777.5, 3769877.1,	337.4,	337.4,	0.0);
(461827.5, 3769877.1,	337.4,	337.4,	0.0);	(461977.7, 3769853.4,	336.8,	336.8,	0.0);
(462027.7, 3769853.4,	336.7,	336.7,	0.0);	(462077.7, 3769853.4,	336.7,	336.7,	0.0);
(462127.7, 3769853.4,	336.7,	336.7,	0.0);	(462177.7, 3769853.4,	336.2,	336.2,	0.0);
(462377.5, 3769877.1,	337.4,	337.4,	0.0);	(462427.5, 3769877.1,	337.4,	337.4,	0.0);
(462477.5, 3769877.1,	337.0,	337.0,	0.0);	(462727.5, 3769877.1,	336.9,	336.9,	0.0);
(462777.5, 3769877.1,	336.6,	336.6,	0.0);	(462827.5, 3769877.1,	336.4,	336.4,	0.0);
(462877.5, 3769877.1,	335.6,	335.6,	0.0);	(461377.5, 3769927.1,	339.3,	339.3,	0.0);
(461427.5, 3769927.1,	339.0,	339.0,	0.0);	(461477.5, 3769927.1,	338.8,	338.8,	0.0);
(461627.5, 3769927.1,	337.7,	337.7,	0.0);	(461677.5, 3769927.1,	337.8,	337.8,	0.0);
(461727.5, 3769927.1,	337.9,	337.9,	0.0);	(461777.5, 3769927.1,	338.1,	338.1,	0.0);
(461827.5, 3769927.1,	338.1,	338.1,	0.0);	(462127.5, 3769927.1,	337.4,	337.4,	0.0);
(462227.5, 3769862.1,	336.4,	336.4,	0.0);	(462377.5, 3769927.1,	338.5,	338.5,	0.0);
(462427.5, 3769927.1,	338.2,	338.2,	0.0);	(462477.5, 3769927.1,	337.8,	337.8,	0.0);
(462527.5, 3769927.1,	337.8,	337.8,	0.0);	(462727.5, 3769927.1,	337.6,	337.6,	0.0);
(462777.5, 3769927.1,	337.2,	337.2,	0.0);	(462827.5, 3769927.1,	337.0,	337.0,	0.0);
(462877.5, 3769927.1,	336.3,	336.3,	0.0);	(461377.5, 3769977.1,	340.1,	340.1,	0.0);
(461627.5, 3769977.1,	338.4,	338.4,	0.0);	(461677.5, 3769977.1,	338.7,	338.7,	0.0);
(461727.5, 3769977.1,	338.6,	338.6,	0.0);	(461777.5, 3769977.1,	338.8,	338.8,	0.0);

Model Output - Bloomington
CWP Implementation, 2020 Vehicle Emission Factors

```
( 461827.5, 3769977.1, 338.8, 338.8, 0.0); ( 462127.5, 3769977.1, 338.0, 338.0, 0.0);
( 462377.5, 3769977.1, 339.3, 339.3, 0.0); ( 462427.5, 3769977.1, 338.8, 338.8, 0.0);
( 462477.5, 3769977.1, 338.4, 338.4, 0.0); ( 462527.5, 3769977.1, 338.4, 338.4, 0.0);
*** AERMOD - VERSION 19191 *** *** CWP Implemenation, Bloomington, 2020 *** 05/27/20
*** AERMET - VERSION 16216 *** *** (Existing Plus Project - Existing No Project) > 100 trucks/day *** 09:43:28
*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U* *** PAGE 32

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

( 462727.5, 3769977.1, 338.1, 338.1, 0.0); ( 462777.5, 3769977.1, 337.9, 337.9, 0.0);
( 462827.5, 3769977.1, 337.6, 337.6, 0.0); ( 462877.5, 3769977.1, 337.0, 337.0, 0.0);
( 461627.5, 3770027.1, 339.5, 339.5, 0.0); ( 461677.5, 3770027.1, 339.8, 339.8, 0.0);
( 461727.5, 3770027.1, 339.6, 339.6, 0.0); ( 461777.5, 3770027.1, 339.8, 339.8, 0.0);
( 461827.5, 3770027.1, 339.8, 339.8, 0.0); ( 462127.5, 3770027.1, 339.1, 339.1, 0.0);
( 462377.5, 3770027.1, 339.5, 339.5, 0.0); ( 462427.5, 3770027.1, 339.5, 339.5, 0.0);
( 462477.5, 3770027.1, 339.4, 339.4, 0.0); ( 462527.5, 3770027.1, 339.3, 339.3, 0.0);
( 462727.5, 3770027.1, 338.9, 338.9, 0.0); ( 462777.5, 3770027.1, 338.7, 338.7, 0.0);
( 462827.5, 3770027.1, 338.4, 338.4, 0.0); ( 462877.5, 3770027.1, 337.9, 337.9, 0.0);
( 463618.2, 3769882.1, 330.3, 335.2, 0.0); ( 463668.2, 3769882.1, 331.1, 331.1, 0.0);
( 463718.2, 3769882.1, 330.8, 330.8, 0.0); ( 463768.2, 3769882.1, 331.1, 331.1, 0.0);
( 463818.2, 3769882.1, 331.3, 331.3, 0.0); ( 463518.2, 3769932.1, 335.9, 335.9, 0.0);
( 463568.2, 3769932.1, 334.9, 334.9, 0.0); ( 463618.2, 3769932.1, 332.5, 332.5, 0.0);
( 463668.2, 3769932.1, 332.3, 332.3, 0.0); ( 463718.2, 3769932.1, 332.0, 332.0, 0.0);
( 463768.2, 3769932.1, 332.0, 332.0, 0.0); ( 463818.2, 3769932.1, 331.9, 331.9, 0.0);
( 463518.2, 3769982.1, 336.2, 336.2, 0.0); ( 463568.2, 3769982.1, 334.1, 334.1, 0.0);
( 463618.2, 3769982.1, 333.4, 333.4, 0.0); ( 463668.2, 3769982.1, 333.0, 333.0, 0.0);
( 463718.2, 3769982.1, 333.3, 333.3, 0.0); ( 463768.2, 3769982.1, 332.8, 332.8, 0.0);
( 463818.2, 3769982.1, 333.1, 333.1, 0.0); ( 463516.5, 3770009.2, 335.2, 335.2, 0.0);
( 463716.5, 3770009.2, 333.7, 333.7, 0.0); ( 463766.5, 3770009.2, 333.7, 333.7, 0.0);
( 463816.5, 3770009.2, 333.8, 333.8, 0.0); ( 463118.2, 3770082.1, 337.9, 337.9, 0.0);
( 463168.2, 3770082.1, 338.0, 338.0, 0.0); ( 463668.2, 3770082.1, 334.8, 334.8, 0.0);
( 463718.2, 3770082.1, 334.7, 334.7, 0.0); ( 463768.2, 3770082.1, 334.6, 334.6, 0.0);
( 463818.2, 3770082.1, 334.7, 334.7, 0.0); ( 463868.2, 3770082.1, 334.6, 334.6, 0.0);
( 463918.2, 3770082.1, 334.5, 334.5, 0.0); ( 463968.2, 3770082.1, 334.3, 334.3, 0.0);
( 464018.2, 3770082.1, 333.6, 333.6, 0.0); ( 464068.2, 3770082.1, 333.4, 333.4, 0.0);
( 464118.2, 3770082.1, 333.6, 333.6, 0.0); ( 464168.2, 3770082.1, 332.9, 332.9, 0.0);
( 464218.2, 3770082.1, 332.2, 332.2, 0.0); ( 464268.2, 3770082.1, 331.9, 331.9, 0.0);
( 464318.2, 3770082.1, 331.4, 331.4, 0.0); ( 463118.2, 3770132.1, 338.8, 338.8, 0.0);
( 463168.2, 3770132.1, 338.5, 338.5, 0.0); ( 463218.2, 3770132.1, 338.5, 338.5, 0.0);
( 463268.2, 3770132.1, 338.3, 338.3, 0.0); ( 463318.2, 3770132.1, 337.6, 337.6, 0.0);
( 463368.2, 3770132.1, 336.8, 336.8, 0.0); ( 463418.2, 3770132.1, 336.2, 336.2, 0.0);
( 463668.2, 3770132.1, 335.8, 335.8, 0.0); ( 463718.2, 3770132.1, 335.5, 335.5, 0.0);
( 463768.2, 3770132.1, 335.2, 335.2, 0.0); ( 463818.2, 3770132.1, 335.3, 335.3, 0.0);
( 463868.2, 3770132.1, 335.3, 335.3, 0.0); ( 463918.2, 3770132.1, 335.1, 335.1, 0.0);
( 463968.2, 3770132.1, 334.8, 334.8, 0.0); ( 464018.2, 3770132.1, 334.2, 334.2, 0.0);
( 464068.2, 3770132.1, 334.0, 334.0, 0.0); ( 464118.2, 3770132.1, 334.4, 334.4, 0.0);
( 464168.2, 3770132.1, 333.7, 333.7, 0.0); ( 464218.2, 3770132.1, 332.9, 332.9, 0.0);
( 464268.2, 3770132.1, 332.4, 332.4, 0.0); ( 464318.2, 3770132.1, 332.3, 332.3, 0.0);
```

Model Output - Bloomington
CWP Implementation, 2020 Vehicle Emission Factors

```
( 463118.2, 3770182.1, 339.3, 339.3, 0.0); ( 463168.2, 3770182.1, 338.9, 338.9, 0.0);
( 463218.2, 3770182.1, 338.8, 338.8, 0.0); ( 463268.2, 3770182.1, 338.4, 338.4, 0.0);
( 463318.2, 3770182.1, 337.8, 337.8, 0.0); ( 463368.2, 3770182.1, 337.0, 337.0, 0.0);
( 463418.2, 3770182.1, 336.5, 336.5, 0.0); ( 463668.2, 3770182.1, 336.7, 336.7, 0.0);
( 463718.2, 3770182.1, 336.2, 336.2, 0.0); ( 463768.2, 3770182.1, 336.1, 336.1, 0.0);
( 463818.2, 3770182.1, 336.0, 336.0, 0.0); ( 463868.2, 3770182.1, 336.0, 336.0, 0.0);
*** AERMOD - VERSION 19191 *** *** CWP Implementation, Bloomington, 2020 *** 05/27/20
*** AERMET - VERSION 16216 *** *** (Existing Plus Project - Existing No Project) > 100 trucks/day *** 09:43:28
*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U* *** PAGE 33
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*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

```
( 463918.2, 3770182.1, 335.7, 335.7, 0.0); ( 463968.2, 3770182.1, 335.4, 335.4, 0.0);
( 464018.2, 3770182.1, 334.9, 334.9, 0.0); ( 464068.2, 3770182.1, 334.7, 334.7, 0.0);
( 464118.2, 3770182.1, 335.0, 335.0, 0.0); ( 464168.2, 3770182.1, 334.3, 334.3, 0.0);
( 464218.2, 3770182.1, 333.5, 333.5, 0.0); ( 464268.2, 3770182.1, 333.1, 333.1, 0.0);
( 464318.2, 3770182.1, 333.0, 333.0, 0.0); ( 463118.2, 3770232.1, 339.9, 339.9, 0.0);
( 463168.2, 3770232.1, 339.5, 339.5, 0.0); ( 463218.2, 3770232.1, 339.3, 339.3, 0.0);
( 463268.2, 3770232.1, 338.9, 338.9, 0.0); ( 463318.2, 3770232.1, 338.7, 338.7, 0.0);
( 463368.2, 3770232.1, 337.7, 337.7, 0.0); ( 463418.2, 3770232.1, 337.2, 337.2, 0.0);
( 463635.9, 3770316.8, 339.7, 339.7, 0.0); ( 463668.2, 3770232.1, 337.7, 337.7, 0.0);
( 463718.2, 3770232.1, 336.9, 336.9, 0.0); ( 463768.2, 3770232.1, 336.8, 336.8, 0.0);
( 463818.2, 3770232.1, 336.7, 336.7, 0.0); ( 463868.2, 3770232.1, 336.6, 336.6, 0.0);
( 463918.2, 3770232.1, 336.2, 336.2, 0.0); ( 463968.2, 3770232.1, 335.9, 335.9, 0.0);
( 464018.2, 3770232.1, 335.4, 335.4, 0.0); ( 464068.2, 3770232.1, 335.5, 335.5, 0.0);
( 464118.2, 3770232.1, 335.2, 335.2, 0.0); ( 464168.2, 3770232.1, 334.7, 334.7, 0.0);
( 464218.2, 3770232.1, 333.9, 333.9, 0.0); ( 464268.2, 3770232.1, 333.9, 333.9, 0.0);
( 464318.2, 3770232.1, 333.2, 333.2, 0.0); ( 461105.1, 3768860.0, 327.0, 583.2, 0.0);
( 461155.1, 3768860.0, 327.0, 583.2, 0.0); ( 461205.1, 3768860.0, 327.1, 583.2, 0.0);
( 461255.1, 3768860.0, 326.2, 583.2, 0.0); ( 461305.1, 3768860.0, 326.2, 573.5, 0.0);
( 461355.1, 3768860.0, 326.0, 573.0, 0.0); ( 461405.1, 3768860.0, 325.8, 565.4, 0.0);
( 461455.1, 3768860.0, 325.1, 565.4, 0.0); ( 461505.1, 3768860.0, 325.4, 565.4, 0.0);
( 461555.1, 3768860.0, 325.0, 565.4, 0.0); ( 461605.1, 3768860.0, 324.8, 565.4, 0.0);
( 461655.1, 3768860.0, 324.9, 565.4, 0.0); ( 461705.1, 3768860.0, 324.7, 565.4, 0.0);
( 461755.1, 3768860.0, 324.5, 565.4, 0.0); ( 461805.1, 3768860.0, 324.2, 565.4, 0.0);
( 461855.1, 3768860.0, 324.9, 565.4, 0.0); ( 461905.1, 3768860.0, 325.1, 565.4, 0.0);
( 461955.1, 3768860.0, 325.1, 565.4, 0.0); ( 462005.1, 3768860.0, 325.2, 565.4, 0.0);
( 462055.1, 3768860.0, 324.2, 565.4, 0.0); ( 462105.1, 3768860.0, 323.9, 564.1, 0.0);
( 462155.1, 3768860.0, 324.0, 564.1, 0.0); ( 462205.1, 3768860.0, 323.4, 564.1, 0.0);
( 462255.1, 3768860.0, 323.5, 564.1, 0.0); ( 462305.1, 3768860.0, 323.7, 564.1, 0.0);
( 462355.1, 3768860.0, 324.1, 324.1, 0.0); ( 462405.1, 3768860.0, 324.3, 324.3, 0.0);
( 462455.1, 3768860.0, 324.4, 324.4, 0.0); ( 462505.1, 3768860.0, 324.6, 324.6, 0.0);
( 462555.1, 3768860.0, 324.4, 324.4, 0.0); ( 462605.1, 3768860.0, 323.9, 323.9, 0.0);
( 461105.1, 3768910.0, 327.7, 565.4, 0.0); ( 461155.1, 3768910.0, 327.6, 565.4, 0.0);
( 461205.1, 3768910.0, 327.6, 565.4, 0.0); ( 461255.1, 3768910.0, 327.0, 565.4, 0.0);
( 461305.1, 3768910.0, 326.8, 565.4, 0.0); ( 461355.1, 3768910.0, 326.4, 565.4, 0.0);
( 461405.1, 3768910.0, 326.4, 565.4, 0.0); ( 461455.1, 3768910.0, 326.2, 565.4, 0.0);
( 461505.1, 3768910.0, 325.9, 565.4, 0.0); ( 461555.1, 3768910.0, 325.6, 565.4, 0.0);
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Model Output - Bloomington
CWP Implementation, 2020 Vehicle Emission Factors

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( 461605.1, 3768910.0, 325.3, 565.4, 0.0); ( 461655.1, 3768910.0, 325.2, 565.4, 0.0);
( 461705.1, 3768910.0, 325.2, 565.4, 0.0); ( 461755.1, 3768910.0, 325.0, 565.4, 0.0);
( 461805.1, 3768910.0, 324.9, 565.4, 0.0); ( 461855.1, 3768910.0, 325.4, 565.4, 0.0);
( 461905.1, 3768910.0, 325.7, 565.4, 0.0); ( 461955.1, 3768910.0, 325.7, 565.4, 0.0);
( 462005.1, 3768910.0, 325.4, 564.1, 0.0); ( 462055.1, 3768910.0, 324.7, 564.1, 0.0);
( 462105.1, 3768910.0, 324.4, 564.1, 0.0); ( 462155.1, 3768910.0, 324.3, 564.1, 0.0);
( 462205.1, 3768910.0, 324.2, 564.1, 0.0); ( 462255.1, 3768910.0, 324.0, 564.1, 0.0);
( 462305.1, 3768910.0, 324.5, 324.5, 0.0); ( 462355.1, 3768910.0, 324.9, 324.9, 0.0);
( 462405.1, 3768910.0, 324.9, 324.9, 0.0); ( 462455.1, 3768910.0, 325.1, 325.1, 0.0);
*** AERMOD - VERSION 19191 *** *** CWP Implemenation, Bloomington, 2020 *** 05/27/20
*** AERMET - VERSION 16216 *** *** (Existing Plus Project - Existing No Project) > 100 trucks/day *** 09:43:28
*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U* *** PAGE 34

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

( 462505.1, 3768910.0, 325.2, 325.2, 0.0); ( 462555.1, 3768910.0, 325.2, 325.2, 0.0);
( 462605.1, 3768910.0, 324.7, 324.7, 0.0); ( 461105.1, 3768960.0, 328.3, 565.4, 0.0);
( 461155.1, 3768960.0, 328.3, 565.4, 0.0); ( 461205.1, 3768960.0, 328.1, 565.4, 0.0);
( 461255.1, 3768960.0, 327.5, 565.4, 0.0); ( 461305.1, 3768960.0, 327.4, 565.4, 0.0);
( 461355.1, 3768960.0, 326.9, 565.4, 0.0); ( 461405.1, 3768960.0, 327.0, 565.4, 0.0);
( 461455.1, 3768960.0, 326.7, 565.4, 0.0); ( 461505.1, 3768960.0, 326.6, 565.4, 0.0);
( 461555.1, 3768960.0, 326.1, 565.4, 0.0); ( 461605.1, 3768960.0, 326.4, 565.4, 0.0);
( 461655.1, 3768960.0, 326.6, 565.4, 0.0); ( 461705.1, 3768960.0, 326.6, 565.4, 0.0);
( 461755.1, 3768960.0, 326.3, 565.4, 0.0); ( 461805.1, 3768960.0, 325.5, 565.4, 0.0);
( 461855.1, 3768960.0, 326.4, 565.4, 0.0); ( 461905.1, 3768960.0, 326.4, 564.1, 0.0);
( 461955.1, 3768960.0, 326.1, 564.1, 0.0); ( 462005.1, 3768960.0, 325.7, 564.1, 0.0);
( 462055.1, 3768960.0, 324.8, 564.1, 0.0); ( 462105.1, 3768960.0, 324.7, 564.1, 0.0);
( 462155.1, 3768960.0, 325.0, 564.1, 0.0); ( 462205.1, 3768960.0, 324.9, 324.9, 0.0);
( 462255.1, 3768960.0, 324.2, 324.2, 0.0); ( 462305.1, 3768960.0, 324.4, 324.4, 0.0);
( 462355.1, 3768960.0, 324.7, 324.7, 0.0); ( 462405.1, 3768960.0, 324.8, 324.8, 0.0);
( 462455.1, 3768960.0, 325.0, 325.0, 0.0); ( 462505.1, 3768960.0, 325.3, 325.3, 0.0);
( 462555.1, 3768960.0, 325.4, 325.4, 0.0); ( 462605.1, 3768960.0, 325.4, 325.4, 0.0);
( 461105.1, 3769010.0, 328.9, 565.4, 0.0); ( 461155.1, 3769010.0, 328.6, 565.4, 0.0);
( 461205.1, 3769010.0, 328.5, 565.4, 0.0); ( 461255.1, 3769010.0, 328.1, 565.4, 0.0);
( 461305.1, 3769010.0, 327.7, 565.4, 0.0); ( 461355.1, 3769010.0, 327.3, 565.4, 0.0);
( 461405.1, 3769010.0, 327.6, 565.4, 0.0); ( 461455.1, 3769010.0, 327.1, 565.4, 0.0);
( 461505.1, 3769010.0, 327.0, 565.4, 0.0); ( 461555.1, 3769010.0, 326.6, 565.4, 0.0);
( 461605.1, 3769010.0, 326.9, 565.4, 0.0); ( 461655.1, 3769010.0, 326.9, 565.4, 0.0);
( 461705.1, 3769010.0, 327.0, 565.4, 0.0); ( 461755.1, 3769010.0, 326.8, 564.1, 0.0);
( 461805.1, 3769010.0, 326.2, 564.1, 0.0); ( 461855.1, 3769010.0, 326.8, 564.1, 0.0);
( 461905.1, 3769010.0, 326.8, 564.1, 0.0); ( 461955.1, 3769010.0, 326.5, 564.1, 0.0);
( 462005.1, 3769010.0, 326.0, 564.1, 0.0); ( 462055.1, 3769010.0, 325.3, 564.1, 0.0);
( 462105.1, 3769010.0, 325.3, 325.3, 0.0); ( 462155.1, 3769010.0, 325.6, 325.6, 0.0);
( 462205.1, 3769010.0, 325.4, 325.4, 0.0); ( 462255.1, 3769010.0, 324.5, 324.5, 0.0);
( 462305.1, 3769010.0, 324.8, 324.8, 0.0); ( 462355.1, 3769010.0, 325.3, 325.3, 0.0);
( 462405.1, 3769010.0, 325.7, 325.7, 0.0); ( 462455.1, 3769010.0, 326.1, 326.1, 0.0);
( 462505.1, 3769010.0, 325.9, 325.9, 0.0); ( 462555.1, 3769010.0, 325.9, 325.9, 0.0);
( 462605.1, 3769010.0, 326.0, 326.0, 0.0); ( 461105.1, 3769060.0, 329.5, 565.4, 0.0);
```

Model Output - Bloomington
CWP Implementation, 2020 Vehicle Emission Factors

```
( 461155.1, 3769060.0, 329.1, 565.4, 0.0); ( 461205.1, 3769060.0, 328.8, 565.4, 0.0);
( 461255.1, 3769060.0, 328.6, 565.4, 0.0); ( 461305.1, 3769060.0, 328.1, 565.4, 0.0);
( 461355.1, 3769060.0, 328.1, 565.4, 0.0); ( 461405.1, 3769060.0, 328.2, 565.4, 0.0);
( 461455.1, 3769060.0, 328.1, 565.4, 0.0); ( 462155.1, 3769060.0, 326.3, 326.3, 0.0);
( 462205.1, 3769060.0, 326.0, 326.0, 0.0); ( 462255.1, 3769060.0, 326.4, 326.4, 0.0);
( 462305.1, 3769060.0, 326.2, 326.2, 0.0); ( 462355.1, 3769060.0, 326.0, 326.0, 0.0);
( 462405.1, 3769060.0, 326.2, 326.2, 0.0); ( 462455.1, 3769060.0, 326.5, 326.5, 0.0);
( 462505.1, 3769060.0, 326.4, 326.4, 0.0); ( 462555.1, 3769060.0, 326.7, 326.7, 0.0);
( 462605.1, 3769060.0, 326.6, 326.6, 0.0); ( 461105.1, 3769110.0, 329.9, 565.4, 0.0);
( 461155.1, 3769110.0, 329.4, 565.4, 0.0); ( 461205.1, 3769110.0, 329.2, 565.4, 0.0);
( 461255.1, 3769110.0, 329.0, 565.4, 0.0); ( 461305.1, 3769110.0, 328.5, 565.4, 0.0);
( 461355.1, 3769110.0, 328.6, 564.1, 0.0); ( 462255.1, 3769110.0, 327.0, 327.0, 0.0);
*** AERMOD - VERSION 19191 *** *** CWP Implemenation, Bloomington, 2020 *** 05/27/20
*** AERMET - VERSION 16216 *** *** (Existing Plus Project - Existing No Project) > 100 trucks/day *** 09:43:28
*** MODELOPTS: RegDFAULT CONC ELEV URBAN ADJ_U* *** PAGE 35

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

( 462305.1, 3769110.0, 326.9, 326.9, 0.0); ( 462355.1, 3769110.0, 326.9, 326.9, 0.0);
( 462405.1, 3769110.0, 326.9, 326.9, 0.0); ( 462455.1, 3769110.0, 327.0, 327.0, 0.0);
( 462505.1, 3769110.0, 327.0, 327.0, 0.0); ( 462555.1, 3769110.0, 327.3, 327.3, 0.0);
( 462605.1, 3769110.0, 327.2, 327.2, 0.0); ( 461105.1, 3769160.0, 330.5, 564.1, 0.0);
( 461155.1, 3769160.0, 330.2, 564.1, 0.0); ( 461205.1, 3769160.0, 330.0, 564.1, 0.0);
( 461255.1, 3769160.0, 329.4, 564.1, 0.0); ( 461305.1, 3769160.0, 329.1, 564.1, 0.0);
( 461355.1, 3769160.0, 329.4, 564.1, 0.0); ( 462255.1, 3769160.0, 327.3, 327.3, 0.0);
( 462305.1, 3769160.0, 327.4, 327.4, 0.0); ( 462355.1, 3769160.0, 327.5, 327.5, 0.0);
( 462405.1, 3769160.0, 327.7, 327.7, 0.0); ( 462455.1, 3769160.0, 327.8, 327.8, 0.0);
( 462505.1, 3769160.0, 327.9, 327.9, 0.0); ( 462555.1, 3769160.0, 327.9, 327.9, 0.0);
( 462605.1, 3769160.0, 327.7, 327.7, 0.0); ( 461105.1, 3769210.0, 331.2, 564.1, 0.0);
( 461155.1, 3769210.0, 331.0, 564.1, 0.0); ( 461205.1, 3769210.0, 330.7, 564.1, 0.0);
( 461255.1, 3769210.0, 330.3, 564.1, 0.0); ( 461305.1, 3769210.0, 330.0, 564.1, 0.0);
( 461355.1, 3769210.0, 330.2, 564.1, 0.0); ( 462255.1, 3769210.0, 327.7, 327.7, 0.0);
( 462305.1, 3769210.0, 327.9, 327.9, 0.0); ( 462355.1, 3769210.0, 328.0, 328.0, 0.0);
( 462405.1, 3769210.0, 328.4, 328.4, 0.0); ( 462455.1, 3769210.0, 328.6, 328.6, 0.0);
( 462505.1, 3769210.0, 328.7, 328.7, 0.0); ( 462555.1, 3769210.0, 328.6, 328.6, 0.0);
( 462605.1, 3769210.0, 328.4, 328.4, 0.0); ( 462238.8, 3769377.9, 330.3, 330.3, 0.0);
( 462288.8, 3769377.9, 330.1, 330.1, 0.0); ( 462238.8, 3769427.9, 331.4, 331.4, 0.0);
( 462288.8, 3769427.9, 331.1, 331.1, 0.0); ( 462109.4, 3769333.4, 329.6, 329.6, 0.0);
( 462159.4, 3769333.4, 329.9, 329.9, 0.0); ( 462109.4, 3769383.4, 330.2, 330.2, 0.0);
( 462159.4, 3769383.4, 330.4, 330.4, 0.0); ( 462640.9, 3768858.5, 324.2, 324.2, 0.0);
( 462690.9, 3768858.5, 324.7, 324.7, 0.0); ( 462740.9, 3768858.5, 324.3, 324.3, 0.0);
( 462790.9, 3768858.5, 323.6, 323.6, 0.0); ( 462840.9, 3768858.5, 323.5, 323.5, 0.0);
( 462890.9, 3768858.5, 324.1, 324.1, 0.0); ( 462940.9, 3768858.5, 322.1, 322.1, 0.0);
( 462990.9, 3768858.5, 322.3, 322.3, 0.0); ( 462640.9, 3768908.5, 324.9, 324.9, 0.0);
( 462690.9, 3768908.5, 325.1, 325.1, 0.0); ( 462740.9, 3768908.5, 324.7, 324.7, 0.0);
( 462790.9, 3768908.5, 324.1, 324.1, 0.0); ( 462840.9, 3768908.5, 323.9, 323.9, 0.0);
( 462890.9, 3768908.5, 324.1, 324.1, 0.0); ( 462940.9, 3768908.5, 323.2, 323.2, 0.0);
( 462990.9, 3768908.5, 322.9, 322.9, 0.0); ( 462640.9, 3768958.5, 326.0, 326.0, 0.0);
```

Model Output - Bloomington
CWP Implementation, 2020 Vehicle Emission Factors

```
( 462690.9, 3768958.5, 326.2, 326.2, 0.0); ( 462740.9, 3768958.5, 325.4, 325.4, 0.0);
( 462790.9, 3768958.5, 324.9, 324.9, 0.0); ( 462840.9, 3768958.5, 324.5, 324.5, 0.0);
( 462890.9, 3768958.5, 324.5, 324.5, 0.0); ( 462940.9, 3768958.5, 324.3, 324.3, 0.0);
( 462990.9, 3768958.5, 324.0, 324.0, 0.0); ( 462640.9, 3769008.5, 326.6, 326.6, 0.0);
( 462690.9, 3769008.5, 326.6, 326.6, 0.0); ( 462740.9, 3769008.5, 326.3, 326.3, 0.0);
( 462790.9, 3769008.5, 325.9, 325.9, 0.0); ( 462840.9, 3769008.5, 326.2, 326.2, 0.0);
( 462890.9, 3769008.5, 325.9, 325.9, 0.0); ( 462940.9, 3769008.5, 325.5, 325.5, 0.0);
( 462990.9, 3769008.5, 325.1, 325.1, 0.0); ( 462640.9, 3769058.5, 327.1, 327.1, 0.0);
( 462690.9, 3769058.5, 326.9, 326.9, 0.0); ( 462740.9, 3769058.5, 327.0, 327.0, 0.0);
( 462790.9, 3769058.5, 326.7, 326.7, 0.0); ( 462840.9, 3769058.5, 326.1, 326.1, 0.0);
( 462890.9, 3769058.5, 326.2, 326.2, 0.0); ( 462940.9, 3769058.5, 325.3, 325.3, 0.0);
( 462990.9, 3769058.5, 325.3, 325.3, 0.0); ( 462640.9, 3769108.5, 327.8, 327.8, 0.0);
( 462690.9, 3769108.5, 327.1, 327.1, 0.0); ( 462740.9, 3769108.5, 327.4, 327.4, 0.0);
( 462790.9, 3769108.5, 327.2, 327.2, 0.0); ( 462840.9, 3769108.5, 326.4, 326.4, 0.0);
( 462890.9, 3769108.5, 326.5, 326.5, 0.0); ( 462940.9, 3769108.5, 325.6, 325.6, 0.0);
*** AERMOD - VERSION 19191 *** *** CWP Implementation, Bloomington, 2020 *** 05/27/20
*** AERMET - VERSION 16216 *** *** (Existing Plus Project - Existing No Project) > 100 trucks/day *** 09:43:28
*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U* *** PAGE 36

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

( 462990.9, 3769108.5, 326.0, 326.0, 0.0); ( 462640.9, 3769158.5, 328.4, 328.4, 0.0);
( 462690.9, 3769158.5, 327.4, 327.4, 0.0); ( 462740.9, 3769158.5, 327.8, 327.8, 0.0);
( 462790.9, 3769158.5, 327.5, 327.5, 0.0); ( 462840.9, 3769158.5, 326.8, 326.8, 0.0);
( 462890.9, 3769158.5, 327.0, 327.0, 0.0); ( 462940.9, 3769158.5, 325.9, 325.9, 0.0);
( 462990.9, 3769158.5, 326.6, 326.6, 0.0); ( 462640.9, 3769208.5, 328.9, 328.9, 0.0);
( 462690.9, 3769208.5, 328.6, 328.6, 0.0); ( 462740.9, 3769208.5, 328.4, 328.4, 0.0);
( 462790.9, 3769208.5, 328.3, 328.3, 0.0); ( 462840.9, 3769208.5, 327.8, 327.8, 0.0);
( 462890.9, 3769208.5, 327.5, 327.5, 0.0); ( 462940.9, 3769208.5, 326.9, 326.9, 0.0);
( 462990.9, 3769208.5, 326.9, 326.9, 0.0); ( 462949.0, 3769277.2, 327.8, 327.8, 0.0);
( 462999.0, 3769277.2, 327.7, 327.7, 0.0); ( 462949.0, 3769327.2, 328.4, 328.4, 0.0);
( 462999.0, 3769327.2, 328.1, 328.1, 0.0); ( 463498.3, 3768863.1, 323.6, 323.6, 0.0);
( 463548.3, 3768863.1, 322.9, 322.9, 0.0); ( 463598.3, 3768863.1, 321.6, 321.6, 0.0);
( 463648.3, 3768863.1, 320.6, 320.6, 0.0); ( 463698.3, 3768863.1, 320.0, 320.0, 0.0);
( 463748.3, 3768863.1, 319.7, 319.7, 0.0); ( 463798.3, 3768863.1, 319.3, 319.3, 0.0);
( 463848.3, 3768863.1, 318.3, 318.3, 0.0); ( 463898.3, 3768863.1, 318.0, 318.0, 0.0);
( 463948.3, 3768863.1, 318.3, 318.3, 0.0); ( 463998.3, 3768863.1, 317.9, 317.9, 0.0);
( 464048.3, 3768863.1, 316.1, 316.1, 0.0); ( 464098.3, 3768863.1, 316.1, 316.1, 0.0);
( 464148.3, 3768863.1, 315.5, 315.5, 0.0); ( 464198.3, 3768863.1, 315.7, 315.7, 0.0);
( 464248.3, 3768863.1, 314.8, 314.8, 0.0); ( 464298.3, 3768863.1, 314.5, 314.5, 0.0);
( 464348.3, 3768863.1, 314.7, 314.7, 0.0); ( 464398.3, 3768863.1, 314.4, 314.4, 0.0);
( 464448.3, 3768863.1, 314.4, 314.4, 0.0); ( 464498.3, 3768863.1, 314.2, 314.2, 0.0);
( 464548.3, 3768863.1, 313.9, 313.9, 0.0); ( 464598.3, 3768863.1, 313.5, 313.5, 0.0);
( 463498.3, 3768913.1, 324.0, 324.0, 0.0); ( 463548.3, 3768913.1, 323.5, 323.5, 0.0);
( 463598.3, 3768913.1, 322.2, 322.2, 0.0); ( 463648.3, 3768913.1, 321.1, 321.1, 0.0);
( 463698.3, 3768913.1, 320.5, 320.5, 0.0); ( 463748.3, 3768913.1, 320.1, 320.1, 0.0);
( 463798.3, 3768913.1, 319.7, 319.7, 0.0); ( 463848.3, 3768913.1, 319.0, 319.0, 0.0);
( 463898.3, 3768913.1, 319.1, 319.1, 0.0); ( 463948.3, 3768913.1, 319.1, 319.1, 0.0);
```

Model Output - Bloomington
CWP Implementation, 2020 Vehicle Emission Factors

```
( 463998.3, 3768913.1, 318.6, 318.6, 0.0); ( 464048.3, 3768913.1, 317.1, 317.1, 0.0);
( 464098.3, 3768913.1, 316.8, 316.8, 0.0); ( 464148.3, 3768913.1, 316.6, 316.6, 0.0);
( 464198.3, 3768913.1, 316.0, 316.0, 0.0); ( 464248.3, 3768913.1, 315.9, 315.9, 0.0);
( 464298.3, 3768913.1, 315.5, 315.5, 0.0); ( 464348.3, 3768913.1, 315.4, 315.4, 0.0);
( 464398.3, 3768913.1, 315.2, 315.2, 0.0); ( 464448.3, 3768913.1, 314.9, 314.9, 0.0);
( 464498.3, 3768913.1, 314.6, 314.6, 0.0); ( 464548.3, 3768913.1, 314.4, 314.4, 0.0);
( 464598.3, 3768913.1, 314.3, 314.3, 0.0); ( 463498.3, 3768963.1, 324.4, 324.4, 0.0);
( 463548.3, 3768963.1, 323.3, 323.3, 0.0); ( 463598.3, 3768963.1, 322.2, 322.2, 0.0);
( 463648.3, 3768963.1, 321.1, 321.1, 0.0); ( 463698.3, 3768963.1, 320.7, 320.7, 0.0);
( 463748.3, 3768963.1, 320.5, 320.5, 0.0); ( 463798.3, 3768963.1, 320.4, 320.4, 0.0);
( 463848.3, 3768963.1, 319.8, 319.8, 0.0); ( 463898.3, 3768963.1, 319.8, 319.8, 0.0);
( 463948.3, 3768963.1, 319.9, 319.9, 0.0); ( 463998.3, 3768963.1, 319.3, 319.3, 0.0);
( 464048.3, 3768963.1, 317.7, 317.7, 0.0); ( 464098.3, 3768963.1, 317.2, 317.2, 0.0);
( 464148.3, 3768963.1, 316.8, 316.8, 0.0); ( 464198.3, 3768963.1, 317.0, 317.0, 0.0);
( 464248.3, 3768963.1, 316.4, 316.4, 0.0); ( 464298.3, 3768963.1, 315.9, 315.9, 0.0);
( 464348.3, 3768963.1, 315.9, 315.9, 0.0); ( 464398.3, 3768963.1, 315.6, 315.6, 0.0);
( 464448.3, 3768963.1, 315.6, 315.6, 0.0); ( 464498.3, 3768963.1, 315.4, 315.4, 0.0);
( 464548.3, 3768963.1, 315.2, 315.2, 0.0); ( 464598.3, 3768963.1, 314.9, 314.9, 0.0);
*** AERMOD - VERSION 19191 *** CWP Implemenation, Bloomington, 2020 *** 05/27/20
*** AERMET - VERSION 16216 *** (Existing Plus Project - Existing No Project) > 100 trucks/day *** 09:43:28
*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U* *** PAGE 37

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

( 463498.3, 3769013.1, 325.2, 325.2, 0.0); ( 463548.3, 3769013.1, 323.7, 323.7, 0.0);
( 463598.3, 3769013.1, 323.8, 323.8, 0.0); ( 463648.3, 3769013.1, 321.5, 321.5, 0.0);
( 463698.3, 3769013.1, 321.6, 321.6, 0.0); ( 463748.3, 3769013.1, 321.0, 321.0, 0.0);
( 463798.3, 3769013.1, 321.2, 321.2, 0.0); ( 463848.3, 3769013.1, 320.3, 320.3, 0.0);
( 463898.3, 3769013.1, 320.7, 320.7, 0.0); ( 463948.3, 3769013.1, 320.4, 320.4, 0.0);
( 463998.3, 3769013.1, 319.7, 319.7, 0.0); ( 464048.3, 3769013.1, 318.8, 318.8, 0.0);
( 464098.3, 3769013.1, 318.3, 318.3, 0.0); ( 464148.3, 3769013.1, 317.4, 317.4, 0.0);
( 464198.3, 3769013.1, 317.3, 317.3, 0.0); ( 464248.3, 3769013.1, 317.1, 317.1, 0.0);
( 464298.3, 3769013.1, 316.8, 316.8, 0.0); ( 464348.3, 3769013.1, 316.5, 316.5, 0.0);
( 464398.3, 3769013.1, 316.6, 316.6, 0.0); ( 464448.3, 3769013.1, 316.7, 316.7, 0.0);
( 464498.3, 3769013.1, 316.1, 316.1, 0.0); ( 464548.3, 3769013.1, 315.7, 315.7, 0.0);
( 464598.3, 3769013.1, 315.4, 315.4, 0.0); ( 463498.3, 3769063.1, 325.7, 325.7, 0.0);
( 463548.3, 3769063.1, 324.0, 324.0, 0.0); ( 463598.3, 3769063.1, 324.2, 324.2, 0.0);
( 463648.3, 3769063.1, 321.9, 321.9, 0.0); ( 463698.3, 3769063.1, 322.1, 322.1, 0.0);
( 463748.3, 3769063.1, 321.6, 321.6, 0.0); ( 463798.3, 3769063.1, 321.9, 321.9, 0.0);
( 463848.3, 3769063.1, 321.4, 321.4, 0.0); ( 463898.3, 3769063.1, 321.2, 321.2, 0.0);
( 463948.3, 3769063.1, 320.9, 320.9, 0.0); ( 463998.3, 3769063.1, 319.6, 319.6, 0.0);
( 464048.3, 3769063.1, 319.1, 319.1, 0.0); ( 464098.3, 3769063.1, 318.6, 318.6, 0.0);
( 464148.3, 3769063.1, 318.0, 318.0, 0.0); ( 464198.3, 3769063.1, 317.9, 317.9, 0.0);
( 464248.3, 3769063.1, 318.0, 318.0, 0.0); ( 464298.3, 3769063.1, 317.5, 317.5, 0.0);
( 464348.3, 3769063.1, 317.5, 317.5, 0.0); ( 464398.3, 3769063.1, 317.6, 317.6, 0.0);
( 464598.3, 3769063.1, 316.1, 316.1, 0.0); ( 463498.3, 3769113.1, 326.2, 326.2, 0.0);
( 463548.3, 3769113.1, 324.4, 324.4, 0.0); ( 463598.3, 3769113.1, 324.4, 324.4, 0.0);
( 463648.3, 3769113.1, 322.3, 322.3, 0.0); ( 463698.3, 3769113.1, 322.6, 322.6, 0.0);
```

Model Output - Bloomington
CWP Implementation, 2020 Vehicle Emission Factors

(463748.3, 3769113.1,	322.2,	322.2,	0.0);	(463798.3, 3769113.1,	322.6,	322.6,	0.0);
(463848.3, 3769113.1,	322.2,	322.2,	0.0);	(463898.3, 3769113.1,	322.3,	322.3,	0.0);
(463948.3, 3769113.1,	321.1,	321.1,	0.0);	(463998.3, 3769113.1,	320.1,	320.1,	0.0);
(464048.3, 3769113.1,	319.2,	319.2,	0.0);	(464098.3, 3769113.1,	318.9,	318.9,	0.0);
(464148.3, 3769113.1,	319.0,	319.0,	0.0);	(464198.3, 3769113.1,	319.3,	319.3,	0.0);
(464248.3, 3769113.1,	318.5,	318.5,	0.0);	(464298.3, 3769113.1,	318.1,	318.1,	0.0);
(464348.3, 3769113.1,	318.3,	318.3,	0.0);	(464398.3, 3769113.1,	318.2,	318.2,	0.0);
(463498.3, 3769163.1,	326.8,	326.8,	0.0);	(463548.3, 3769163.1,	324.9,	324.9,	0.0);
(463598.3, 3769163.1,	324.9,	324.9,	0.0);	(463648.3, 3769163.1,	322.7,	322.7,	0.0);
(463698.3, 3769163.1,	323.2,	323.2,	0.0);	(463748.3, 3769163.1,	322.9,	322.9,	0.0);
(463798.3, 3769163.1,	323.3,	323.3,	0.0);	(463848.3, 3769163.1,	322.9,	322.9,	0.0);
(463898.3, 3769163.1,	321.8,	321.8,	0.0);	(463948.3, 3769163.1,	321.2,	321.2,	0.0);
(463998.3, 3769163.1,	320.0,	320.0,	0.0);	(464048.3, 3769163.1,	319.9,	319.9,	0.0);
(464098.3, 3769163.1,	320.0,	320.0,	0.0);	(464148.3, 3769163.1,	319.8,	319.8,	0.0);
(464198.3, 3769163.1,	319.7,	319.7,	0.0);	(464248.3, 3769163.1,	319.4,	319.4,	0.0);
(464298.3, 3769163.1,	319.2,	319.2,	0.0);	(464348.3, 3769163.1,	318.8,	318.8,	0.0);
(464398.3, 3769163.1,	318.6,	318.6,	0.0);	(464398.3, 3769213.1,	327.1,	327.1,	0.0);
(463548.3, 3769213.1,	326.1,	326.1,	0.0);	(463598.3, 3769213.1,	325.4,	325.4,	0.0);
(463648.3, 3769213.1,	324.1,	324.1,	0.0);	(463698.3, 3769213.1,	323.9,	323.9,	0.0);
(463748.3, 3769213.1,	323.6,	323.6,	0.0);	(463798.3, 3769213.1,	323.6,	323.6,	0.0);
(463848.3, 3769213.1,	323.3,	323.3,	0.0);	(463898.3, 3769213.1,	322.1,	322.1,	0.0);
*** AERMOD - VERSION 19191 ***	*** CWP Implemenation, Bloomington, 2020	***	05/27/20				
*** AERMET - VERSION 16216 ***	*** (Existing Plus Project - Existing No Project) > 100 trucks/day	***	09:43:28				
*** MODELOPTS: RegDFAULT CONC ELEV URBAN ADJ_U*			PAGE 38				

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(463948.3, 3769213.1,	321.5,	321.5,	0.0);	(463998.3, 3769213.1,	321.2,	321.2,	0.0);
(464048.3, 3769213.1,	320.8,	320.8,	0.0);	(464098.3, 3769213.1,	320.7,	320.7,	0.0);
(464148.3, 3769213.1,	320.5,	320.5,	0.0);	(464198.3, 3769213.1,	320.5,	320.5,	0.0);
(464248.3, 3769213.1,	320.0,	320.0,	0.0);	(464298.3, 3769213.1,	320.0,	320.0,	0.0);
(464348.3, 3769213.1,	319.5,	319.5,	0.0);	(464398.3, 3769213.1,	319.2,	319.2,	0.0);
(463448.3, 3769263.1,	327.5,	327.5,	0.0);	(463498.3, 3769263.1,	327.6,	327.6,	0.0);
(463548.3, 3769263.1,	327.1,	327.1,	0.0);	(463598.3, 3769263.1,	326.4,	326.4,	0.0);
(463648.3, 3769263.1,	325.3,	325.3,	0.0);	(463698.3, 3769263.1,	324.8,	324.8,	0.0);
(463748.3, 3769263.1,	324.2,	324.2,	0.0);	(463798.3, 3769263.1,	323.7,	323.7,	0.0);
(463448.3, 3769313.1,	328.2,	328.2,	0.0);	(463498.3, 3769313.1,	328.1,	328.1,	0.0);
(463548.3, 3769313.1,	328.0,	328.0,	0.0);	(463598.3, 3769313.1,	327.0,	327.0,	0.0);
(463648.3, 3769313.1,	325.2,	325.2,	0.0);	(463698.3, 3769313.1,	324.8,	324.8,	0.0);
(463748.3, 3769313.1,	324.2,	324.2,	0.0);	(463798.3, 3769313.1,	323.8,	323.8,	0.0);
(463448.3, 3769363.1,	329.5,	329.5,	0.0);	(463498.3, 3769363.1,	329.2,	329.2,	0.0);
(463548.3, 3769363.1,	329.3,	329.3,	0.0);	(463598.3, 3769363.1,	327.5,	327.5,	0.0);
(463648.3, 3769363.1,	326.7,	326.7,	0.0);	(463698.3, 3769363.1,	326.2,	326.2,	0.0);
(463748.3, 3769363.1,	326.1,	326.1,	0.0);	(463798.3, 3769363.1,	324.2,	324.2,	0.0);
(463448.3, 3769413.1,	329.6,	329.6,	0.0);	(463498.3, 3769413.1,	329.6,	329.6,	0.0);
(463548.3, 3769413.1,	329.3,	329.3,	0.0);	(463598.3, 3769413.1,	327.9,	327.9,	0.0);
(463648.3, 3769413.1,	327.1,	327.1,	0.0);	(463698.3, 3769413.1,	326.9,	326.9,	0.0);
(463748.3, 3769413.1,	325.9,	325.9,	0.0);	(463798.3, 3769413.1,	324.7,	324.7,	0.0);

Model Output - Bloomington
CWP Implementation, 2020 Vehicle Emission Factors

(464446.3, 3767274.5,	296.3,	296.3,	0.0);	(464496.3, 3767274.5,	295.5,	295.5,	0.0);
(464546.3, 3767274.5,	295.0,	295.0,	0.0);	(464596.3, 3767274.5,	293.4,	293.4,	0.0);
(464446.3, 3767324.5,	295.9,	297.7,	0.0);	(464496.3, 3767324.5,	293.4,	293.4,	0.0);
(464546.3, 3767324.5,	293.2,	293.2,	0.0);	(464596.3, 3767324.5,	292.9,	292.9,	0.0);
(464446.3, 3767374.5,	295.9,	298.2,	0.0);	(464496.3, 3767374.5,	293.6,	293.6,	0.0);
(464546.3, 3767374.5,	294.3,	294.3,	0.0);	(464596.3, 3767374.5,	294.0,	294.0,	0.0);
(464446.3, 3767424.5,	295.0,	295.0,	0.0);	(464496.3, 3767424.5,	293.9,	293.9,	0.0);
(464546.3, 3767424.5,	294.7,	294.7,	0.0);	(464596.3, 3767424.5,	294.8,	294.8,	0.0);
(464446.3, 3767474.5,	295.4,	295.4,	0.0);	(464496.3, 3767474.5,	294.1,	294.1,	0.0);
(464546.3, 3767474.5,	295.3,	295.3,	0.0);	(464596.3, 3767474.5,	295.5,	295.5,	0.0);
(464446.3, 3767524.5,	295.9,	295.9,	0.0);	(464496.3, 3767524.5,	294.7,	294.7,	0.0);
(464546.3, 3767524.5,	295.8,	295.8,	0.0);	(464596.3, 3767524.5,	296.1,	296.1,	0.0);
(464446.3, 3767574.5,	297.1,	297.1,	0.0);	(464496.3, 3767574.5,	296.8,	296.8,	0.0);
(464546.3, 3767574.5,	296.6,	296.6,	0.0);	(464596.3, 3767574.5,	296.3,	296.3,	0.0);
(464346.3, 3767624.5,	298.8,	298.8,	0.0);	(464396.3, 3767624.5,	297.8,	297.8,	0.0);
(464446.3, 3767624.5,	297.8,	297.8,	0.0);	(464496.3, 3767624.5,	297.4,	297.4,	0.0);
(464546.3, 3767624.5,	297.3,	297.3,	0.0);	(464596.3, 3767624.5,	296.9,	296.9,	0.0);
(464646.3, 3767624.5,	296.6,	296.6,	0.0);	(464696.3, 3767624.5,	296.2,	296.2,	0.0);
(464746.3, 3767624.5,	295.7,	295.7,	0.0);	(464796.3, 3767624.5,	295.4,	295.4,	0.0);
(464846.3, 3767624.5,	295.1,	295.1,	0.0);	(464346.3, 3767674.5,	298.9,	298.9,	0.0);
(464396.3, 3767674.5,	298.5,	298.5,	0.0);	(464446.3, 3767674.5,	298.6,	298.6,	0.0);
(464496.3, 3767674.5,	298.4,	298.4,	0.0);	(464546.3, 3767674.5,	297.7,	297.7,	0.0);
(464596.3, 3767674.5,	297.6,	297.6,	0.0);	(464646.3, 3767674.5,	297.3,	297.3,	0.0);
(464696.3, 3767674.5,	297.0,	297.0,	0.0);	(464746.3, 3767674.5,	296.4,	296.4,	0.0);
*** AERMOD - VERSION 19191 ***	*** CWP Implemenation, Bloomington, 2020			***			05/27/20
*** AERMET - VERSION 16216 ***	*** (Existing Plus Project - Existing No Project) > 100 trucks/day			***			09:43:28
*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*							PAGE 39
*** DISCRETE CARTESIAN RECEPTORS ***							
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)							
(METERS)							
(464796.3, 3767674.5,	296.0,	296.0,	0.0);	(464846.3, 3767674.5,	295.6,	295.6,	0.0);
(464346.3, 3767724.5,	299.4,	299.4,	0.0);	(464396.3, 3767724.5,	299.1,	299.1,	0.0);
(464446.3, 3767724.5,	299.3,	299.3,	0.0);	(464496.3, 3767724.5,	298.8,	298.8,	0.0);
(464546.3, 3767724.5,	298.6,	298.6,	0.0);	(464596.3, 3767724.5,	298.4,	298.4,	0.0);
(464646.3, 3767724.5,	298.1,	298.1,	0.0);	(464696.3, 3767724.5,	297.6,	297.6,	0.0);
(464746.3, 3767724.5,	297.2,	297.2,	0.0);	(464796.3, 3767724.5,	296.8,	296.8,	0.0);
(464846.3, 3767724.5,	296.3,	296.3,	0.0);	(464346.3, 3767774.5,	300.0,	300.0,	0.0);
(464396.3, 3767774.5,	299.6,	299.6,	0.0);	(464446.3, 3767774.5,	300.0,	300.0,	0.0);
(464496.3, 3767774.5,	299.4,	299.4,	0.0);	(464546.3, 3767774.5,	299.2,	299.2,	0.0);
(464596.3, 3767774.5,	299.0,	299.0,	0.0);	(464646.3, 3767774.5,	298.7,	298.7,	0.0);
(464696.3, 3767774.5,	298.3,	298.3,	0.0);	(464746.3, 3767774.5,	298.1,	298.1,	0.0);
(464796.3, 3767774.5,	298.0,	298.0,	0.0);	(464846.3, 3767774.5,	296.9,	296.9,	0.0);
(464346.3, 3767824.5,	300.9,	300.9,	0.0);	(464396.3, 3767824.5,	300.6,	300.6,	0.0);
(464446.3, 3767824.5,	300.5,	300.5,	0.0);	(464496.3, 3767824.5,	300.2,	300.2,	0.0);
(464546.3, 3767824.5,	299.9,	299.9,	0.0);	(464596.3, 3767824.5,	299.8,	299.8,	0.0);
(464646.3, 3767824.5,	299.6,	299.6,	0.0);	(464696.3, 3767824.5,	299.2,	299.2,	0.0);
(464746.3, 3767824.5,	298.8,	298.8,	0.0);	(464796.3, 3767824.5,	298.5,	298.5,	0.0);
(464846.3, 3767824.5,	297.8,	297.8,	0.0);	(464346.3, 3767874.5,	301.4,	301.4,	0.0);

Model Output - Bloomington
CWP Implementation, 2020 Vehicle Emission Factors

```
( 464396.3, 3767874.5, 301.1, 301.1, 0.0); ( 464446.3, 3767874.5, 301.0, 301.0, 0.0);
( 464496.3, 3767874.5, 300.9, 300.9, 0.0); ( 464546.3, 3767874.5, 301.0, 301.0, 0.0);
( 464596.3, 3767874.5, 300.8, 300.8, 0.0); ( 464646.3, 3767874.5, 300.4, 300.4, 0.0);
( 464696.3, 3767874.5, 299.8, 299.8, 0.0); ( 464746.3, 3767874.5, 299.2, 299.2, 0.0);
( 464796.3, 3767874.5, 298.9, 298.9, 0.0); ( 464846.3, 3767874.5, 298.1, 298.1, 0.0);
( 464346.3, 3767924.5, 301.8, 301.8, 0.0); ( 464396.3, 3767924.5, 301.5, 301.5, 0.0);
( 464446.3, 3767924.5, 301.3, 301.3, 0.0); ( 464496.3, 3767924.5, 301.5, 301.5, 0.0);
( 464546.3, 3767924.5, 301.5, 301.5, 0.0); ( 464596.3, 3767924.5, 301.3, 301.3, 0.0);
( 464646.3, 3767924.5, 301.2, 301.2, 0.0); ( 464696.3, 3767924.5, 300.3, 300.3, 0.0);
( 464746.3, 3767924.5, 299.9, 299.9, 0.0); ( 464796.3, 3767924.5, 299.4, 299.4, 0.0);
( 464846.3, 3767924.5, 298.7, 298.7, 0.0); ( 464346.3, 3767974.5, 302.5, 302.5, 0.0);
( 464396.3, 3767974.5, 302.1, 302.1, 0.0); ( 464446.3, 3767974.5, 302.0, 302.0, 0.0);
( 464496.3, 3767974.5, 302.1, 302.1, 0.0); ( 464546.3, 3767974.5, 302.1, 302.1, 0.0);
( 464596.3, 3767974.5, 301.8, 301.8, 0.0); ( 464646.3, 3767974.5, 301.5, 301.5, 0.0);
( 464696.3, 3767974.5, 300.9, 300.9, 0.0); ( 464746.3, 3767974.5, 300.7, 300.7, 0.0);
( 464796.3, 3767974.5, 299.6, 299.6, 0.0); ( 464846.3, 3767974.5, 299.4, 299.4, 0.0);
( 464346.3, 3768024.5, 303.6, 303.6, 0.0); ( 464396.3, 3768024.5, 303.4, 303.4, 0.0);
( 464446.3, 3768024.5, 303.4, 303.4, 0.0); ( 464496.3, 3768024.5, 303.4, 303.4, 0.0);
( 464546.3, 3768024.5, 303.0, 303.0, 0.0); ( 464596.3, 3768024.5, 302.7, 302.7, 0.0);
( 464646.3, 3768024.5, 302.3, 302.3, 0.0); ( 464696.3, 3768024.5, 301.8, 301.8, 0.0);
( 464746.3, 3768024.5, 301.0, 301.0, 0.0); ( 464796.3, 3768024.5, 300.1, 300.1, 0.0);
( 464846.3, 3768024.5, 299.6, 299.6, 0.0); ( 464346.3, 3768074.5, 304.4, 304.4, 0.0);
( 464396.3, 3768074.5, 304.2, 304.2, 0.0); ( 464446.3, 3768074.5, 303.9, 303.9, 0.0);
( 464496.3, 3768074.5, 304.3, 304.3, 0.0); ( 464546.3, 3768074.5, 303.4, 303.4, 0.0);
( 464596.3, 3768074.5, 303.2, 303.2, 0.0); ( 464646.3, 3768074.5, 302.9, 302.9, 0.0);
( 464696.3, 3768074.5, 302.3, 302.3, 0.0); ( 464746.3, 3768074.5, 301.6, 301.6, 0.0);
( 464796.3, 3768074.5, 300.8, 300.8, 0.0); ( 464346.3, 3768124.5, 305.0, 305.0, 0.0);
*** AERMOD - VERSION 19191 *** *** CWP Implementation, Bloomington, 2020 *** 05/27/20
*** AERMET - VERSION 16216 *** *** (Existing Plus Project - Existing No Project) > 100 trucks/day *** 09:43:28
*** MODELPTs: RegDFAULT CONC ELEV URBAN ADJ_U* *** PAGE 40

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

( 464396.3, 3768124.5, 304.5, 304.5, 0.0); ( 464446.3, 3768124.5, 304.5, 304.5, 0.0);
( 464496.3, 3768124.5, 304.6, 304.6, 0.0); ( 464546.3, 3768124.5, 304.2, 304.2, 0.0);
( 464596.3, 3768124.5, 303.8, 303.8, 0.0); ( 464646.3, 3768124.5, 303.6, 303.6, 0.0);
( 464696.3, 3768124.5, 303.1, 303.1, 0.0); ( 464746.3, 3768124.5, 302.3, 302.3, 0.0);
( 464796.3, 3768124.5, 301.4, 301.4, 0.0); ( 464346.3, 3768174.5, 305.6, 305.6, 0.0);
( 464396.3, 3768174.5, 305.4, 305.4, 0.0); ( 464446.3, 3768174.5, 305.2, 305.2, 0.0);
( 464496.3, 3768174.5, 305.1, 305.1, 0.0); ( 464546.3, 3768174.5, 304.9, 304.9, 0.0);
( 464596.3, 3768174.5, 304.4, 304.4, 0.0); ( 464646.3, 3768174.5, 304.4, 304.4, 0.0);
( 464696.3, 3768174.5, 304.0, 304.0, 0.0); ( 464746.3, 3768174.5, 302.8, 302.8, 0.0);
( 464796.3, 3768174.5, 302.5, 302.5, 0.0); ( 464346.3, 3768224.5, 306.5, 306.5, 0.0);
( 464396.3, 3768224.5, 306.1, 306.1, 0.0); ( 464446.3, 3768224.5, 305.8, 305.8, 0.0);
( 464496.3, 3768224.5, 305.4, 305.4, 0.0); ( 464546.3, 3768224.5, 305.5, 305.5, 0.0);
( 464596.3, 3768224.5, 305.1, 305.1, 0.0); ( 464646.3, 3768224.5, 305.0, 305.0, 0.0);
( 464696.3, 3768224.5, 304.1, 304.1, 0.0); ( 464746.3, 3768224.5, 302.8, 302.8, 0.0);
( 464796.3, 3768224.5, 303.0, 303.0, 0.0); ( 464346.3, 3768274.5, 307.4, 307.4, 0.0);
```

Model Output - Bloomington
CWP Implementation, 2020 Vehicle Emission Factors

(464396.3, 3768274.5,	307.0,	307.0,	0.0);	(464446.3, 3768274.5,	306.8,	306.8,	0.0);
(464496.3, 3768274.5,	306.3,	306.3,	0.0);	(464546.3, 3768274.5,	305.7,	305.7,	0.0);
(464596.3, 3768274.5,	305.0,	305.0,	0.0);	(464646.3, 3768274.5,	305.5,	305.5,	0.0);
(464696.3, 3768274.5,	304.4,	305.8,	0.0);	(464746.3, 3768274.5,	303.1,	303.1,	0.0);
(464796.3, 3768274.5,	303.3,	303.3,	0.0);	(464346.3, 3768324.5,	308.2,	308.2,	0.0);
(464396.3, 3768324.5,	307.7,	307.7,	0.0);	(464446.3, 3768324.5,	307.3,	307.3,	0.0);
(464496.3, 3768324.5,	306.8,	306.8,	0.0);	(464546.3, 3768324.5,	306.3,	306.3,	0.0);
(464596.3, 3768324.5,	306.0,	306.0,	0.0);	(464646.3, 3768324.5,	306.3,	306.3,	0.0);
(464696.3, 3768324.5,	305.1,	306.5,	0.0);	(464746.3, 3768324.5,	303.5,	303.5,	0.0);
(464796.3, 3768324.5,	303.6,	303.6,	0.0);	(464346.3, 3768374.5,	308.6,	308.6,	0.0);
(464396.3, 3768374.5,	308.4,	308.4,	0.0);	(464446.3, 3768374.5,	308.0,	308.0,	0.0);
(464496.3, 3768374.5,	307.5,	307.5,	0.0);	(464546.3, 3768374.5,	307.0,	307.0,	0.0);
(464596.3, 3768374.5,	306.3,	306.3,	0.0);	(464646.3, 3768374.5,	306.9,	306.9,	0.0);
(464696.3, 3768374.5,	305.8,	305.8,	0.0);	(464746.3, 3768374.5,	306.5,	306.9,	0.0);
(464796.3, 3768374.5,	306.3,	306.6,	0.0);	(464346.3, 3768424.5,	309.4,	309.4,	0.0);
(464396.3, 3768424.5,	309.1,	309.1,	0.0);	(464646.3, 3768424.5,	306.9,	306.9,	0.0);
(464696.3, 3768424.5,	306.6,	306.6,	0.0);	(464746.3, 3768424.5,	306.5,	306.5,	0.0);
(464796.3, 3768424.5,	306.2,	306.2,	0.0);	(464346.3, 3768474.5,	309.9,	309.9,	0.0);
(464396.3, 3768474.5,	309.5,	309.5,	0.0);	(464646.3, 3768474.5,	307.6,	307.6,	0.0);
(464696.3, 3768474.5,	307.3,	307.3,	0.0);	(464746.3, 3768474.5,	307.2,	307.2,	0.0);
(464796.3, 3768474.5,	306.4,	306.4,	0.0);	(464346.3, 3768524.5,	310.4,	310.4,	0.0);
(464396.3, 3768524.5,	309.9,	309.9,	0.0);	(464646.3, 3768524.5,	308.3,	308.3,	0.0);
(464696.3, 3768524.5,	308.2,	308.2,	0.0);	(464746.3, 3768524.5,	307.7,	307.7,	0.0);
(464796.3, 3768524.5,	307.2,	307.2,	0.0);	(464346.3, 3768574.5,	310.8,	310.8,	0.0);
(464396.3, 3768574.5,	310.5,	310.5,	0.0);	(464646.3, 3768574.5,	309.1,	309.1,	0.0);
(464696.3, 3768574.5,	308.9,	308.9,	0.0);	(464746.3, 3768574.5,	308.8,	308.8,	0.0);
(464796.3, 3768574.5,	307.7,	307.7,	0.0);	(464346.3, 3768624.5,	311.5,	311.5,	0.0);
(464396.3, 3768624.5,	311.0,	311.0,	0.0);	(464646.3, 3768624.5,	309.9,	309.9,	0.0);
(464696.3, 3768624.5,	309.7,	309.7,	0.0);	(464746.3, 3768624.5,	309.2,	309.2,	0.0);
(464796.3, 3768624.5,	308.5,	308.5,	0.0);	(464346.3, 3768674.5,	312.0,	312.0,	0.0);

Model Output - Bloomington

CWP Implementation, 2020 Vehicle Emission Factors

```
*** AERMOD - VERSION 19191 ***    *** CWP Implemenation, Bloomington, 2020    ***    05/27/20
*** AERMET - VERSION 16216 ***    *** (Existing Plus Project - Existing No Project) > 100 trucks/day ***    09:43:28
***                                     ***                                     ***    PAGE 41
```

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

```
*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)
```

(464396.3, 3768674.5,	311.7,	311.7,	0.0);	(464446.3, 3768674.5,	311.3,	311.3,	0.0);
(464496.3, 3768674.5,	311.1,	311.1,	0.0);	(464546.3, 3768674.5,	311.0,	311.0,	0.0);
(464596.3, 3768674.5,	310.9,	310.9,	0.0);	(464346.3, 3768724.5,	313.7,	313.7,	0.0);
(464396.3, 3768724.5,	313.4,	313.4,	0.0);	(464446.3, 3768724.5,	313.2,	313.2,	0.0);
(464496.3, 3768724.5,	312.8,	312.8,	0.0);	(464546.3, 3768724.5,	312.6,	312.6,	0.0);
(464596.3, 3768724.5,	312.6,	312.6,	0.0);	(464346.3, 3768774.5,	313.6,	313.6,	0.0);
(464396.3, 3768774.5,	313.4,	313.4,	0.0);	(464446.3, 3768774.5,	313.1,	313.1,	0.0);
(464496.3, 3768774.5,	312.9,	312.9,	0.0);	(464546.3, 3768774.5,	312.6,	312.6,	0.0);
(464596.3, 3768774.5,	312.4,	312.4,	0.0);	(464346.3, 3768824.5,	314.0,	314.0,	0.0);
(464396.3, 3768824.5,	313.9,	313.9,	0.0);	(464446.3, 3768824.5,	313.8,	313.8,	0.0);
(464496.3, 3768824.5,	313.5,	313.5,	0.0);	(464546.3, 3768824.5,	313.2,	313.2,	0.0);
(464596.3, 3768824.5,	312.9,	312.9,	0.0);				

Model Output - Bloomington
CWP Implementation, 2020 Vehicle Emission Factors

```

*** AERMOT - VERSION 19191 *** CWP Implementation, Bloomington, 2020 *** 05/27/20
*** AERMET - VERSION 16216 *** (Existing Plus Project - Existing No Project) > 100 trucks/day *** 09:43:28
                                                                                                     PAGE 42
*** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

```

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

[illegible]

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,

Model Output - Bloomington
CWP Implementation, 2020 Vehicle Emission Factors

[illegible]

```
*** MODELOPTs:      RegDFault  CONC  ELEV  URBAN  ADJ_U*
```

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

```
Surface file:    ..\met data\FONT_v9.SFC
Profile file:    ..\met data\FONT_v9.PFL
Surface format:  FREE
Profile format:  FREE
Surface station no.:      3102
```

```
Upper air station no.:    3190
                        Name: UNKNOWN
                        Year:  2011
```

Met Version: 16216

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
11	01	01	1	01	-18.5	0.194	-9.000	-9.000	-999.	204.	41.2	0.25	2.82	1.00	1.80	69.	9.1	276.4	5.5			
11	01	01	1	02	-23.8	0.239	-9.000	-9.000	-999.	281.	63.0	0.25	2.82	1.00	2.20	52.	9.1	275.4	5.5			
11	01	01	1	03	-18.5	0.194	-9.000	-9.000	-999.	205.	41.2	0.25	2.82	1.00	1.80	32.	9.1	275.4	5.5			
11	01	01	1	04	-1.4	0.067	-9.000	-9.000	-999.	57.	18.3	0.25	2.82	1.00	0.40	27.	9.1	274.2	5.5			
11	01	01	1	05	-18.6	0.194	-9.000	-9.000	-999.	204.	41.2	0.25	2.82	1.00	1.80	51.	9.1	274.2	5.5			
11	01	01	1	06	-29.7	0.296	-9.000	-9.000	-999.	387.	96.6	0.25	2.82	1.00	2.70	53.	9.1	274.2	5.5			
11	01	01	1	07	-24.0	0.239	-9.000	-9.000	-999.	282.	63.0	0.25	2.82	1.00	2.20	70.	9.1	274.2	5.5			
11	01	01	1	08	-8.4	0.138	-9.000	-9.000	-999.	127.	27.3	0.25	2.82	0.54	1.30	72.	9.1	275.4	5.5			
11	01	01	1	09	44.3	0.280	0.571	0.005	147.	356.	-43.5	0.25	2.82	0.32	2.20	67.	9.1	277.5	5.5			
11	01	01	1	10	122.7	0.264	0.952	0.005	247.	326.	-13.2	0.25	2.82	0.25	1.80	83.	9.1	279.9	5.5			
11	01	01	1	11	179.8	0.316	1.733	0.005	1017.	426.	-15.4	0.25	2.82	0.22	2.20	58.	9.1	282.0	5.5			
11	01	01	1	12	206.0	0.320	1.940	0.008	1244.	435.	-14.0	0.25	2.82	0.21	2.20	115.	9.1	283.1	5.5			
11	01	01	1	13	132.6	0.214	1.733	0.009	1377.	243.	-6.5	0.25	2.82	0.21	1.30	147.	9.1	284.2	5.5			
11	01	01	1	14	147.0	0.216	1.818	0.009	1431.	242.	-6.0	0.25	2.82	0.23	1.30	219.	9.1	284.9	5.5			
11	01	01	1	15	104.0	0.208	1.633	0.009	1468.	228.	-7.6	0.25	2.82	0.26	1.30	126.	9.1	285.4	5.5			
11	01	01	1	16	26.4	0.140	1.037	0.009	1477.	127.	-9.1	0.25	2.82	0.35	0.90	151.	9.1	284.9	5.5			
11	01	01	1	17	-9.0	0.137	-9.000	-9.000	-999.	121.	24.9	0.25	2.82	0.63	1.30	69.	9.1	283.1	5.5			
11	01	01	1	18	-33.4	0.342	-9.000	-9.000	-999.	481.	129.0	0.25	2.82	1.00	3.10	81.	9.1	281.4	5.5			
11	01	01	1	19	-33.6	0.342	-9.000	-9.000	-999.	481.	128.9	0.25	2.82	1.00	3.10	51.	9.1	279.9	5.5			
11	01	01	1	20	-23.6	0.239	-9.000	-9.000	-999.	287.	63.1	0.25	2.82	1.00	2.20	77.	9.1	278.8	5.5			
11	01	01	1	21	-18.5	0.194	-9.000	-9.000	-999.	205.	41.2	0.25	2.82	1.00	1.80	53.	9.1	277.5	5.5			
11	01	01	1	22	-23.7	0.239	-9.000	-9.000	-999.	281.												

First hour of profile data

YR	MO	DY	HR	HEIGHT	F	WDIR	WSPD	AMB	TMP	sigmaA	sigmaW	sigmaV
11	01	01	01	5.5	0	-999.	-99.00	276.5	99.0	-99.00	-99.00	-99.00
11	01	01	01	9.1	1	69.	1.80	-999.0	99.0	-99.00	-99.00	-99.00

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

Model Output - Bloomington

CWP Implementation, 2020 Vehicle Emission Factors

*** AERMOD - VERSION 19191 *** *** CWP Implemenation, Bloomington, 2020 *** 05/27/20
*** AERMET - VERSION 16216 *** *** (Existing Plus Project - Existing No Project) > 100 trucks/day *** 09:43:28
*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U* PAGE 56

*** THE SUMMARY OF MAXIMUM PERIOD (43848 HRS) RESULTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
ALL	1ST HIGHEST VALUE IS	0.01183 AT (	463618.24, 3769882.12, 330.27, 335.16, 0.00)	DC	
	2ND HIGHEST VALUE IS	0.01129 AT (	463668.24, 3769882.12, 331.08, 331.08, 0.00)	DC	
	3RD HIGHEST VALUE IS	0.01081 AT (	463718.24, 3769882.12, 330.80, 330.80, 0.00)	DC	
	4TH HIGHEST VALUE IS	0.01032 AT (	462777.55, 3769827.14, 336.04, 336.04, 0.00)	DC	
	5TH HIGHEST VALUE IS	0.01018 AT (	463768.24, 3769882.12, 331.08, 331.08, 0.00)	DC	
	6TH HIGHEST VALUE IS	0.00977 AT (	462277.55, 3769804.84, 335.81, 335.81, 0.00)	DC	
	7TH HIGHEST VALUE IS	0.00962 AT (	462227.55, 3769804.84, 335.75, 335.75, 0.00)	DC	
	8TH HIGHEST VALUE IS	0.00947 AT (	462177.55, 3769804.84, 335.91, 335.91, 0.00)	DC	
	9TH HIGHEST VALUE IS	0.00945 AT (	462727.55, 3769827.14, 336.41, 336.41, 0.00)	DC	
	10TH HIGHEST VALUE IS	0.00936 AT (	463818.24, 3769882.12, 331.33, 331.33, 0.00)	DC	

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

Model Output - Bloomington

CWP Implementation, 2020 Vehicle Emission Factors

```
*** AERMOD - VERSION 19191 ***   *** CWP Implemenation, Bloomington, 2020   ***   05/27/20
*** AERMET - VERSION 16216 ***   *** (Existing Plus Project - Existing No Project) > 100 trucks/day ***   09:43:28
                                                                           ***   PAGE 57

*** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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

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

A Total of           0 Fatal Error Message(s)
A Total of           7 Warning Message(s)
A Total of          838 Informational Message(s)

A Total of          43848 Hours Were Processed

A Total of           40 Calm Hours Identified

A Total of           798 Missing Hours Identified ( 1.82 Percent)

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

***** WARNING MESSAGES *****
ME W186   1785   MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used           0.50
ME W187   1785   MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET
MX W438   8800   METQA: Convective Velocity Data Out-of-Range.  KURDAT =          12010216
MX W438  11536   METQA: Convective Velocity Data Out-of-Range.  KURDAT =          12042516
MX W420  16779   METQA: Wind Speed Out-of-Range.  KURDAT =          12113003
MX W450  26305   CHKDAT: Record Out of Sequence in Meteorological File at:          15010101
MX W450  26305   CHKDAT: Record Out of Sequence in Meteorological File at: 1 year gap

*****
*** AERMOD Finishes Successfully ***
*****
```

Model Output - Muscoy
CWP Implementation, 2020 Vehicle Emission Factors

```
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 9.9.0
** Lakes Environmental Software Inc.
** Date: 5/14/2020
** File: C:\!AERMOD\SBC25\ExCWP_mus\ExCWP_mus.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
  TITLEONE CWP Implementation, Muscoy
  TITLETWO (Existing Plus Project - Existing No Project) > 100 trucks/day
  MODELOPT DFAULT CONC
  AVERTIME PERIOD
  URBANOPT 2035210 San_Bernardino_County
  POLLUTID OTHER
  RUNORNOT RUN
  ERRORFIL ExCWP_mus.err
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = 1
** DESCRSRC 1st St
** PREFIX
** Length of Side = 7.00
** Configuration = Adjacent
** Emission Rate = 6.22E-06
** Vertical Dimension = 7.00
** SZINIT = 3.26
** Nodes = 2
** 468766.277, 3780057.289, 434.91, 3.50, 3.26
** 468667.005, 3779977.461, 433.71, 3.50, 3.26
** -----
** Line Source Represented by Adjacent Volume Sources
```

Model Output - Muscoy
CWP Implementation, 2020 Vehicle Emission Factors

```
** LINE VOLUME Source ID = 2
** DESCRSRC UniversityPkwy, NO Interchange
** PREFIX
** Length of Side = 20.40
** Configuration = Adjacent
** Emission Rate = 0.0000353
** Vertical Dimension = 7.00
** SZINIT = 3.26
** Nodes = 7
** 469170.022, 3780213.363, 435.97, 3.50, 9.49
** 469119.362, 3780138.524, 434.46, 3.50, 9.49
** 469098.637, 3780085.562, 434.14, 3.50, 9.49
** 469087.124, 3780048.718, 432.44, 3.50, 9.49
** 469084.821, 3780000.361, 431.54, 3.50, 9.49
** 469090.578, 3779945.095, 430.56, 3.50, 9.49
** 469117.059, 3779849.532, 430.37, 3.50, 9.49
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = 3
** DESCRSRC University, SO Interchange
** PREFIX
** Length of Side = 24.60
** Configuration = Adjacent
** Emission Rate = 0.0000485
** Vertical Dimension = 7.00
** SZINIT = 3.26
** Nodes = 7
** 469079.064, 3779209.374, 414.72, 3.50, 11.44
** 469085.972, 3779268.094, 416.31, 3.50, 11.44
** 469127.421, 3779603.141, 424.03, 3.50, 11.44
** 469141.238, 3779672.222, 427.57, 3.50, 11.44
** 469142.389, 3779711.369, 434.19, 3.50, 11.44
** 469141.238, 3779758.575, 432.99, 3.50, 11.44
** 469120.513, 3779844.927, 430.42, 3.50, 11.44
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = 4
** DESCRSRC State, NO Blake
** PREFIX
** Length of Side = 11.50
** Configuration = Adjacent
** Emission Rate = 0.0000162
** Vertical Dimension = 7.00
** SZINIT = 3.26
** Nodes = 3
** 469074.193, 3778902.477, 409.71, 3.50, 5.35
** 469074.193, 3779106.755, 412.79, 3.50, 5.35
** 469079.000, 3779201.685, 414.70, 3.50, 5.35
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = 5
```

Model Output - Muscoy
CWP Implementation, 2020 Vehicle Emission Factors

```
** DESCRSRC State, SO Blake
** PREFIX
** Length of Side = 9.60
** Configuration = Adjacent
** Emission Rate = 0.0000215
** Vertical Dimension = 7.00
** SZINIT = 3.26
** Nodes = 2
** 469072.992, 3778502.331, 403.12, 3.50, 4.47
** 469075.395, 3778898.872, 409.55, 3.50, 4.47
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = 6
** DESCRSRC 210WB, EO California
** PREFIX
** Length of Side = 25.60
** Configuration = Adjacent
** Emission Rate = 0.000134
** Vertical Dimension = 7.00
** SZINIT = 3.26
** Nodes = 6
** 469474.336, 3777231.203, 382.41, 3.50, 11.91
** 469556.904, 3777266.338, 389.78, 3.50, 11.91
** 469637.716, 3777308.501, 381.12, 3.50, 11.91
** 469711.500, 3777354.177, 388.68, 3.50, 11.91
** 469801.096, 3777431.475, 387.52, 3.50, 11.91
** 469948.664, 3777598.368, 387.93, 3.50, 11.91
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = 7
** DESCRSRC 210WB, WO California
** PREFIX
** Length of Side = 22.00
** Configuration = Adjacent
** Emission Rate = 0.000186
** Vertical Dimension = 7.00
** SZINIT = 3.26
** Nodes = 9
** 468666.221, 3777167.959, 388.48, 3.50, 10.23
** 468805.006, 3777150.391, 388.82, 3.50, 10.23
** 468942.034, 3777141.607, 389.90, 3.50, 10.23
** 469049.197, 3777138.094, 386.59, 3.50, 10.23
** 469091.360, 3777139.851, 387.96, 3.50, 10.23
** 469193.252, 3777148.634, 391.28, 3.50, 10.23
** 469289.875, 3777171.472, 391.12, 3.50, 10.23
** 469400.551, 3777201.338, 390.66, 3.50, 10.23
** 469462.039, 3777225.932, 383.95, 3.50, 10.23
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = 8
** DESCRSRC 210WB, WO Macy
```

Model Output - Muscoy
CWP Implementation, 2020 Vehicle Emission Factors

```
** PREFIX
** Length of Side = 21.70
** Configuration = Adjacent
** Emission Rate = 0.000261
** Vertical Dimension = 7.00
** SZINIT = 3.26
** Nodes = 10
** 467512.852, 3777127.694, 401.00, 3.50, 10.09
** 467605.746, 3777125.534, 399.63, 3.50, 10.09
** 467700.801, 3777127.694, 398.25, 3.50, 10.09
** 467880.110, 3777149.298, 395.29, 3.50, 10.09
** 468011.890, 3777168.741, 385.28, 3.50, 10.09
** 468117.747, 3777179.543, 391.40, 3.50, 10.09
** 468240.887, 3777179.543, 390.13, 3.50, 10.09
** 468392.111, 3777179.543, 389.61, 3.50, 10.09
** 468549.815, 3777170.901, 388.92, 3.50, 10.09
** 468657.832, 3777164.420, 388.49, 3.50, 10.09
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = 9
** DESCRSRC 210EB, WO State Offramp
** PREFIX
** Length of Side = 24.00
** Configuration = Adjacent
** Emission Rate = 0.000211
** Vertical Dimension = 7.00
** SZINIT = 3.26
** Nodes = 8
** 468452.173, 3777143.146, 388.87, 3.50, 11.16
** 468293.366, 3777150.532, 389.41, 3.50, 11.16
** 468206.576, 3777152.379, 390.10, 3.50, 11.16
** 468121.632, 3777152.379, 390.82, 3.50, 11.16
** 468058.848, 3777144.992, 384.80, 3.50, 11.16
** 467683.989, 3777098.827, 399.17, 3.50, 11.16
** 467632.285, 3777095.134, 399.86, 3.50, 11.16
** 467512.256, 3777098.827, 401.51, 3.50, 11.16
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = 10
** DESCRSRC 210EB, EO State Offramp
** PREFIX
** Length of Side = 21.00
** Configuration = Adjacent
** Emission Rate = 0.000136
** Vertical Dimension = 7.00
** SZINIT = 3.26
** Nodes = 7
** 468461.406, 3777143.146, 388.84, 3.50, 9.77
** 468629.446, 3777133.913, 388.39, 3.50, 9.77
** 468858.424, 3777117.293, 389.31, 3.50, 9.77
** 469050.470, 3777106.214, 385.24, 3.50, 9.77
```

Model Output - Muscoy
CWP Implementation, 2020 Vehicle Emission Factors

```
** 469092.941, 3777109.907, 388.72, 3.50, 9.77
** 469196.351, 3777119.140, 392.21, 3.50, 9.77
** 469272.061, 3777133.913, 392.11, 3.50, 9.77
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = 11
** DESCRSRC 210EB, EO State Onramp
** PREFIX
** Length of Side = 23.60
** Configuration = Adjacent
** Emission Rate = 0.000136
** Vertical Dimension = 7.00
** SZINIT = 3.26
** Nodes = 8
** 469286.834, 3777137.606, 392.07, 3.50, 10.98
** 469384.704, 3777163.458, 391.71, 3.50, 10.98
** 469502.886, 3777202.237, 391.13, 3.50, 10.98
** 469628.454, 3777261.328, 390.33, 3.50, 10.98
** 469724.477, 3777324.112, 387.26, 3.50, 10.98
** 469805.727, 3777394.283, 388.84, 3.50, 10.98
** 469907.290, 3777482.919, 387.86, 3.50, 10.98
** 469994.080, 3777567.862, 387.29, 3.50, 10.98
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = 12
** DESCRSRC Hallmark
** PREFIX
** Length of Side = 18.60
** Configuration = Adjacent
** Emission Rate = 0.000299
** Vertical Dimension = 7.00
** SZINIT = 3.26
** Nodes = 6
** 468570.355, 3781046.848, 454.98, 3.50, 8.65
** 468588.821, 3780958.211, 453.35, 3.50, 8.65
** 468605.440, 3780902.813, 452.22, 3.50, 8.65
** 468897.202, 3780531.648, 442.17, 3.50, 8.65
** 469104.021, 3780271.278, 436.67, 3.50, 8.65
** 469172.345, 3780221.420, 436.13, 3.50, 8.65
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = 13
** DESCRSRC Offramp
** PREFIX
** Length of Side = 7.50
** Configuration = Adjacent
** Emission Rate = 0.0000217
** Vertical Dimension = 7.00
** SZINIT = 3.26
** Nodes = 8
** 468641.227, 3777118.596, 387.55, 3.50, 3.49
```

Model Output - Muscoy
CWP Implementation, 2020 Vehicle Emission Factors

```
** 468723.116, 3777103.511, 387.38, 3.50, 3.49
** 468764.060, 3777091.299, 386.97, 3.50, 3.49
** 468802.850, 3777071.186, 386.10, 3.50, 3.49
** 468889.049, 3777010.128, 383.79, 3.50, 3.49
** 468942.205, 3776981.395, 382.25, 3.50, 3.49
** 468977.403, 3776974.212, 381.39, 3.50, 3.49
** 469052.827, 3776969.902, 380.52, 3.50, 3.49
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = 14
** DESCRSRC StateSt
** PREFIX
** Length of Side = 29.00
** Configuration = Adjacent
** Emission Rate = 4.1E-06
** Vertical Dimension = 7.00
** SZINIT = 3.26
** Nodes = 2
** 469067.912, 3777085.553, 382.21, 3.50, 13.49
** 469068.631, 3776967.747, 380.48, 3.50, 13.49
** -----
    URBANSRC ALL
    SRCGROUP ALL
SO FINISHED
**
*****
** AERMOD Receptor Pathway
*****
**
**
RE STARTING
    INCLUDED ExCWP_mus.rou
RE FINISHED
**
*****
** AERMOD Meteorology Pathway
*****
**
**
ME STARTING
    SURFFILE "..\met data\FONT_v9.SFC"
    PROFFILE "..\met data\FONT_v9.PFL"
    SURFDATA 3102 2011
    UAIRDATA 3190 2011
    SITEDATA 99999 2011
    PROFBASE 367.0 METERS
ME FINISHED
**
*****
** AERMOD Output Pathway
*****
```

Model Output - Muscoy
CWP Implementation, 2020 Vehicle Emission Factors

**
**

OU STARTING

** Auto-Generated Plotfiles

PLOTFILE PERIOD ALL ExCWP_mus.AD\PE00GALL.PLT 31

SUMMFILE ExCWP_mus.sum

OU FINISHED

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

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

A Total of	0 Fatal Error Message(s)
A Total of	2 Warning Message(s)
A Total of	0 Informational Message(s)

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

***** WARNING MESSAGES *****

ME W186	1314	MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used	0.50
ME W187	1314	MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET	

*** SETUP Finishes Successfully ***

Model Output - Muscoy

CWP Implementation, 2020 Vehicle Emission Factors

*** AERMOD - VERSION 19191 *** *** CWP Implementation, Muscoy *** 05/14/20
*** AERMET - VERSION 16216 *** *** (Existing Plus Project - Existing No Project) > 100 trucks/day *** 15:30:35
*** MODELOPTS: RegDEFAULT CONC ELEV URBAN ADJ_U* PAGE 1

*** 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 478 Source(s),
for Total of 1 Urban Area(s):
Urban Population = 2035210.0 ; 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:
ADJ_U* - Use ADJ_U* option for SBL in AERMET
TEMP_Sub - Meteorological data includes TEMP substitutions

**Model Assumes No FLAGPOLE Receptor Heights.

**The User Specified a Pollutant Type of: OTHER

**Model Calculates PERIOD Averages Only

**This Run Includes: 478 Source(s); 1 Source Group(s); and 729 Receptor(s)

with: 0 POINT(s), including
 0 POINTCAP(s) and 0 POINTHOR(s)
and: 478 VOLUME source(s)
and: 0 AREA type source(s)
and: 0 LINE source(s)
and: 0 RLINE/RLINEXT 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.

Model Output - Muscoy

CWP Implementation, 2020 Vehicle Emission Factors

**The AERMET Input Meteorological Data Version Date: 16216

**Output Options Selected:

Model Outputs Tables of PERIOD 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) = 367.00 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0
Emission Units = GRAMS/SEC ; Emission Rate Unit Factor = 0.10000E+07
Output Units = MICROGRAMS/M**3

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

**Input Runstream File: aermod.inp

**Output Print File: aermod.out

**Detailed Error/Message File: ExCWP_mus.err

**File for Summary of Results: ExCWP_mus.sum

Model Output - Muscoy

CWP Implementation, 2020 Vehicle Emission Factors

*** AERMOD - VERSION 19191 *** *** CWP Implementation, Muscoy *** 05/14/20
 *** AERMET - VERSION 16216 *** *** (Existing Plus Project - Existing No Project) > 100 trucks/day *** 15:30:35
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*** MODELOPTS: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0000001	0	0.34560E-06	468763.5	3780055.1	434.9	3.50	3.26	3.26	YES	
L0000002	0	0.34560E-06	468758.1	3780050.7	434.7	3.50	3.26	3.26	YES	
L0000003	0	0.34560E-06	468752.6	3780046.3	434.7	3.50	3.26	3.26	YES	
L0000004	0	0.34560E-06	468747.2	3780041.9	434.7	3.50	3.26	3.26	YES	
L0000005	0	0.34560E-06	468741.7	3780037.5	434.6	3.50	3.26	3.26	YES	
L0000006	0	0.34560E-06	468736.3	3780033.2	434.4	3.50	3.26	3.26	YES	
L0000007	0	0.34560E-06	468730.8	3780028.8	434.2	3.50	3.26	3.26	YES	
L0000008	0	0.34560E-06	468725.4	3780024.4	434.1	3.50	3.26	3.26	YES	
L0000009	0	0.34560E-06	468719.9	3780020.0	434.0	3.50	3.26	3.26	YES	
L0000010	0	0.34560E-06	468714.5	3780015.6	434.0	3.50	3.26	3.26	YES	
L0000011	0	0.34560E-06	468709.0	3780011.2	433.9	3.50	3.26	3.26	YES	
L0000012	0	0.34560E-06	468703.5	3780006.8	433.9	3.50	3.26	3.26	YES	
L0000013	0	0.34560E-06	468698.1	3780002.5	433.8	3.50	3.26	3.26	YES	
L0000014	0	0.34560E-06	468692.6	3779998.1	433.8	3.50	3.26	3.26	YES	
L0000015	0	0.34560E-06	468687.2	3779993.7	433.8	3.50	3.26	3.26	YES	
L0000016	0	0.34560E-06	468681.7	3779989.3	433.8	3.50	3.26	3.26	YES	
L0000017	0	0.34560E-06	468676.3	3779984.9	433.8	3.50	3.26	3.26	YES	
L0000018	0	0.34560E-06	468670.8	3779980.5	433.8	3.50	3.26	3.26	YES	
L0000019	0	0.18580E-05	469164.3	3780204.9	435.7	3.50	9.49	3.26	YES	
L0000020	0	0.18580E-05	469152.9	3780188.0	435.4	3.50	9.49	3.26	YES	
L0000021	0	0.18580E-05	469141.4	3780171.1	435.1	3.50	9.49	3.26	YES	
L0000022	0	0.18580E-05	469130.0	3780154.2	434.8	3.50	9.49	3.26	YES	
L0000023	0	0.18580E-05	469118.8	3780137.2	434.5	3.50	9.49	3.26	YES	
L0000024	0	0.18580E-05	469111.4	3780118.2	434.3	3.50	9.49	3.26	YES	
L0000025	0	0.18580E-05	469104.0	3780099.2	434.1	3.50	9.49	3.26	YES	
L0000026	0	0.18580E-05	469096.9	3780080.1	433.6	3.50	9.49	3.26	YES	
L0000027	0	0.18580E-05	469090.8	3780060.6	432.8	3.50	9.49	3.26	YES	
L0000028	0	0.18580E-05	469086.7	3780040.8	432.3	3.50	9.49	3.26	YES	
L0000029	0	0.18580E-05	469085.8	3780020.4	431.9	3.50	9.49	3.26	YES	
L0000030	0	0.18580E-05	469084.9	3780000.0	431.5	3.50	9.49	3.26	YES	
L0000031	0	0.18580E-05	469087.0	3779979.7	431.4	3.50	9.49	3.26	YES	
L0000032	0	0.18580E-05	469089.1	3779959.4	430.9	3.50	9.49	3.26	YES	
L0000033	0	0.18580E-05	469092.2	3779939.3	430.5	3.50	9.49	3.26	YES	
L0000034	0	0.18580E-05	469097.6	3779919.7	430.3	3.50	9.49	3.26	YES	
L0000035	0	0.18580E-05	469103.1	3779900.0	430.1	3.50	9.49	3.26	YES	
L0000036	0	0.18580E-05	469108.5	3779880.4	430.1	3.50	9.49	3.26	YES	
L0000037	0	0.18580E-05	469114.0	3779860.7	430.2	3.50	9.49	3.26	YES	
L0000038	0	0.18650E-05	469080.5	3779221.6	415.1	3.50	11.44	3.26	YES	

Model Output - Muscoy
CWP Implementation, 2020 Vehicle Emission Factors

L00000039	0	0.18650E-05	469083.4	3779246.0	415.7	3.50	11.44	3.26	YES	
L00000040	0	0.18650E-05	469086.3	3779270.5	416.6	3.50	11.44	3.26	YES	
*** AERMAD - VERSION	19191	***	*** CWP Implementation, Muscoy							***
*** AERMET - VERSION	16216	***	*** (Existing Plus Project - Existing No Project) > 100 trucks/day							***

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*** MODELOPTs:      RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER	EMISSION RATE			BASE	RELEASE	INIT.	INIT.	URBAN	EMISSION RATE
	PART. CATS.	(GRAMS/SEC)	X (METERS)	Y (METERS)	ELEV. (METERS)	HEIGHT (METERS)	SY (METERS)	SZ (METERS)	SOURCE	SCALAR VARY BY
L0000041	0	0.18650E-05	469089.3	3779294.9	417.5	3.50	11.44	3.26	YES	
L0000042	0	0.18650E-05	469092.3	3779319.3	418.6	3.50	11.44	3.26	YES	
L0000043	0	0.18650E-05	469095.3	3779343.7	419.4	3.50	11.44	3.26	YES	
L0000044	0	0.18650E-05	469098.3	3779368.1	418.7	3.50	11.44	3.26	YES	
L0000045	0	0.18650E-05	469101.4	3779392.5	419.4	3.50	11.44	3.26	YES	
L0000046	0	0.18650E-05	469104.4	3779416.9	420.1	3.50	11.44	3.26	YES	
L0000047	0	0.18650E-05	469107.4	3779441.3	420.5	3.50	11.44	3.26	YES	
L0000048	0	0.18650E-05	469110.4	3779465.8	421.0	3.50	11.44	3.26	YES	
L0000049	0	0.18650E-05	469113.4	3779490.2	421.9	3.50	11.44	3.26	YES	
L0000050	0	0.18650E-05	469116.5	3779514.6	422.4	3.50	11.44	3.26	YES	
L0000051	0	0.18650E-05	469119.5	3779539.0	422.8	3.50	11.44	3.26	YES	
L0000052	0	0.18650E-05	469122.5	3779563.4	423.4	3.50	11.44	3.26	YES	
L0000053	0	0.18650E-05	469125.5	3779587.8	423.7	3.50	11.44	3.26	YES	
L0000054	0	0.18650E-05	469129.2	3779612.1	424.2	3.50	11.44	3.26	YES	
L0000055	0	0.18650E-05	469134.0	3779636.3	425.1	3.50	11.44	3.26	YES	
L0000056	0	0.18650E-05	469138.9	3779660.4	425.2	3.50	11.44	3.26	YES	
L0000057	0	0.18650E-05	469141.6	3779684.7	431.6	3.50	11.44	3.26	YES	
L0000058	0	0.18650E-05	469142.3	3779709.3	434.3	3.50	11.44	3.26	YES	
L0000059	0	0.18650E-05	469141.8	3779733.9	433.7	3.50	11.44	3.26	YES	
L0000060	0	0.18650E-05	469141.2	3779758.5	432.9	3.50	11.44	3.26	YES	
L0000061	0	0.18650E-05	469135.5	3779782.4	432.2	3.50	11.44	3.26	YES	
L0000062	0	0.18650E-05	469129.8	3779806.4	431.5	3.50	11.44	3.26	YES	
L0000063	0	0.18650E-05	469124.0	3779830.3	430.8	3.50	11.44	3.26	YES	
L0000064	0	0.62310E-06	469074.2	3778908.2	409.8	3.50	5.35	3.26	YES	
L0000065	0	0.62310E-06	469074.2	3778919.7	410.1	3.50	5.35	3.26	YES	
L0000066	0	0.62310E-06	469074.2	3778931.2	410.3	3.50	5.35	3.26	YES	
L0000067	0	0.62310E-06	469074.2	3778942.7	410.5	3.50	5.35	3.26	YES	
L0000068	0	0.62310E-06	469074.2	3778954.2	410.7	3.50	5.35	3.26	YES	
L0000069	0	0.62310E-06	469074.2	3778965.7	410.8	3.50	5.35	3.26	YES	
L0000070	0	0.62310E-06	469074.2	3778977.2	411.0	3.50	5.35	3.26	YES	
L0000071	0	0.62310E-06	469074.2	3778988.7	411.2	3.50	5.35	3.26	YES	
L0000072	0	0.62310E-06	469074.2	3779000.2	411.4	3.50	5.35	3.26	YES	
L0000073	0	0.62310E-06	469074.2	3779011.7	411.6	3.50	5.35	3.26	YES	
L0000074	0	0.62310E-06	469074.2	3779023.2	411.7	3.50	5.35	3.26	YES	
L0000075	0	0.62310E-06	469074.2	3779034.7	411.8	3.50	5.35	3.26		

Model Output - Muscoy

CWP Implementation, 2020 Vehicle Emission Factors

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L0000077      0  0.62310E-06 469074.2 3779057.7 412.1      3.50      5.35      3.26      YES
L0000078      0  0.62310E-06 469074.2 3779069.2 412.3      3.50      5.35      3.26      YES
L0000079      0  0.62310E-06 469074.2 3779080.7 412.4      3.50      5.35      3.26      YES
L0000080      0  0.62310E-06 469074.2 3779092.2 412.6      3.50      5.35      3.26      YES
*** AERMOD - VERSION 19191 *** *** CWP Implementation, Muscoy ***
*** AERMET - VERSION 16216 *** *** (Existing Plus Project - Existing No Project) > 100 trucks/day ***
*** MODELOPTs:      RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0000081	0	0.62310E-06	469074.2	3779103.7	412.8	3.50	5.35	3.26	YES	
L0000082	0	0.62310E-06	469074.6	3779115.2	413.0	3.50	5.35	3.26	YES	
L0000083	0	0.62310E-06	469075.2	3779126.7	413.2	3.50	5.35	3.26	YES	
L0000084	0	0.62310E-06	469075.8	3779138.2	413.4	3.50	5.35	3.26	YES	
L0000085	0	0.62310E-06	469076.4	3779149.7	413.6	3.50	5.35	3.26	YES	
L0000086	0	0.62310E-06	469076.9	3779161.2	413.8	3.50	5.35	3.26	YES	
L0000087	0	0.62310E-06	469077.5	3779172.6	414.0	3.50	5.35	3.26	YES	
L0000088	0	0.62310E-06	469078.1	3779184.1	414.3	3.50	5.35	3.26	YES	
L0000089	0	0.62310E-06	469078.7	3779195.6	414.6	3.50	5.35	3.26	YES	
L0000090	0	0.52440E-06	469073.0	3778507.1	403.2	3.50	4.47	3.26	YES	
L0000091	0	0.52440E-06	469073.1	3778516.7	403.4	3.50	4.47	3.26	YES	
L0000092	0	0.52440E-06	469073.1	3778526.3	403.5	3.50	4.47	3.26	YES	
L0000093	0	0.52440E-06	469073.2	3778535.9	403.7	3.50	4.47	3.26	YES	
L0000094	0	0.52440E-06	469073.3	3778545.5	403.8	3.50	4.47	3.26	YES	
L0000095	0	0.52440E-06	469073.3	3778555.1	404.0	3.50	4.47	3.26	YES	
L0000096	0	0.52440E-06	469073.4	3778564.7	404.2	3.50	4.47	3.26	YES	
L0000097	0	0.52440E-06	469073.4	3778574.3	404.3	3.50	4.47	3.26	YES	
L0000098	0	0.52440E-06	469073.5	3778583.9	404.5	3.50	4.47	3.26	YES	
L0000099	0	0.52440E-06	469073.5	3778593.5	404.7	3.50	4.47	3.26	YES	
L0000100	0	0.52440E-06	469073.6	3778603.1	404.9	3.50	4.47	3.26	YES	
L0000101	0	0.52440E-06	469073.7	3778612.7	405.1	3.50	4.47	3.26	YES	
L0000102	0	0.52440E-06	469073.7	3778622.3	405.2	3.50	4.47	3.26	YES	
L0000103	0	0.52440E-06	469073.8	3778631.9	405.4	3.50	4.47	3.26	YES	
L0000104	0	0.52440E-06	469073.8	3778641.5	405.6	3.50	4.47	3.26	YES	
L0000105	0	0.52440E-06	469073.9	3778651.1	405.8	3.50	4.47	3.26	YES	
L0000106	0	0.52440E-06	469074.0	3778660.7	406.0	3.50	4.47	3.26	YES	
L0000107	0	0.52440E-06	469074.0	3778670.3	406.2	3.50	4.47	3.26	YES	
L0000108	0	0.52440E-06	469074.1	3778679.9	406.4	3.50	4.47	3.26	YES	
L0000109	0	0.52440E-06	469074.1	3778689.5	406.5	3.50	4.47	3.26	YES	
L0000110	0	0.52440E-06	469074.2	3778699.1	406.6	3.50	4.47	3.26	YES	
L0000111	0	0.52440E-06	469074.2	3778708.7	406.8	3.50	4.47	3.26	YES	
L0000112	0	0.52440E-06	469074.3	3778718.3	406.9	3.50	4.47	3.26	YES	
L0000113	0	0.52440E-06	469074.4	3778727.9	407.1	3.50	4.47	3.26	YES	
L0000114	0	0.52440E-06	469074.4	3778737.5	407.2	3.50	4.47	3.26	YES	

Model Output - Muscoy

CWP Implementation, 2020 Vehicle Emission Factors

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L0000115      0  0.52440E-06 469074.5 3778747.1 407.3 3.50 4.47 3.26 YES
L0000116      0  0.52440E-06 469074.5 3778756.7 407.5 3.50 4.47 3.26 YES
L0000117      0  0.52440E-06 469074.6 3778766.3 407.6 3.50 4.47 3.26 YES
L0000118      0  0.52440E-06 469074.6 3778775.9 407.7 3.50 4.47 3.26 YES
L0000119      0  0.52440E-06 469074.7 3778785.5 407.9 3.50 4.47 3.26 YES
L0000120      0  0.52440E-06 469074.8 3778795.1 408.0 3.50 4.47 3.26 YES
*** AERMOD - VERSION 19191 *** *** CWP Implementation, Muscoy ***
*** AERMET - VERSION 16216 *** *** (Existing Plus Project - Existing No Project) > 100 trucks/day ***
*** MODELOPTs:      RegDFAULT CONC ELEV URBAN ADJ_U*

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*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0000121	0	0.52440E-06	469074.8	3778804.7	408.2	3.50	4.47	3.26	YES	
L0000122	0	0.52440E-06	469074.9	3778814.3	408.3	3.50	4.47	3.26	YES	
L0000123	0	0.52440E-06	469074.9	3778823.9	408.4	3.50	4.47	3.26	YES	
L0000124	0	0.52440E-06	469075.0	3778833.5	408.6	3.50	4.47	3.26	YES	
L0000125	0	0.52440E-06	469075.1	3778843.1	408.7	3.50	4.47	3.26	YES	
L0000126	0	0.52440E-06	469075.1	3778852.7	408.8	3.50	4.47	3.26	YES	
L0000127	0	0.52440E-06	469075.2	3778862.3	409.0	3.50	4.47	3.26	YES	
L0000128	0	0.52440E-06	469075.2	3778871.9	409.2	3.50	4.47	3.26	YES	
L0000129	0	0.52440E-06	469075.3	3778881.5	409.4	3.50	4.47	3.26	YES	
L0000130	0	0.52440E-06	469075.3	3778891.1	409.5	3.50	4.47	3.26	YES	
L0000131	0	0.55830E-05	469486.1	3777236.2	386.0	3.50	11.91	3.26	YES	
L0000132	0	0.55830E-05	469509.7	3777246.2	389.8	3.50	11.91	3.26	YES	
L0000133	0	0.55830E-05	469533.2	3777256.3	389.7	3.50	11.91	3.26	YES	
L0000134	0	0.55830E-05	469556.8	3777266.3	389.5	3.50	11.91	3.26	YES	
L0000135	0	0.55830E-05	469579.5	3777278.1	387.2	3.50	11.91	3.26	YES	
L0000136	0	0.55830E-05	469602.2	3777290.0	382.2	3.50	11.91	3.26	YES	
L0000137	0	0.55830E-05	469624.9	3777301.8	381.3	3.50	11.91	3.26	YES	
L0000138	0	0.55830E-05	469647.2	3777314.4	381.0	3.50	11.91	3.26	YES	
L0000139	0	0.55830E-05	469668.9	3777327.8	386.6	3.50	11.91	3.26	YES	
L0000140	0	0.55830E-05	469690.7	3777341.3	388.7	3.50	11.91	3.26	YES	
L0000141	0	0.55830E-05	469712.4	3777354.9	388.6	3.50	11.91	3.26	YES	
L0000142	0	0.55830E-05	469731.7	3777371.6	388.3	3.50	11.91	3.26	YES	
L0000143	0	0.55830E-05	469751.1	3777388.4	388.0	3.50	11.91	3.26	YES	
L0000144	0	0.55830E-05	469770.5	3777405.1	387.8	3.50	11.91	3.26	YES	
L0000145	0	0.55830E-05	469789.9	3777421.8	387.6	3.50	11.91	3.26	YES	
L0000146	0	0.55830E-05	469808.3	3777439.6	387.4	3.50	11.91	3.26	YES	
L0000147	0	0.55830E-05	469825.2	3777458.8	387.1	3.50	11.91	3.26	YES	
L0000148	0	0.55830E-05	469842.2	3777477.9	386.8	3.50	11.91	3.26	YES	
L0000149	0	0.55830E-05	469859.1	3777497.1	386.7	3.50	11.91	3.26	YES	
L0000150	0	0.55830E-05	469876.1	3777516.3	386.7	3.50	11.91	3.26	YES	
L0000151	0	0.55830E-05	469893.0	3777535.5	386.8	3.50	11.91	3.26	YES	
L0000152	0	0.55830E-05	469910.0	3777554.6	387.1	3.50	11.91	3.26	YES	

Model Output - Muscoy

CWP Implementation, 2020 Vehicle Emission Factors

L0000153	0	0.55830E-05	469927.0	3777573.8	387.4	3.50	11.91	3.26	YES
L0000154	0	0.55830E-05	469943.9	3777593.0	387.8	3.50	11.91	3.26	YES
L0000155	0	0.50270E-05	468677.1	3777166.6	388.3	3.50	10.23	3.26	YES
L0000156	0	0.50270E-05	468699.0	3777163.8	388.3	3.50	10.23	3.26	YES
L0000157	0	0.50270E-05	468720.8	3777161.1	388.4	3.50	10.23	3.26	YES
L0000158	0	0.50270E-05	468742.6	3777158.3	388.5	3.50	10.23	3.26	YES
L0000159	0	0.50270E-05	468764.4	3777155.5	388.6	3.50	10.23	3.26	YES
L0000160	0	0.50270E-05	468786.3	3777152.8	388.7	3.50	10.23	3.26	YES
*** AERMOD - VERSION	19191	***	*** CWP Implementation, Muscoy						***
*** AERMET - VERSION	16216	***	*** (Existing Plus Project - Existing No Project) > 100 trucks/day						***

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0000161	0	0.50270E-05	468808.1	3777150.2	388.8	3.50	10.23	3.26	YES	
L0000162	0	0.50270E-05	468830.1	3777148.8	389.0	3.50	10.23	3.26	YES	
L0000163	0	0.50270E-05	468852.0	3777147.4	389.1	3.50	10.23	3.26	YES	
L0000164	0	0.50270E-05	468874.0	3777146.0	389.3	3.50	10.23	3.26	YES	
L0000165	0	0.50270E-05	468895.9	3777144.6	389.5	3.50	10.23	3.26	YES	
L0000166	0	0.50270E-05	468917.9	3777143.2	389.7	3.50	10.23	3.26	YES	
L0000167	0	0.50270E-05	468939.8	3777141.7	389.9	3.50	10.23	3.26	YES	
L0000168	0	0.50270E-05	468961.8	3777141.0	390.0	3.50	10.23	3.26	YES	
L0000169	0	0.50270E-05	468983.8	3777140.2	390.1	3.50	10.23	3.26	YES	
L0000170	0	0.50270E-05	469005.8	3777139.5	390.3	3.50	10.23	3.26	YES	
L0000171	0	0.50270E-05	469027.8	3777138.8	390.5	3.50	10.23	3.26	YES	
L0000172	0	0.50270E-05	469049.8	3777138.1	386.1	3.50	10.23	3.26	YES	
L0000173	0	0.50270E-05	469071.8	3777139.0	382.9	3.50	10.23	3.26	YES	
L0000174	0	0.50270E-05	469093.7	3777140.1	387.9	3.50	10.23	3.26	YES	
L0000175	0	0.50270E-05	469115.6	3777141.9	391.0	3.50	10.23	3.26	YES	
L0000176	0	0.50270E-05	469137.6	3777143.8	391.1	3.50	10.23	3.26	YES	
L0000177	0	0.50270E-05	469159.5	3777145.7	391.2	3.50	10.23	3.26	YES	
L0000178	0	0.50270E-05	469181.4	3777147.6	391.3	3.50	10.23	3.26	YES	
L0000179	0	0.50270E-05	469203.1	3777151.0	391.3	3.50	10.23	3.26	YES	
L0000180	0	0.50270E-05	469224.5	3777156.0	391.2	3.50	10.23	3.26	YES	
L0000181	0	0.50270E-05	469245.9	3777161.1	391.2	3.50	10.23	3.26	YES	
L0000182	0	0.50270E-05	469267.3	3777166.1	391.1	3.50	10.23	3.26	YES	
L0000183	0	0.50270E-05	469288.7	3777171.2	391.1	3.50	10.23	3.26	YES	
L0000184	0	0.50270E-05	469310.0	3777176.9	391.0	3.50	10.23	3.26	YES	
L0000185	0	0.50270E-05	469331.2	3777182.6	390.9	3.50	10.23	3.26	YES	
L0000186	0	0.50270E-05	469352.5	3777188.4	390.9	3.50	10.23	3.26	YES	
L0000187	0	0.50270E-05	469373.7	3777194.1	390.8	3.50	10.23	3.26	YES	
L0000188	0	0.50270E-05	469394.9	3777199.8	390.7	3.50	10.23	3.26	YES	
L0000189	0	0.50270E-05	469415.6	3777207.3	390.5	3.50	10.23	3.26	YES	
L0000190	0	0.50270E-05	469436.0	3777215.5	390.4	3.50	10.23	3.26	YES	

Model Output - Muscoy

CWP Implementation, 2020 Vehicle Emission Factors

L0000191	0	0.50270E-05	469456.4	3777223.7	386.6	3.50	10.23	3.26	YES
L0000192	0	0.49250E-05	467523.7	3777127.4	400.7	3.50	10.09	3.26	YES
L0000193	0	0.49250E-05	467545.4	3777126.9	400.4	3.50	10.09	3.26	YES
L0000194	0	0.49250E-05	467567.1	3777126.4	400.1	3.50	10.09	3.26	YES
L0000195	0	0.49250E-05	467588.8	3777125.9	399.8	3.50	10.09	3.26	YES
L0000196	0	0.49250E-05	467610.5	3777125.6	399.5	3.50	10.09	3.26	YES
L0000197	0	0.49250E-05	467632.2	3777126.1	399.2	3.50	10.09	3.26	YES
L0000198	0	0.49250E-05	467653.9	3777126.6	398.9	3.50	10.09	3.26	YES
L0000199	0	0.49250E-05	467675.6	3777127.1	398.5	3.50	10.09	3.26	YES
L0000200	0	0.49250E-05	467697.3	3777127.6	398.2	3.50	10.09	3.26	YES

*** AERMOD - VERSION 19191 *** *** CWP Implementation, Muscoy ***
 *** AERMET - VERSION 16216 *** *** (Existing Plus Project - Existing No Project) > 100 trucks/day ***

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0000201	0	0.49250E-05	467718.8	3777129.9	397.9	3.50	10.09	3.26	YES	
L0000202	0	0.49250E-05	467740.4	3777132.5	397.5	3.50	10.09	3.26	YES	
L0000203	0	0.49250E-05	467761.9	3777135.1	397.1	3.50	10.09	3.26	YES	
L0000204	0	0.49250E-05	467783.5	3777137.7	396.7	3.50	10.09	3.26	YES	
L0000205	0	0.49250E-05	467805.0	3777140.2	396.3	3.50	10.09	3.26	YES	
L0000206	0	0.49250E-05	467826.5	3777142.8	396.0	3.50	10.09	3.26	YES	
L0000207	0	0.49250E-05	467848.1	3777145.4	395.8	3.50	10.09	3.26	YES	
L0000208	0	0.49250E-05	467869.6	3777148.0	395.4	3.50	10.09	3.26	YES	
L0000209	0	0.49250E-05	467891.1	3777150.9	395.2	3.50	10.09	3.26	YES	
L0000210	0	0.49250E-05	467912.6	3777154.1	394.9	3.50	10.09	3.26	YES	
L0000211	0	0.49250E-05	467934.1	3777157.3	390.5	3.50	10.09	3.26	YES	
L0000212	0	0.49250E-05	467955.5	3777160.4	385.5	3.50	10.09	3.26	YES	
L0000213	0	0.49250E-05	467977.0	3777163.6	385.6	3.50	10.09	3.26	YES	
L0000214	0	0.49250E-05	467998.5	3777166.8	385.6	3.50	10.09	3.26	YES	
L0000215	0	0.49250E-05	468020.0	3777169.6	385.1	3.50	10.09	3.26	YES	
L0000216	0	0.49250E-05	468041.6	3777171.8	385.0	3.50	10.09	3.26	YES	
L0000217	0	0.49250E-05	468063.2	3777174.0	384.9	3.50	10.09	3.26	YES	
L0000218	0	0.49250E-05	468084.8	3777176.2	386.6	3.50	10.09	3.26	YES	
L0000219	0	0.49250E-05	468106.3	3777178.4	391.5	3.50	10.09	3.26	YES	
L0000220	0	0.49250E-05	468128.0	3777179.5	391.4	3.50	10.09	3.26	YES	
L0000221	0	0.49250E-05	468149.7	3777179.5	391.1	3.50	10.09	3.26	YES	
L0000222	0	0.49250E-05	468171.4	3777179.5	390.9	3.50	10.09	3.26	YES	
L0000223	0	0.49250E-05	468193.1	3777179.5	390.7	3.50	10.09	3.26	YES	
L0000224	0	0.49250E-05	468214.8	3777179.5	390.5	3.50	10.09	3.26	YES	
L0000225	0	0.49250E-05	468236.5	3777179.5	390.4	3.50	10.09	3.26	YES	
L0000226	0	0.49250E-05	468258.2	3777179.5	390.2	3.50	10.09	3.26	YES	
L0000227	0	0.49250E-05	468279.9	3777179.5	390.1	3.50	10.09	3.26	YES	
L0000228	0	0.49250E-05	468301.6	3777179.5	390.0	3.50	10.09	3.26	YES	

Model Output - Muscoy

CWP Implementation, 2020 Vehicle Emission Factors

L0000229	0	0.49250E-05	468323.3	3777179.5	390.0	3.50	10.09	3.26	YES
L0000230	0	0.49250E-05	468345.0	3777179.5	389.9	3.50	10.09	3.26	YES
L0000231	0	0.49250E-05	468366.7	3777179.5	389.8	3.50	10.09	3.26	YES
L0000232	0	0.49250E-05	468388.4	3777179.5	389.8	3.50	10.09	3.26	YES
L0000233	0	0.49250E-05	468410.1	3777178.6	389.7	3.50	10.09	3.26	YES
L0000234	0	0.49250E-05	468431.7	3777177.4	389.7	3.50	10.09	3.26	YES
L0000235	0	0.49250E-05	468453.4	3777176.2	389.6	3.50	10.09	3.26	YES
L0000236	0	0.49250E-05	468475.1	3777175.0	389.4	3.50	10.09	3.26	YES
L0000237	0	0.49250E-05	468496.7	3777173.8	389.3	3.50	10.09	3.26	YES
L0000238	0	0.49250E-05	468518.4	3777172.6	389.1	3.50	10.09	3.26	YES
L0000239	0	0.49250E-05	468540.1	3777171.4	389.0	3.50	10.09	3.26	YES
L0000240	0	0.49250E-05	468561.7	3777170.2	388.8	3.50	10.09	3.26	YES

*** AERMOD - VERSION 19191 *** *** CWP Implementation, Muscoy ***

*** AERMET - VERSION 16216 *** *** (Existing Plus Project - Existing No Project) > 100 trucks/day ***

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0000241	0	0.49250E-05	468583.4	3777168.9	388.7	3.50	10.09	3.26	YES	
L0000242	0	0.49250E-05	468605.0	3777167.6	388.6	3.50	10.09	3.26	YES	
L0000243	0	0.49250E-05	468626.7	3777166.3	388.5	3.50	10.09	3.26	YES	
L0000244	0	0.49250E-05	468648.4	3777165.0	388.4	3.50	10.09	3.26	YES	
L0000245	0	0.54100E-05	468440.2	3777143.7	389.0	3.50	11.16	3.26	YES	
L0000246	0	0.54100E-05	468416.2	3777144.8	389.0	3.50	11.16	3.26	YES	
L0000247	0	0.54100E-05	468392.2	3777145.9	389.1	3.50	11.16	3.26	YES	
L0000248	0	0.54100E-05	468368.3	3777147.0	389.2	3.50	11.16	3.26	YES	
L0000249	0	0.54100E-05	468344.3	3777148.2	389.3	3.50	11.16	3.26	YES	
L0000250	0	0.54100E-05	468320.3	3777149.3	389.2	3.50	11.16	3.26	YES	
L0000251	0	0.54100E-05	468296.3	3777150.4	389.3	3.50	11.16	3.26	YES	
L0000252	0	0.54100E-05	468272.3	3777151.0	389.4	3.50	11.16	3.26	YES	
L0000253	0	0.54100E-05	468248.4	3777151.5	389.6	3.50	11.16	3.26	YES	
L0000254	0	0.54100E-05	468224.4	3777152.0	390.2	3.50	11.16	3.26	YES	
L0000255	0	0.54100E-05	468200.4	3777152.4	390.1	3.50	11.16	3.26	YES	
L0000256	0	0.54100E-05	468176.4	3777152.4	390.3	3.50	11.16	3.26	YES	
L0000257	0	0.54100E-05	468152.4	3777152.4	390.6	3.50	11.16	3.26	YES	
L0000258	0	0.54100E-05	468128.4	3777152.4	390.9	3.50	11.16	3.26	YES	
L0000259	0	0.54100E-05	468104.5	3777150.4	387.3	3.50	11.16	3.26	YES	
L0000260	0	0.54100E-05	468080.6	3777147.6	384.6	3.50	11.16	3.26	YES	
L0000261	0	0.54100E-05	468056.8	3777144.7	384.9	3.50	11.16	3.26	YES	
L0000262	0	0.54100E-05	468033.0	3777141.8	385.1	3.50	11.16	3.26	YES	
L0000263	0	0.54100E-05	468009.2	3777138.9	385.3	3.50	11.16	3.26	YES	
L0000264	0	0.54100E-05	467985.4	3777135.9	385.4	3.50	11.16	3.26	YES	
L0000265	0	0.54100E-05	467961.5	3777133.0	386.4	3.50	11.16	3.26	YES	
L0000266	0	0.54100E-05	467937.7	3777130.1	393.4	3.50	11.16	3.26	YES	

Model Output - Muscoy

CWP Implementation, 2020 Vehicle Emission Factors

L0000267	0	0.54100E-05	467913.9	3777127.1	394.6	3.50	11.16	3.26	YES	
L0000268	0	0.54100E-05	467890.1	3777124.2	395.0	3.50	11.16	3.26	YES	
L0000269	0	0.54100E-05	467866.3	3777121.3	395.5	3.50	11.16	3.26	YES	
L0000270	0	0.54100E-05	467842.4	3777118.3	396.1	3.50	11.16	3.26	YES	
L0000271	0	0.54100E-05	467818.6	3777115.4	396.6	3.50	11.16	3.26	YES	
L0000272	0	0.54100E-05	467794.8	3777112.5	397.0	3.50	11.16	3.26	YES	
L0000273	0	0.54100E-05	467771.0	3777109.5	397.5	3.50	11.16	3.26	YES	
L0000274	0	0.54100E-05	467747.2	3777106.6	397.9	3.50	11.16	3.26	YES	
L0000275	0	0.54100E-05	467723.3	3777103.7	398.4	3.50	11.16	3.26	YES	
L0000276	0	0.54100E-05	467699.5	3777100.7	398.8	3.50	11.16	3.26	YES	
L0000277	0	0.54100E-05	467675.7	3777098.2	399.2	3.50	11.16	3.26	YES	
L0000278	0	0.54100E-05	467651.7	3777096.5	399.5	3.50	11.16	3.26	YES	
L0000279	0	0.54100E-05	467627.8	3777095.3	399.9	3.50	11.16	3.26	YES	
L0000280	0	0.54100E-05	467603.8	3777096.0	400.2	3.50	11.16	3.26	YES	
*** AERMOD - VERSION	19191	***	*** CWP Implementation, Muscoy							***
*** AERMET - VERSION	16216	***	*** (Existing Plus Project - Existing No Project) > 100 trucks/day							***

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0000281	0	0.54100E-05	467579.8	3777096.7	400.5	3.50	11.16	3.26	YES	
L0000282	0	0.54100E-05	467555.8	3777097.5	400.9	3.50	11.16	3.26	YES	
L0000283	0	0.54100E-05	467531.8	3777098.2	401.2	3.50	11.16	3.26	YES	
L0000284	0	0.34870E-05	468471.9	3777142.6	388.9	3.50	9.77	3.26	YES	
L0000285	0	0.34870E-05	468492.9	3777141.4	388.8	3.50	9.77	3.26	YES	
L0000286	0	0.34870E-05	468513.8	3777140.3	388.8	3.50	9.77	3.26	YES	
L0000287	0	0.34870E-05	468534.8	3777139.1	388.7	3.50	9.77	3.26	YES	
L0000288	0	0.34870E-05	468555.8	3777138.0	388.7	3.50	9.77	3.26	YES	
L0000289	0	0.34870E-05	468576.7	3777136.8	388.6	3.50	9.77	3.26	YES	
L0000290	0	0.34870E-05	468597.7	3777135.7	388.6	3.50	9.77	3.26	YES	
L0000291	0	0.34870E-05	468618.7	3777134.5	388.5	3.50	9.77	3.26	YES	
L0000292	0	0.34870E-05	468639.6	3777133.2	388.4	3.50	9.77	3.26	YES	
L0000293	0	0.34870E-05	468660.6	3777131.7	388.4	3.50	9.77	3.26	YES	
L0000294	0	0.34870E-05	468681.5	3777130.1	388.4	3.50	9.77	3.26	YES	
L0000295	0	0.34870E-05	468702.5	3777128.6	388.4	3.50	9.77	3.26	YES	
L0000296	0	0.34870E-05	468723.4	3777127.1	388.4	3.50	9.77	3.26	YES	
L0000297	0	0.34870E-05	468744.3	3777125.6	388.5	3.50	9.77	3.26	YES	
L0000298	0	0.34870E-05	468765.3	3777124.1	388.6	3.50	9.77	3.26	YES	
L0000299	0	0.34870E-05	468786.2	3777122.5	388.7	3.50	9.77	3.26	YES	
L0000300	0	0.34870E-05	468807.2	3777121.0	388.8	3.50	9.77	3.26	YES	
L0000301	0	0.34870E-05	468828.1	3777119.5	389.0	3.50	9.77	3.26	YES	
L0000302	0	0.34870E-05	468849.1	3777118.0	389.2	3.50	9.77	3.26	YES	
L0000303	0	0.34870E-05	468870.0	3777116.6	389.5	3.50	9.77	3.26	YES	
L0000304	0	0.34870E-05	468891.0	3777115.4	389.8	3.50	9.77	3.26	YES	

Model Output - Muscoy

CWP Implementation, 2020 Vehicle Emission Factors

L0000305	0	0.34870E-05	468912.0	3777114.2	390.1	3.50	9.77	3.26	YES
L0000306	0	0.34870E-05	468932.9	3777113.0	390.4	3.50	9.77	3.26	YES
L0000307	0	0.34870E-05	468953.9	3777111.8	390.6	3.50	9.77	3.26	YES
L0000308	0	0.34870E-05	468974.9	3777110.6	390.9	3.50	9.77	3.26	YES
L0000309	0	0.34870E-05	468995.8	3777109.4	391.1	3.50	9.77	3.26	YES
L0000310	0	0.34870E-05	469016.8	3777108.2	391.3	3.50	9.77	3.26	YES
L0000311	0	0.34870E-05	469037.8	3777106.9	390.7	3.50	9.77	3.26	YES
L0000312	0	0.34870E-05	469058.7	3777106.9	382.7	3.50	9.77	3.26	YES
L0000313	0	0.34870E-05	469079.6	3777108.7	382.9	3.50	9.77	3.26	YES
L0000314	0	0.34870E-05	469100.5	3777110.6	391.1	3.50	9.77	3.26	YES
L0000315	0	0.34870E-05	469121.5	3777112.5	392.0	3.50	9.77	3.26	YES
L0000316	0	0.34870E-05	469142.4	3777114.3	392.1	3.50	9.77	3.26	YES
L0000317	0	0.34870E-05	469163.3	3777116.2	392.1	3.50	9.77	3.26	YES
L0000318	0	0.34870E-05	469184.2	3777118.1	392.2	3.50	9.77	3.26	YES
L0000319	0	0.34870E-05	469205.0	3777120.8	392.2	3.50	9.77	3.26	YES
L0000320	0	0.34870E-05	469225.6	3777124.8	392.2	3.50	9.77	3.26	YES

*** AERMOD - VERSION 19191 *** *** CWP Implementation, Muscoy ***
 *** AERMET - VERSION 16216 *** *** (Existing Plus Project - Existing No Project) > 100 trucks/day ***

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0000321	0	0.34870E-05	469246.2	3777128.9	392.2	3.50	9.77	3.26	YES	
L0000322	0	0.34870E-05	469266.8	3777132.9	392.1	3.50	9.77	3.26	YES	
L0000323	0	0.37780E-05	469298.2	3777140.6	392.1	3.50	10.98	3.26	YES	
L0000324	0	0.37780E-05	469321.1	3777146.6	392.0	3.50	10.98	3.26	YES	
L0000325	0	0.37780E-05	469343.9	3777152.7	391.9	3.50	10.98	3.26	YES	
L0000326	0	0.37780E-05	469366.7	3777158.7	391.8	3.50	10.98	3.26	YES	
L0000327	0	0.37780E-05	469389.4	3777165.0	391.7	3.50	10.98	3.26	YES	
L0000328	0	0.37780E-05	469411.9	3777172.4	391.6	3.50	10.98	3.26	YES	
L0000329	0	0.37780E-05	469434.3	3777179.7	391.4	3.50	10.98	3.26	YES	
L0000330	0	0.37780E-05	469456.7	3777187.1	386.5	3.50	10.98	3.26	YES	
L0000331	0	0.37780E-05	469479.1	3777194.4	383.1	3.50	10.98	3.26	YES	
L0000332	0	0.37780E-05	469501.5	3777201.8	391.1	3.50	10.98	3.26	YES	
L0000333	0	0.37780E-05	469523.0	3777211.7	391.0	3.50	10.98	3.26	YES	
L0000334	0	0.37780E-05	469544.3	3777221.7	390.8	3.50	10.98	3.26	YES	
L0000335	0	0.37780E-05	469565.7	3777231.8	390.7	3.50	10.98	3.26	YES	
L0000336	0	0.37780E-05	469587.0	3777241.8	390.6	3.50	10.98	3.26	YES	
L0000337	0	0.37780E-05	469608.4	3777251.9	390.5	3.50	10.98	3.26	YES	
L0000338	0	0.37780E-05	469629.6	3777262.1	390.1	3.50	10.98	3.26	YES	
L0000339	0	0.37780E-05	469649.4	3777275.0	385.2	3.50	10.98	3.26	YES	
L0000340	0	0.37780E-05	469669.1	3777287.9	380.7	3.50	10.98	3.26	YES	
L0000341	0	0.37780E-05	469688.9	3777300.8	380.5	3.50	10.98	3.26	YES	
L0000342	0	0.37780E-05	469708.6	3777313.8	382.6	3.50	10.98	3.26	YES	

Model Output - Muscoy

CWP Implementation, 2020 Vehicle Emission Factors

L0000343	0	0.37780E-05	469728.0	3777327.2	388.4	3.50	10.98	3.26	YES
L0000344	0	0.37780E-05	469745.9	3777342.6	389.4	3.50	10.98	3.26	YES
L0000345	0	0.37780E-05	469763.7	3777358.0	389.2	3.50	10.98	3.26	YES
L0000346	0	0.37780E-05	469781.6	3777373.5	389.0	3.50	10.98	3.26	YES
L0000347	0	0.37780E-05	469799.5	3777388.9	388.9	3.50	10.98	3.26	YES
L0000348	0	0.37780E-05	469817.3	3777404.4	388.7	3.50	10.98	3.26	YES
L0000349	0	0.37780E-05	469835.1	3777419.9	388.5	3.50	10.98	3.26	YES
L0000350	0	0.37780E-05	469852.8	3777435.4	388.4	3.50	10.98	3.26	YES
L0000351	0	0.37780E-05	469870.6	3777450.9	388.2	3.50	10.98	3.26	YES
L0000352	0	0.37780E-05	469888.4	3777466.4	388.1	3.50	10.98	3.26	YES
L0000353	0	0.37780E-05	469906.2	3777482.0	387.9	3.50	10.98	3.26	YES
L0000354	0	0.37780E-05	469923.1	3777498.4	387.8	3.50	10.98	3.26	YES
L0000355	0	0.37780E-05	469940.0	3777514.9	387.6	3.50	10.98	3.26	YES
L0000356	0	0.37780E-05	469956.8	3777531.4	387.4	3.50	10.98	3.26	YES
L0000357	0	0.37780E-05	469973.7	3777547.9	387.3	3.50	10.98	3.26	YES
L0000358	0	0.37780E-05	469990.6	3777564.4	387.2	3.50	10.98	3.26	YES
L0000359	0	0.53390E-05	468572.3	3781037.7	454.9	3.50	8.65	3.26	YES
L0000360	0	0.53390E-05	468576.0	3781019.5	454.6	3.50	8.65	3.26	YES

*** AERMOD - VERSION 19191 *** CWP Implementation, Muscoy

*** AERMET - VERSION 16216 *** (Existing Plus Project - Existing No Project) > 100 trucks/day

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0000361	0	0.53390E-05	468579.8	3781001.3	454.3	3.50	8.65	3.26	YES	
L0000362	0	0.53390E-05	468583.6	3780983.1	453.9	3.50	8.65	3.26	YES	
L0000363	0	0.53390E-05	468587.4	3780964.9	453.6	3.50	8.65	3.26	YES	
L0000364	0	0.53390E-05	468592.2	3780946.9	453.1	3.50	8.65	3.26	YES	
L0000365	0	0.53390E-05	468597.5	3780929.1	452.8	3.50	8.65	3.26	YES	
L0000366	0	0.53390E-05	468602.9	3780911.3	452.4	3.50	8.65	3.26	YES	
L0000367	0	0.53390E-05	468611.4	3780895.2	452.0	3.50	8.65	3.26	YES	
L0000368	0	0.53390E-05	468622.9	3780880.5	451.6	3.50	8.65	3.26	YES	
L0000369	0	0.53390E-05	468634.4	3780865.9	451.2	3.50	8.65	3.26	YES	
L0000370	0	0.53390E-05	468645.9	3780851.3	450.8	3.50	8.65	3.26	YES	
L0000371	0	0.53390E-05	468657.4	3780836.7	450.4	3.50	8.65	3.26	YES	
L0000372	0	0.53390E-05	468668.9	3780822.1	450.0	3.50	8.65	3.26	YES	
L0000373	0	0.53390E-05	468680.4	3780807.4	449.6	3.50	8.65	3.26	YES	
L0000374	0	0.53390E-05	468691.9	3780792.8	449.2	3.50	8.65	3.26	YES	
L0000375	0	0.53390E-05	468703.4	3780778.2	448.8	3.50	8.65	3.26	YES	
L0000376	0	0.53390E-05	468714.9	3780763.6	448.4	3.50	8.65	3.26	YES	
L0000377	0	0.53390E-05	468726.4	3780748.9	448.1	3.50	8.65	3.26	YES	
L0000378	0	0.53390E-05	468737.9	3780734.3	447.6	3.50	8.65	3.26	YES	
L0000379	0	0.53390E-05	468749.4	3780719.7	447.2	3.50	8.65	3.26	YES	
L0000380	0	0.53390E-05	468760.9	3780705.1	446.9	3.50	8.65	3.26	YES	

Model Output - Muscoy

CWP Implementation, 2020 Vehicle Emission Factors

L0000381	0	0.53390E-05	468772.4	3780690.4	446.5	3.50	8.65	3.26	YES
L0000382	0	0.53390E-05	468783.9	3780675.8	446.1	3.50	8.65	3.26	YES
L0000383	0	0.53390E-05	468795.4	3780661.2	445.7	3.50	8.65	3.26	YES
L0000384	0	0.53390E-05	468806.9	3780646.6	445.3	3.50	8.65	3.26	YES
L0000385	0	0.53390E-05	468818.4	3780632.0	444.9	3.50	8.65	3.26	YES
L0000386	0	0.53390E-05	468829.8	3780617.3	444.5	3.50	8.65	3.26	YES
L0000387	0	0.53390E-05	468841.3	3780602.7	444.2	3.50	8.65	3.26	YES
L0000388	0	0.53390E-05	468852.8	3780588.1	443.7	3.50	8.65	3.26	YES
L0000389	0	0.53390E-05	468864.3	3780573.5	443.3	3.50	8.65	3.26	YES
L0000390	0	0.53390E-05	468875.8	3780558.8	442.9	3.50	8.65	3.26	YES
L0000391	0	0.53390E-05	468887.3	3780544.2	442.6	3.50	8.65	3.26	YES
L0000392	0	0.53390E-05	468898.8	3780529.6	442.1	3.50	8.65	3.26	YES
L0000393	0	0.53390E-05	468910.4	3780515.0	441.7	3.50	8.65	3.26	YES
L0000394	0	0.53390E-05	468922.0	3780500.5	441.3	3.50	8.65	3.26	YES
L0000395	0	0.53390E-05	468933.5	3780485.9	440.9	3.50	8.65	3.26	YES
L0000396	0	0.53390E-05	468945.1	3780471.3	440.5	3.50	8.65	3.26	YES
L0000397	0	0.53390E-05	468956.7	3780456.8	440.2	3.50	8.65	3.26	YES
L0000398	0	0.53390E-05	468968.2	3780442.2	439.7	3.50	8.65	3.26	YES
L0000399	0	0.53390E-05	468979.8	3780427.7	439.4	3.50	8.65	3.26	YES
L0000400	0	0.53390E-05	468991.4	3780413.1	439.0	3.50	8.65	3.26	YES

*** AERMOD - VERSION 19191 ***

*** CWP Implementation, Muscoy

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*** AERMET - VERSION 16216 ***

*** (Existing Plus Project - Existing No Project) > 100 trucks/day

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0000401	0	0.53390E-05	469002.9	3780398.5	438.6	3.50	8.65	3.26	YES	
L0000402	0	0.53390E-05	469014.5	3780384.0	438.2	3.50	8.65	3.26	YES	
L0000403	0	0.53390E-05	469026.1	3780369.4	437.8	3.50	8.65	3.26	YES	
L0000404	0	0.53390E-05	469037.7	3780354.8	437.4	3.50	8.65	3.26	YES	
L0000405	0	0.53390E-05	469049.2	3780340.3	437.2	3.50	8.65	3.26	YES	
L0000406	0	0.53390E-05	469060.8	3780325.7	437.0	3.50	8.65	3.26	YES	
L0000407	0	0.53390E-05	469072.4	3780311.1	436.9	3.50	8.65	3.26	YES	
L0000408	0	0.53390E-05	469083.9	3780296.6	436.8	3.50	8.65	3.26	YES	
L0000409	0	0.53390E-05	469095.5	3780282.0	436.7	3.50	8.65	3.26	YES	
L0000410	0	0.53390E-05	469108.0	3780268.4	436.7	3.50	8.65	3.26	YES	
L0000411	0	0.53390E-05	469123.0	3780257.4	436.5	3.50	8.65	3.26	YES	
L0000412	0	0.53390E-05	469138.0	3780246.5	436.5	3.50	8.65	3.26	YES	
L0000413	0	0.53390E-05	469153.1	3780235.5	436.4	3.50	8.65	3.26	YES	
L0000414	0	0.53390E-05	469168.1	3780224.5	436.1	3.50	8.65	3.26	YES	
L0000415	0	0.36170E-06	468644.9	3777117.9	388.1	3.50	3.49	3.26	YES	
L0000416	0	0.36170E-06	468652.3	3777116.6	388.0	3.50	3.49	3.26	YES	
L0000417	0	0.36170E-06	468659.7	3777115.2	388.0	3.50	3.49	3.26	YES	
L0000418	0	0.36170E-06	468667.0	3777113.8	388.0	3.50	3.49	3.26	YES	

Model Output - Muscoy

CWP Implementation, 2020 Vehicle Emission Factors

L0000419	0	0.36170E-06	468674.4	3777112.5	387.9	3.50	3.49	3.26	YES
L0000420	0	0.36170E-06	468681.8	3777111.1	387.9	3.50	3.49	3.26	YES
L0000421	0	0.36170E-06	468689.2	3777109.8	387.8	3.50	3.49	3.26	YES
L0000422	0	0.36170E-06	468696.5	3777108.4	387.7	3.50	3.49	3.26	YES
L0000423	0	0.36170E-06	468703.9	3777107.0	387.6	3.50	3.49	3.26	YES
L0000424	0	0.36170E-06	468711.3	3777105.7	387.5	3.50	3.49	3.26	YES
L0000425	0	0.36170E-06	468718.7	3777104.3	387.4	3.50	3.49	3.26	YES
L0000426	0	0.36170E-06	468726.0	3777102.7	387.4	3.50	3.49	3.26	YES
L0000427	0	0.36170E-06	468733.2	3777100.5	387.3	3.50	3.49	3.26	YES
L0000428	0	0.36170E-06	468740.3	3777098.4	387.2	3.50	3.49	3.26	YES
L0000429	0	0.36170E-06	468747.5	3777096.2	387.1	3.50	3.49	3.26	YES
L0000430	0	0.36170E-06	468754.7	3777094.1	387.0	3.50	3.49	3.26	YES
L0000431	0	0.36170E-06	468761.9	3777091.9	386.9	3.50	3.49	3.26	YES
L0000432	0	0.36170E-06	468768.7	3777088.9	386.9	3.50	3.49	3.26	YES
L0000433	0	0.36170E-06	468775.4	3777085.4	386.7	3.50	3.49	3.26	YES
L0000434	0	0.36170E-06	468782.0	3777082.0	386.5	3.50	3.49	3.26	YES
L0000435	0	0.36170E-06	468788.7	3777078.5	386.5	3.50	3.49	3.26	YES
L0000436	0	0.36170E-06	468795.4	3777075.1	386.3	3.50	3.49	3.26	YES
L0000437	0	0.36170E-06	468802.0	3777071.6	386.2	3.50	3.49	3.26	YES
L0000438	0	0.36170E-06	468808.2	3777067.4	386.1	3.50	3.49	3.26	YES
L0000439	0	0.36170E-06	468814.3	3777063.1	385.9	3.50	3.49	3.26	YES
L0000440	0	0.36170E-06	468820.4	3777058.7	385.8	3.50	3.49	3.26	YES

*** AERMOD - VERSION 19191 *** CWP Implementation, Muscoy

*** AERMET - VERSION 16216 *** (Existing Plus Project - Existing No Project) > 100 trucks/day

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0000441	0	0.36170E-06	468826.6	3777054.4	385.6	3.50	3.49	3.26	YES	
L0000442	0	0.36170E-06	468832.7	3777050.1	385.4	3.50	3.49	3.26	YES	
L0000443	0	0.36170E-06	468838.8	3777045.7	385.3	3.50	3.49	3.26	YES	
L0000444	0	0.36170E-06	468844.9	3777041.4	385.1	3.50	3.49	3.26	YES	
L0000445	0	0.36170E-06	468851.0	3777037.0	385.0	3.50	3.49	3.26	YES	
L0000446	0	0.36170E-06	468857.2	3777032.7	384.7	3.50	3.49	3.26	YES	
L0000447	0	0.36170E-06	468863.3	3777028.4	384.5	3.50	3.49	3.26	YES	
L0000448	0	0.36170E-06	468869.4	3777024.0	384.3	3.50	3.49	3.26	YES	
L0000449	0	0.36170E-06	468875.5	3777019.7	384.2	3.50	3.49	3.26	YES	
L0000450	0	0.36170E-06	468881.6	3777015.4	384.0	3.50	3.49	3.26	YES	
L0000451	0	0.36170E-06	468887.8	3777011.0	383.8	3.50	3.49	3.26	YES	
L0000452	0	0.36170E-06	468894.3	3777007.3	383.7	3.50	3.49	3.26	YES	
L0000453	0	0.36170E-06	468900.9	3777003.7	383.5	3.50	3.49	3.26	YES	
L0000454	0	0.36170E-06	468907.5	3777000.2	383.3	3.50	3.49	3.26	YES	
L0000455	0	0.36170E-06	468914.1	3776996.6	383.1	3.50	3.49	3.26	YES	
L0000456	0	0.36170E-06	468920.7	3776993.0	382.9	3.50	3.49	3.26	YES	

Model Output - Muscoy
CWP Implementation, 2020 Vehicle Emission Factors

L0000457	0	0.36170E-06	468927.3	3776989.5	382.8	3.50	3.49	3.26	YES
L0000458	0	0.36170E-06	468933.9	3776985.9	382.6	3.50	3.49	3.26	YES
L0000459	0	0.36170E-06	468940.5	3776982.3	382.3	3.50	3.49	3.26	YES
L0000460	0	0.36170E-06	468947.6	3776980.3	382.2	3.50	3.49	3.26	YES
L0000461	0	0.36170E-06	468954.9	3776978.8	382.0	3.50	3.49	3.26	YES
L0000462	0	0.36170E-06	468962.3	3776977.3	381.8	3.50	3.49	3.26	YES
L0000463	0	0.36170E-06	468969.6	3776975.8	381.6	3.50	3.49	3.26	YES
L0000464	0	0.36170E-06	468977.0	3776974.3	381.4	3.50	3.49	3.26	YES
L0000465	0	0.36170E-06	468984.5	3776973.8	381.1	3.50	3.49	3.26	YES
L0000466	0	0.36170E-06	468992.0	3776973.4	380.9	3.50	3.49	3.26	YES
L0000467	0	0.36170E-06	468999.4	3776973.0	380.8	3.50	3.49	3.26	YES
L0000468	0	0.36170E-06	469006.9	3776972.5	380.6	3.50	3.49	3.26	YES
L0000469	0	0.36170E-06	469014.4	3776972.1	380.5	3.50	3.49	3.26	YES
L0000470	0	0.36170E-06	469021.9	3776971.7	380.4	3.50	3.49	3.26	YES
L0000471	0	0.36170E-06	469029.4	3776971.2	380.4	3.50	3.49	3.26	YES
L0000472	0	0.36170E-06	469036.9	3776970.8	380.4	3.50	3.49	3.26	YES
L0000473	0	0.36170E-06	469044.4	3776970.4	380.4	3.50	3.49	3.26	YES
L0000474	0	0.36170E-06	469051.9	3776970.0	380.5	3.50	3.49	3.26	YES
L0000475	0	0.10250E-05	469068.0	3777071.1	382.0	3.50	13.49	3.26	YES
L0000476	0	0.10250E-05	469068.2	3777042.1	381.6	3.50	13.49	3.26	YES
L0000477	0	0.10250E-05	469068.4	3777013.1	381.2	3.50	13.49	3.26	YES
L0000478	0	0.10250E-05	469068.5	3776984.1	380.8	3.50	13.49	3.26	YES

Model Output - Muscoy

CWP Implementation, 2020 Vehicle Emission Factors

*** AERMOD - VERSION 19191 *** *** CWP Implementation, Muscoy *** 05/14/20
*** AERMET - VERSION 16216 *** *** (Existing Plus Project - Existing No Project) > 100 trucks/day *** 15:30:35
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

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

ALL	All Volume Sources L0000001 thru L0000478
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*** AERMOD - VERSION 19191 *** *** CWP Implementation, Muscoy *** 05/14/20
*** AERMET - VERSION 16216 *** *** (Existing Plus Project - Existing No Project) > 100 trucks/day *** 15:30:35
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
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	2035210.	
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Model Output - Muscoy
CWP Implementation, 2020 Vehicle Emission Factors

*** AERMOD - VERSION 19191 ***	*** CWP Implementation, Muscoy	*** 05/14/20
*** AERMET - VERSION 16216 ***	*** (Existing Plus Project - Existing No Project) > 100 trucks/day	*** 15:30:35
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(469148.2, 3777316.1, 385.4, 385.4, 0.0);	(469198.2, 3777316.1, 385.2, 385.2, 0.0);
(469148.2, 3777366.1, 385.9, 385.9, 0.0);	(469198.2, 3777366.1, 386.1, 386.1, 0.0);
(468848.2, 3777416.1, 388.4, 388.4, 0.0);	(468898.2, 3777416.1, 387.8, 387.8, 0.0);
(468948.2, 3777416.1, 387.7, 387.7, 0.0);	(468998.2, 3777416.1, 387.2, 387.2, 0.0);
(469048.2, 3777416.1, 387.1, 387.1, 0.0);	(469098.2, 3777416.1, 386.7, 386.7, 0.0);
(469148.2, 3777416.1, 386.7, 386.7, 0.0);	(469198.2, 3777416.1, 386.6, 386.6, 0.0);
(469248.2, 3777416.1, 386.2, 386.2, 0.0);	(469298.2, 3777416.1, 385.8, 385.8, 0.0);
(469348.2, 3777416.1, 385.4, 385.4, 0.0);	(469398.2, 3777416.1, 385.0, 385.0, 0.0);
(469448.2, 3777416.1, 384.5, 384.5, 0.0);	(468848.2, 3777466.1, 389.2, 389.2, 0.0);
(468898.2, 3777466.1, 388.6, 388.6, 0.0);	(468948.2, 3777466.1, 388.4, 388.4, 0.0);
(468998.2, 3777466.1, 388.1, 388.1, 0.0);	(469048.2, 3777466.1, 387.8, 387.8, 0.0);
(469098.2, 3777466.1, 387.4, 387.4, 0.0);	(469148.2, 3777466.1, 387.4, 387.4, 0.0);
(469198.2, 3777466.1, 387.2, 387.2, 0.0);	(469248.2, 3777466.1, 386.8, 386.8, 0.0);
(469298.2, 3777466.1, 386.4, 386.4, 0.0);	(469348.2, 3777466.1, 386.0, 386.0, 0.0);
(469398.2, 3777466.1, 385.6, 385.6, 0.0);	(469448.2, 3777466.1, 385.2, 385.2, 0.0);
(468698.2, 3777516.1, 391.1, 391.1, 0.0);	(468748.2, 3777516.1, 390.6, 390.6, 0.0);
(468798.2, 3777516.1, 390.4, 390.4, 0.0);	(468848.2, 3777516.1, 389.8, 389.8, 0.0);
(468898.2, 3777516.1, 389.5, 389.5, 0.0);	(468948.2, 3777516.1, 389.4, 389.4, 0.0);
(468998.2, 3777516.1, 389.1, 389.1, 0.0);	(469048.2, 3777516.1, 388.7, 388.7, 0.0);
(469098.2, 3777516.1, 388.3, 388.3, 0.0);	(469148.2, 3777516.1, 388.3, 388.3, 0.0);
(469198.2, 3777516.1, 387.9, 387.9, 0.0);	(469248.2, 3777516.1, 387.7, 387.7, 0.0);
(469298.2, 3777516.1, 387.4, 387.4, 0.0);	(469348.2, 3777516.1, 386.9, 386.9, 0.0);
(469398.2, 3777516.1, 386.3, 386.3, 0.0);	(469448.2, 3777516.1, 385.6, 385.6, 0.0);
(468648.2, 3777566.1, 392.1, 392.1, 0.0);	(468698.2, 3777566.1, 391.7, 391.7, 0.0);
(468748.2, 3777566.1, 391.5, 391.5, 0.0);	(468798.2, 3777566.1, 391.2, 391.2, 0.0);
(468848.2, 3777566.1, 390.6, 390.6, 0.0);	(468898.2, 3777566.1, 390.2, 390.2, 0.0);
(468948.2, 3777566.1, 390.2, 390.2, 0.0);	(468998.2, 3777566.1, 389.9, 389.9, 0.0);
(469048.2, 3777566.1, 389.6, 389.6, 0.0);	(469098.2, 3777566.1, 389.4, 389.4, 0.0);
(469148.2, 3777566.1, 389.1, 389.1, 0.0);	(469198.2, 3777566.1, 388.7, 388.7, 0.0);
(469248.2, 3777566.1, 388.5, 388.5, 0.0);	(469298.2, 3777566.1, 388.1, 388.1, 0.0);
(469348.2, 3777566.1, 387.5, 387.5, 0.0);	(469398.2, 3777566.1, 386.9, 386.9, 0.0);
(469448.2, 3777566.1, 386.3, 386.3, 0.0);	(468598.2, 3777616.1, 393.2, 393.2, 0.0);
(468648.2, 3777616.1, 392.8, 392.8, 0.0);	(468698.2, 3777616.1, 392.5, 392.5, 0.0);
(468748.2, 3777616.1, 392.1, 392.1, 0.0);	(468798.2, 3777616.1, 392.3, 392.3, 0.0);
(468848.2, 3777616.1, 391.6, 391.6, 0.0);	(468898.2, 3777616.1, 391.3, 391.3, 0.0);
(468948.2, 3777616.1, 391.0, 391.0, 0.0);	(468998.2, 3777616.1, 390.6, 390.6, 0.0);
(469048.2, 3777616.1, 390.7, 390.7, 0.0);	(469098.2, 3777616.1, 390.4, 390.4, 0.0);
(469148.2, 3777616.1, 389.8, 389.8, 0.0);	(469198.2, 3777616.1, 389.6, 389.6, 0.0);
(469248.2, 3777616.1, 389.2, 389.2, 0.0);	(469298.2, 3777616.1, 388.6, 388.6, 0.0);
(469348.2, 3777616.1, 387.9, 387.9, 0.0);	(469398.2, 3777616.1, 387.3, 387.3, 0.0);
(469448.2, 3777616.1, 386.6, 386.6, 0.0);	(468548.2, 3777666.1, 394.3, 394.3, 0.0);
(468598.2, 3777666.1, 394.0, 394.0, 0.0);	(468648.2, 3777666.1, 393.7, 393.7, 0.0);

Model Output - Muscoy
CWP Implementation, 2020 Vehicle Emission Factors

```
( 468698.2, 3777666.1, 393.2, 393.2, 0.0); ( 468748.2, 3777666.1, 392.9, 392.9, 0.0);
( 468798.2, 3777666.1, 393.1, 393.1, 0.0); ( 468848.2, 3777666.1, 392.7, 392.7, 0.0);
( 468898.2, 3777666.1, 392.3, 392.3, 0.0); ( 468948.2, 3777666.1, 392.0, 392.0, 0.0);
*** AERMOD - VERSION 19191 *** *** CWP Implementation, Muscoy *** 05/14/20
*** AERMET - VERSION 16216 *** *** (Existing Plus Project - Existing No Project) > 100 trucks/day *** 15:30:35
*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U* *** PAGE 21

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

( 468998.2, 3777666.1, 391.5, 391.5, 0.0); ( 469048.2, 3777666.1, 391.4, 391.4, 0.0);
( 469098.2, 3777666.1, 391.0, 391.0, 0.0); ( 469148.2, 3777666.1, 390.6, 390.6, 0.0);
( 469198.2, 3777666.1, 390.3, 390.3, 0.0); ( 469248.2, 3777666.1, 389.9, 389.9, 0.0);
( 469298.2, 3777666.1, 389.0, 389.0, 0.0); ( 469348.2, 3777666.1, 388.2, 388.2, 0.0);
( 469398.2, 3777666.1, 387.7, 387.7, 0.0); ( 469448.2, 3777666.1, 387.2, 387.2, 0.0);
( 468498.2, 3777716.1, 395.4, 395.4, 0.0); ( 468548.2, 3777716.1, 394.9, 394.9, 0.0);
( 468598.2, 3777716.1, 394.7, 394.7, 0.0); ( 468648.2, 3777716.1, 394.4, 394.4, 0.0);
( 468698.2, 3777716.1, 394.0, 394.0, 0.0); ( 468748.2, 3777716.1, 393.9, 393.9, 0.0);
( 468798.2, 3777716.1, 393.8, 393.8, 0.0); ( 468848.2, 3777716.1, 393.6, 393.6, 0.0);
( 468898.2, 3777716.1, 393.4, 393.4, 0.0); ( 468948.2, 3777716.1, 392.8, 392.8, 0.0);
( 468998.2, 3777716.1, 392.5, 392.5, 0.0); ( 469048.2, 3777716.1, 392.2, 392.2, 0.0);
( 469098.2, 3777716.1, 391.8, 391.8, 0.0); ( 469148.2, 3777716.1, 391.3, 391.3, 0.0);
( 469198.2, 3777716.1, 390.9, 390.9, 0.0); ( 469248.2, 3777716.1, 390.3, 390.3, 0.0);
( 469298.2, 3777716.1, 389.5, 389.5, 0.0); ( 469348.2, 3777716.1, 388.8, 388.8, 0.0);
( 469398.2, 3777716.1, 388.1, 388.1, 0.0); ( 469448.2, 3777716.1, 387.3, 387.3, 0.0);
( 468673.0, 3778105.7, 401.2, 401.2, 0.0); ( 468723.0, 3778105.7, 400.4, 400.4, 0.0);
( 468773.0, 3778105.7, 399.7, 399.7, 0.0); ( 468823.0, 3778105.7, 399.1, 399.1, 0.0);
( 468873.0, 3778105.7, 398.7, 398.7, 0.0); ( 468923.0, 3778105.7, 398.3, 398.3, 0.0);
( 468973.0, 3778105.7, 397.6, 397.6, 0.0); ( 469023.0, 3778105.7, 396.9, 396.9, 0.0);
( 469055.0, 3778104.4, 396.6, 396.6, 0.0); ( 469101.2, 3778104.4, 396.3, 396.3, 0.0);
( 469151.2, 3778104.4, 396.0, 396.0, 0.0); ( 469201.2, 3778104.4, 395.5, 395.5, 0.0);
( 469251.2, 3778104.4, 395.2, 395.2, 0.0); ( 469301.2, 3778104.4, 394.4, 394.4, 0.0);
( 469351.2, 3778104.4, 393.6, 393.6, 0.0); ( 469401.2, 3778104.4, 393.4, 393.4, 0.0);
( 469451.2, 3778104.4, 393.2, 393.2, 0.0); ( 468673.0, 3778155.7, 401.7, 401.7, 0.0);
( 468723.0, 3778155.7, 401.0, 401.0, 0.0); ( 468773.0, 3778155.7, 400.2, 400.2, 0.0);
( 468823.0, 3778155.7, 399.6, 399.6, 0.0); ( 468873.0, 3778155.7, 399.5, 399.5, 0.0);
( 468923.0, 3778155.7, 398.8, 398.8, 0.0); ( 468973.0, 3778155.7, 398.1, 398.1, 0.0);
( 469023.0, 3778155.7, 397.5, 397.5, 0.0); ( 469055.0, 3778154.4, 397.4, 397.4, 0.0);
( 469101.2, 3778154.4, 397.2, 397.2, 0.0); ( 469151.2, 3778154.4, 397.0, 397.0, 0.0);
( 469201.2, 3778154.4, 396.4, 396.4, 0.0); ( 469251.2, 3778154.4, 395.9, 395.9, 0.0);
( 469301.2, 3778154.4, 394.6, 394.6, 0.0); ( 469351.2, 3778154.4, 394.1, 394.1, 0.0);
( 469401.2, 3778154.4, 394.2, 394.2, 0.0); ( 469451.2, 3778154.4, 394.0, 394.0, 0.0);
( 468673.0, 3778205.7, 402.2, 402.2, 0.0); ( 468723.0, 3778205.7, 401.6, 401.6, 0.0);
( 468773.0, 3778205.7, 401.0, 401.0, 0.0); ( 468823.0, 3778205.7, 400.3, 400.3, 0.0);
( 468873.0, 3778205.7, 400.0, 400.0, 0.0); ( 468923.0, 3778205.7, 399.3, 399.3, 0.0);
( 468973.0, 3778205.7, 398.9, 398.9, 0.0); ( 469023.0, 3778205.7, 398.3, 398.3, 0.0);
( 469055.0, 3778204.4, 398.2, 398.2, 0.0); ( 469101.2, 3778204.4, 398.0, 398.0, 0.0);
( 469151.2, 3778204.4, 397.7, 397.7, 0.0); ( 469201.2, 3778204.4, 396.9, 396.9, 0.0);
( 469251.2, 3778204.4, 396.6, 396.6, 0.0); ( 469301.2, 3778204.4, 395.5, 395.5, 0.0);
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Model Output - Muscoy
CWP Implementation, 2020 Vehicle Emission Factors

(469351.2, 3778204.4,	395.2,	395.2,	0.0);	(469401.2, 3778204.4,	395.1,	395.1,	0.0);
(469451.2, 3778204.4,	394.7,	394.7,	0.0);	(468673.0, 3778255.7,	402.8,	402.8,	0.0);
(468723.0, 3778255.7,	402.2,	402.2,	0.0);	(468773.0, 3778255.7,	401.5,	401.5,	0.0);
(468823.0, 3778255.7,	401.2,	401.2,	0.0);	(468873.0, 3778255.7,	400.6,	400.6,	0.0);
(468923.0, 3778255.7,	399.9,	399.9,	0.0);	(468973.0, 3778255.7,	399.5,	399.5,	0.0);
(469023.0, 3778255.7,	399.1,	399.1,	0.0);	(469055.0, 3778254.4,	399.1,	399.1,	0.0);
*** AERMOD - VERSION 19191 ***	***	*** CWP Implementation, Muscoy		***			05/14/20
*** AERMET - VERSION 16216 ***	***	*** (Existing Plus Project - Existing No Project) > 100 trucks/day		***			15:30:35
							PAGE 22
*** MODELOPTs:	RegDFAULT	CONC	ELEV	URBAN	ADJ_U*		

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(469101.2, 3778254.4,	398.9,	398.9,	0.0);	(469151.2, 3778254.4,	398.4,	398.4,	0.0);
(469201.2, 3778254.4,	397.6,	397.6,	0.0);	(469251.2, 3778254.4,	397.3,	397.3,	0.0);
(469301.2, 3778254.4,	396.7,	396.7,	0.0);	(469351.2, 3778254.4,	396.1,	396.1,	0.0);
(469401.2, 3778254.4,	395.8,	395.8,	0.0);	(469451.2, 3778254.4,	395.2,	395.2,	0.0);
(468673.0, 3778305.7,	403.4,	403.4,	0.0);	(468723.0, 3778305.7,	402.8,	402.8,	0.0);
(468773.0, 3778305.7,	402.4,	402.4,	0.0);	(468823.0, 3778305.7,	401.8,	401.8,	0.0);
(468873.0, 3778305.7,	401.0,	401.0,	0.0);	(468923.0, 3778305.7,	400.6,	400.6,	0.0);
(468973.0, 3778305.7,	400.2,	400.2,	0.0);	(469023.0, 3778305.7,	400.0,	400.0,	0.0);
(469055.0, 3778304.4,	399.9,	399.9,	0.0);	(469101.2, 3778304.4,	399.7,	399.7,	0.0);
(469151.2, 3778304.4,	398.9,	398.9,	0.0);	(469201.2, 3778304.4,	398.7,	398.7,	0.0);
(469251.2, 3778304.4,	398.3,	398.3,	0.0);	(469301.2, 3778304.4,	397.8,	397.8,	0.0);
(469351.2, 3778304.4,	396.8,	396.8,	0.0);	(469401.2, 3778304.4,	396.6,	396.6,	0.0);
(469451.2, 3778304.4,	396.2,	396.2,	0.0);	(468673.0, 3778355.7,	404.0,	404.0,	0.0);
(468723.0, 3778355.7,	403.6,	403.6,	0.0);	(468773.0, 3778355.7,	403.0,	403.0,	0.0);
(468823.0, 3778355.7,	402.3,	402.3,	0.0);	(468873.0, 3778355.7,	401.8,	401.8,	0.0);
(468923.0, 3778355.7,	401.7,	401.7,	0.0);	(468973.0, 3778355.7,	401.2,	401.2,	0.0);
(469023.0, 3778355.7,	401.0,	401.0,	0.0);	(469055.0, 3778354.4,	400.7,	400.7,	0.0);
(469101.2, 3778354.4,	400.3,	400.3,	0.0);	(469151.2, 3778354.4,	399.8,	399.8,	0.0);
(469201.2, 3778354.4,	399.6,	399.6,	0.0);	(469251.2, 3778354.4,	399.1,	399.1,	0.0);
(469301.2, 3778354.4,	398.3,	398.3,	0.0);	(469351.2, 3778354.4,	397.5,	397.5,	0.0);
(469401.2, 3778354.4,	397.6,	397.6,	0.0);	(469451.2, 3778354.4,	397.2,	397.2,	0.0);
(468673.0, 3778405.7,	404.7,	404.7,	0.0);	(468723.0, 3778405.7,	404.1,	404.1,	0.0);
(468773.0, 3778405.7,	403.5,	403.5,	0.0);	(468823.0, 3778405.7,	403.2,	403.2,	0.0);
(468873.0, 3778405.7,	403.0,	403.0,	0.0);	(468923.0, 3778405.7,	402.6,	402.6,	0.0);
(468973.0, 3778405.7,	401.9,	401.9,	0.0);	(469023.0, 3778405.7,	401.4,	401.4,	0.0);
(469055.0, 3778404.4,	401.4,	401.4,	0.0);	(469101.2, 3778404.4,	401.2,	401.2,	0.0);
(469151.2, 3778404.4,	400.8,	400.8,	0.0);	(469201.2, 3778404.4,	400.4,	400.4,	0.0);
(469251.2, 3778404.4,	399.8,	399.8,	0.0);	(469301.2, 3778404.4,	399.0,	399.0,	0.0);
(469351.2, 3778404.4,	398.4,	398.4,	0.0);	(469401.2, 3778404.4,	398.2,	398.2,	0.0);
(469451.2, 3778404.4,	397.7,	397.7,	0.0);	(468673.0, 3778455.7,	405.5,	405.5,	0.0);
(468723.0, 3778455.7,	405.0,	405.0,	0.0);	(468773.0, 3778455.7,	404.5,	404.5,	0.0);
(468823.0, 3778455.7,	404.4,	404.4,	0.0);	(468873.0, 3778455.7,	404.1,	404.1,	0.0);
(468923.0, 3778455.7,	403.4,	403.4,	0.0);	(468973.0, 3778455.7,	402.7,	402.7,	0.0);
(469023.0, 3778455.7,	402.6,	402.6,	0.0);	(469055.0, 3778454.4,	402.5,	402.5,	0.0);
(469101.2, 3778454.4,	402.3,	402.3,	0.0);	(469151.2, 3778454.4,	401.6,	401.6,	0.0);
(469201.2, 3778454.4,	401.2,	401.2,	0.0);	(469251.2, 3778454.4,	400.5,	400.5,	0.0);

Model Output - Muscoy

CWP Implementation, 2020 Vehicle Emission Factors

(469301.2, 3778454.4,	399.7,	399.7,	0.0);	(469351.2, 3778454.4,	399.3,	399.3,	0.0);
(469401.2, 3778454.4,	399.2,	399.2,	0.0);	(469451.2, 3778454.4,	398.8,	398.8,	0.0);
(468673.0, 3778505.7,	406.2,	406.2,	0.0);	(468723.0, 3778505.7,	405.8,	405.8,	0.0);
(468773.0, 3778505.7,	405.3,	405.3,	0.0);	(468823.0, 3778505.7,	404.7,	404.7,	0.0);
(468873.0, 3778505.7,	404.3,	404.3,	0.0);	(468923.0, 3778505.7,	403.8,	403.8,	0.0);
(468973.0, 3778505.7,	403.5,	403.5,	0.0);	(469023.0, 3778505.7,	403.4,	403.4,	0.0);
(469055.0, 3778504.4,	403.3,	403.3,	0.0);	(469101.2, 3778504.4,	402.8,	402.8,	0.0);
(469151.2, 3778504.4,	402.3,	402.3,	0.0);	(469201.2, 3778504.4,	401.7,	401.7,	0.0);
(469251.2, 3778504.4,	401.1,	401.1,	0.0);	(469301.2, 3778504.4,	400.6,	400.6,	0.0);
*** AERMOD - VERSION 19191 ***	*** CWP Implementation, Muscoy			***			05/14/20
*** AERMET - VERSION 16216 ***	*** (Existing Plus Project - Existing No Project) > 100 trucks/day			***			15:30:35
*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ U*							PAGE 23

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*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

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(469351.2, 3778504.4,	400.4,	400.4,	0.0);	(469401.2, 3778504.4,	400.1,	400.1,	0.0);
(469451.2, 3778504.4,	399.9,	399.9,	0.0);	(468673.0, 3778555.7,	407.1,	407.1,	0.0);
(468723.0, 3778555.7,	406.6,	406.6,	0.0);	(468773.0, 3778555.7,	406.1,	406.1,	0.0);
(468823.0, 3778555.7,	405.6,	405.6,	0.0);	(468873.0, 3778555.7,	405.0,	405.0,	0.0);
(468923.0, 3778555.7,	404.4,	404.4,	0.0);	(468973.0, 3778555.7,	404.6,	404.6,	0.0);
(469023.0, 3778555.7,	404.3,	404.3,	0.0);	(469055.0, 3778554.4,	404.0,	404.0,	0.0);
(469101.2, 3778554.4,	403.8,	403.8,	0.0);	(469151.2, 3778554.4,	403.2,	403.2,	0.0);
(469201.2, 3778554.4,	402.7,	402.7,	0.0);	(469251.2, 3778554.4,	401.9,	401.9,	0.0);
(469301.2, 3778554.4,	401.5,	401.5,	0.0);	(469351.2, 3778554.4,	401.4,	401.4,	0.0);
(469401.2, 3778554.4,	401.5,	401.5,	0.0);	(469451.2, 3778554.4,	401.4,	401.4,	0.0);
(468673.0, 3778605.7,	407.9,	407.9,	0.0);	(468723.0, 3778605.7,	407.2,	407.2,	0.0);
(468773.0, 3778605.7,	407.0,	407.0,	0.0);	(468823.0, 3778605.7,	406.3,	406.3,	0.0);
(468873.0, 3778605.7,	405.7,	405.7,	0.0);	(468923.0, 3778605.7,	405.4,	405.4,	0.0);
(468973.0, 3778605.7,	405.4,	405.4,	0.0);	(469023.0, 3778605.7,	405.2,	405.2,	0.0);
(469055.0, 3778604.4,	405.0,	405.0,	0.0);	(469101.2, 3778604.4,	404.6,	404.6,	0.0);
(469151.2, 3778604.4,	404.1,	404.1,	0.0);	(469201.2, 3778604.4,	403.4,	403.4,	0.0);
(469251.2, 3778604.4,	402.8,	402.8,	0.0);	(469301.2, 3778604.4,	402.5,	402.5,	0.0);
(469351.2, 3778604.4,	402.4,	402.4,	0.0);	(469401.2, 3778604.4,	402.9,	402.9,	0.0);
(469451.2, 3778604.4,	402.5,	402.5,	0.0);	(468673.0, 3778655.7,	408.7,	408.7,	0.0);
(468723.0, 3778655.7,	407.9,	407.9,	0.0);	(468773.0, 3778655.7,	407.6,	407.6,	0.0);
(468823.0, 3778655.7,	407.1,	407.1,	0.0);	(468873.0, 3778655.7,	406.7,	406.7,	0.0);
(468923.0, 3778655.7,	406.5,	406.5,	0.0);	(468973.0, 3778655.7,	406.3,	406.3,	0.0);
(469023.0, 3778655.7,	406.1,	406.1,	0.0);	(469055.0, 3778654.4,	405.9,	405.9,	0.0);
(469101.2, 3778654.4,	405.5,	405.5,	0.0);	(469151.2, 3778654.4,	404.9,	404.9,	0.0);
(469201.2, 3778654.4,	404.2,	404.2,	0.0);	(469251.2, 3778654.4,	403.8,	403.8,	0.0);
(469301.2, 3778654.4,	403.7,	403.7,	0.0);	(469351.2, 3778654.4,	403.6,	403.6,	0.0);
(469401.2, 3778654.4,	403.6,	403.6,	0.0);	(469451.2, 3778654.4,	403.5,	403.5,	0.0);
(468673.0, 3778705.7,	409.5,	409.5,	0.0);	(468723.0, 3778705.7,	409.1,	409.1,	0.0);
(468773.0, 3778705.7,	408.5,	408.5,	0.0);	(468823.0, 3778705.7,	408.0,	408.0,	0.0);
(468873.0, 3778705.7,	407.9,	407.9,	0.0);	(468923.0, 3778705.7,	407.3,	407.3,	0.0);
(468973.0, 3778705.7,	407.2,	407.2,	0.0);	(469023.0, 3778705.7,	407.2,	407.2,	0.0);
(469055.0, 3778704.4,	407.0,	407.0,	0.0);	(469101.2, 3778704.4,	406.4,	406.4,	0.0);
(469151.2, 3778704.4,	405.9,	405.9,	0.0);	(469201.2, 3778704.4,	405.0,	405.0,	0.0);

Model Output - Muscoy
CWP Implementation, 2020 Vehicle Emission Factors

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( 469251.2, 3778704.4, 405.0, 405.0, 0.0); ( 469301.2, 3778704.4, 404.9, 404.9, 0.0);
( 469351.2, 3778704.4, 404.6, 404.6, 0.0); ( 469401.2, 3778704.4, 404.4, 404.4, 0.0);
( 469451.2, 3778704.4, 404.0, 404.0, 0.0); ( 468673.0, 3778755.7, 410.4, 410.4, 0.0);
( 468723.0, 3778755.7, 409.9, 409.9, 0.0); ( 468773.0, 3778755.7, 409.2, 409.2, 0.0);
( 468823.0, 3778755.7, 409.1, 409.1, 0.0); ( 468873.0, 3778755.7, 408.7, 408.7, 0.0);
( 468923.0, 3778755.7, 408.3, 408.3, 0.0); ( 468973.0, 3778755.7, 408.3, 408.3, 0.0);
( 469023.0, 3778755.7, 408.2, 408.2, 0.0); ( 469055.0, 3778754.4, 407.7, 407.7, 0.0);
( 469101.2, 3778754.4, 407.3, 407.3, 0.0); ( 469151.2, 3778754.4, 407.4, 407.4, 0.0);
( 469201.2, 3778754.4, 406.5, 406.5, 0.0); ( 469251.2, 3778754.4, 406.0, 406.0, 0.0);
( 469301.2, 3778754.4, 406.0, 406.0, 0.0); ( 469351.2, 3778754.4, 405.5, 405.5, 0.0);
( 469401.2, 3778754.4, 405.4, 405.4, 0.0); ( 469451.2, 3778754.4, 404.5, 404.5, 0.0);
( 468673.0, 3778805.7, 411.2, 411.2, 0.0); ( 468723.0, 3778805.7, 410.6, 410.6, 0.0);

*** AERMOD - VERSION 19191 *** *** CWP Implementation, Muscoy *** 05/14/20
*** AERMET - VERSION 16216 *** *** (Existing Plus Project - Existing No Project) > 100 trucks/day *** 15:30:35
*** MODELOPTS: RegDFAULT CONC ELEV URBAN ADJ_U* *** PAGE 24

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

( 468773.0, 3778805.7, 410.2, 410.2, 0.0); ( 468823.0, 3778805.7, 410.1, 410.1, 0.0);
( 468873.0, 3778805.7, 409.7, 409.7, 0.0); ( 468923.0, 3778805.7, 409.7, 409.7, 0.0);
( 468973.0, 3778805.7, 409.8, 409.8, 0.0); ( 469023.0, 3778805.7, 408.9, 408.9, 0.0);
( 469055.0, 3778804.4, 408.3, 408.3, 0.0); ( 469101.2, 3778804.4, 407.9, 407.9, 0.0);
( 469151.2, 3778804.4, 407.2, 407.2, 0.0); ( 469201.2, 3778804.4, 407.6, 407.6, 0.0);
( 469251.2, 3778804.4, 407.2, 407.2, 0.0); ( 469301.2, 3778804.4, 406.6, 406.6, 0.0);
( 469351.2, 3778804.4, 406.4, 406.4, 0.0); ( 469401.2, 3778804.4, 405.9, 405.9, 0.0);
( 469451.2, 3778804.4, 405.4, 571.5, 0.0); ( 468673.0, 3778855.7, 411.9, 411.9, 0.0);
( 468723.0, 3778855.7, 411.5, 411.5, 0.0); ( 468773.0, 3778855.7, 411.3, 411.3, 0.0);
( 468823.0, 3778855.7, 411.3, 411.3, 0.0); ( 468873.0, 3778855.7, 410.8, 410.8, 0.0);
( 468923.0, 3778855.7, 410.9, 410.9, 0.0); ( 468973.0, 3778855.7, 410.3, 410.3, 0.0);
( 469023.0, 3778855.7, 409.8, 409.8, 0.0); ( 469055.0, 3778854.4, 409.3, 409.3, 0.0);
( 469101.2, 3778854.4, 408.4, 408.4, 0.0); ( 469151.2, 3778854.4, 408.2, 408.2, 0.0);
( 469201.2, 3778854.4, 408.5, 408.5, 0.0); ( 469251.2, 3778854.4, 408.0, 408.0, 0.0);
( 469301.2, 3778854.4, 407.8, 407.8, 0.0); ( 469351.2, 3778854.4, 407.2, 407.2, 0.0);
( 469401.2, 3778854.4, 406.6, 572.0, 0.0); ( 469451.2, 3778854.4, 406.3, 572.1, 0.0);
( 468673.0, 3778905.7, 412.7, 412.7, 0.0); ( 468723.0, 3778905.7, 412.5, 412.5, 0.0);
( 468773.0, 3778905.7, 412.3, 412.3, 0.0); ( 468823.0, 3778905.7, 412.2, 412.2, 0.0);
( 468873.0, 3778905.7, 411.9, 411.9, 0.0); ( 468923.0, 3778905.7, 411.6, 411.6, 0.0);
( 468973.0, 3778905.7, 411.0, 411.0, 0.0); ( 469023.0, 3778905.7, 410.4, 410.4, 0.0);
( 469055.0, 3778904.4, 410.0, 410.0, 0.0); ( 469101.2, 3778904.4, 409.3, 409.3, 0.0);
( 469151.2, 3778904.4, 409.2, 409.2, 0.0); ( 469201.2, 3778904.4, 409.3, 409.3, 0.0);
( 469251.2, 3778904.4, 408.9, 408.9, 0.0); ( 469301.2, 3778904.4, 408.5, 571.5, 0.0);
( 469351.2, 3778904.4, 407.9, 572.1, 0.0); ( 469401.2, 3778904.4, 407.6, 572.1, 0.0);
( 469451.2, 3778904.4, 406.9, 572.1, 0.0); ( 468673.6, 3778940.5, 413.4, 413.4, 0.0);
( 468723.6, 3778940.5, 413.3, 413.3, 0.0); ( 468773.6, 3778940.5, 412.9, 412.9, 0.0);
( 468823.6, 3778940.5, 413.0, 413.0, 0.0); ( 468873.6, 3778940.5, 412.8, 412.8, 0.0);
( 468923.6, 3778940.5, 412.5, 412.5, 0.0); ( 468973.6, 3778940.5, 411.7, 411.7, 0.0);
( 469023.6, 3778940.5, 411.0, 411.0, 0.0); ( 469054.4, 3778940.5, 410.8, 410.8, 0.0);
( 469123.6, 3778940.5, 409.8, 409.8, 0.0); ( 469173.6, 3778940.5, 410.0, 410.0, 0.0);
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Model Output - Muscoy
CWP Implementation, 2020 Vehicle Emission Factors

(469223.6, 3778940.5,	409.9,	409.9,	0.0);	(469273.6, 3778940.5,	409.4,	572.0,	0.0);
(469323.6, 3778940.5,	408.9,	572.1,	0.0);	(469373.6, 3778940.5,	408.5,	572.1,	0.0);
(469423.6, 3778940.5,	407.8,	572.1,	0.0);	(469473.6, 3778940.5,	407.2,	572.1,	0.0);
(468673.6, 3778990.5,	414.4,	414.4,	0.0);	(468723.6, 3778990.5,	414.1,	414.1,	0.0);
(468773.6, 3778990.5,	413.8,	413.8,	0.0);	(468823.6, 3778990.5,	413.0,	413.0,	0.0);
(468873.6, 3778990.5,	412.7,	412.7,	0.0);	(468923.6, 3778990.5,	412.6,	414.7,	0.0);
(468973.6, 3778990.5,	412.7,	412.7,	0.0);	(469023.6, 3778990.5,	411.9,	411.9,	0.0);
(469054.4, 3778990.5,	411.6,	411.6,	0.0);	(469123.6, 3778990.5,	411.1,	411.1,	0.0);
(469173.6, 3778990.5,	411.5,	559.1,	0.0);	(469223.6, 3778990.5,	410.9,	572.1,	0.0);
(469273.6, 3778990.5,	410.5,	572.1,	0.0);	(469323.6, 3778990.5,	409.8,	572.1,	0.0);
(469373.6, 3778990.5,	409.2,	572.1,	0.0);	(469423.6, 3778990.5,	408.6,	572.1,	0.0);
(469473.6, 3778990.5,	408.0,	572.1,	0.0);	(468673.6, 3779040.5,	415.5,	415.5,	0.0);
(468723.6, 3779040.5,	415.0,	415.0,	0.0);	(468773.6, 3779040.5,	414.8,	414.8,	0.0);
(468823.6, 3779040.5,	414.9,	414.9,	0.0);	(468873.6, 3779040.5,	414.9,	414.9,	0.0);
(468923.6, 3779040.5,	415.0,	415.0,	0.0);	(468973.6, 3779040.5,	414.1,	414.1,	0.0);
*** AERMOD - VERSION 19191 ***	*** CWP Implementation, Muscoy			***			05/14/20
*** AERMET - VERSION 16216 ***	*** (Existing Plus Project - Existing No Project) > 100 trucks/day			***			15:30:35
							PAGE 25
*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*							
*** DISCRETE CARTESIAN RECEPTORS ***							
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)							
(METERS)							
(469023.6, 3779040.5,	412.9,	412.9,	0.0);	(469054.4, 3779040.5,	412.5,	412.5,	0.0);
(469123.6, 3779040.5,	412.2,	571.5,	0.0);	(469173.6, 3779040.5,	412.4,	572.1,	0.0);
(469223.6, 3779040.5,	411.9,	572.1,	0.0);	(469273.6, 3779040.5,	411.3,	572.1,	0.0);
(469323.6, 3779040.5,	410.9,	572.1,	0.0);	(469373.6, 3779040.5,	410.0,	572.1,	0.0);
(469423.6, 3779040.5,	409.3,	572.1,	0.0);	(469473.6, 3779040.5,	408.7,	572.1,	0.0);
(468673.6, 3779090.5,	416.6,	416.6,	0.0);	(468723.6, 3779090.5,	416.0,	416.0,	0.0);
(468773.6, 3779090.5,	415.7,	415.7,	0.0);	(468823.6, 3779090.5,	415.4,	415.4,	0.0);
(468873.6, 3779090.5,	415.0,	415.0,	0.0);	(468923.6, 3779090.5,	414.9,	414.9,	0.0);
(468973.6, 3779090.5,	414.6,	414.6,	0.0);	(469023.6, 3779090.5,	413.7,	413.7,	0.0);
(469054.4, 3779090.5,	413.3,	559.6,	0.0);	(469123.6, 3779090.5,	413.3,	572.1,	0.0);
(469173.6, 3779090.5,	413.3,	572.1,	0.0);	(469223.6, 3779090.5,	412.5,	572.1,	0.0);
(469273.6, 3779090.5,	411.9,	572.1,	0.0);	(469323.6, 3779090.5,	411.3,	572.1,	0.0);
(468673.6, 3779140.5,	417.4,	417.4,	0.0);	(468723.6, 3779140.5,	417.0,	417.0,	0.0);
(468773.6, 3779140.5,	416.4,	416.4,	0.0);	(468823.6, 3779140.5,	416.1,	416.1,	0.0);
(468873.6, 3779140.5,	416.0,	416.0,	0.0);	(468923.6, 3779140.5,	415.9,	415.9,	0.0);
(468973.6, 3779140.5,	415.1,	559.1,	0.0);	(469023.6, 3779140.5,	414.6,	559.6,	0.0);
(469054.4, 3779140.5,	414.4,	572.0,	0.0);	(469223.6, 3779140.5,	413.3,	572.1,	0.0);
(469273.6, 3779140.5,	412.4,	572.1,	0.0);	(468673.6, 3779190.5,	418.2,	418.2,	0.0);
(468723.6, 3779190.5,	418.0,	418.0,	0.0);	(468773.6, 3779190.5,	417.4,	417.4,	0.0);
(468823.6, 3779190.5,	416.1,	416.1,	0.0);	(468873.6, 3779190.5,	416.1,	416.1,	0.0);
(468923.6, 3779190.5,	416.1,	559.6,	0.0);	(468973.6, 3779190.5,	416.0,	559.6,	0.0);
(469023.6, 3779190.5,	415.5,	572.1,	0.0);	(469054.4, 3779190.5,	415.4,	572.1,	0.0);
(468673.6, 3779240.5,	419.0,	419.0,	0.0);	(468723.6, 3779240.5,	418.7,	418.7,	0.0);
(468773.6, 3779240.5,	418.3,	418.3,	0.0);	(468823.6, 3779240.5,	417.4,	417.4,	0.0);
(468873.6, 3779240.5,	416.7,	559.6,	0.0);	(468923.6, 3779240.5,	417.1,	559.6,	0.0);
(468973.6, 3779240.5,	416.9,	572.0,	0.0);	(469023.6, 3779240.5,	416.3,	572.1,	0.0);
(469267.7, 3779173.6,	413.2,	572.1,	0.0);	(468723.6, 3779290.5,	420.2,	420.2,	0.0);

Model Output - Muscoy

(468773.6, 3779290.5,	419.7,	419.7,	0.0);	(468823.6, 3779290.5,	418.9,	418.9,	0.0);
(468873.6, 3779290.5,	418.2,	559.6,	0.0);	(468923.6, 3779290.5,	418.2,	571.7,	0.0);
(468973.6, 3779290.5,	417.7,	572.1,	0.0);	(468673.6, 3779340.5,	421.1,	421.1,	0.0);
(468723.6, 3779340.5,	420.7,	420.7,	0.0);	(468773.6, 3779340.5,	420.4,	420.4,	0.0);
(468823.6, 3779340.5,	420.0,	559.6,	0.0);	(468873.6, 3779340.5,	419.2,	559.6,	0.0);
(468923.6, 3779340.5,	419.2,	572.1,	0.0);	(468673.6, 3779390.5,	422.0,	422.0,	0.0);
(468723.6, 3779390.5,	421.9,	421.9,	0.0);	(468773.6, 3779390.5,	421.1,	559.6,	0.0);
(468823.6, 3779390.5,	420.3,	559.6,	0.0);	(468873.6, 3779390.5,	420.1,	572.1,	0.0);
(468923.6, 3779390.5,	420.3,	572.1,	0.0);	(468673.6, 3779440.5,	423.1,	423.1,	0.0);
(468723.6, 3779440.5,	422.7,	422.7,	0.0);	(468773.6, 3779440.5,	421.7,	559.6,	0.0);
(468823.6, 3779440.5,	421.4,	571.5,	0.0);	(468873.6, 3779440.5,	421.4,	572.1,	0.0);
(468923.6, 3779440.5,	421.6,	572.1,	0.0);	(468973.6, 3779440.5,	420.6,	572.1,	0.0);
(469021.2, 3779453.3,	420.4,	572.1,	0.0);	(468673.6, 3779490.5,	423.9,	423.9,	0.0);
(468723.6, 3779490.5,	423.0,	559.6,	0.0);	(468773.6, 3779490.5,	422.7,	559.6,	0.0);
(468823.6, 3779490.5,	422.2,	572.1,	0.0);	(468873.6, 3779490.5,	422.5,	572.1,	0.0);
(468923.6, 3779490.5,	422.3,	572.1,	0.0);	(468973.6, 3779490.5,	421.5,	572.1,	0.0);
(468673.6, 3779540.5,	424.5,	424.5,	0.0);	(468723.6, 3779540.5,	423.9,	559.6,	0.0);
(468773.6, 3779540.5,	424.0,	559.6,	0.0);	(468823.6, 3779540.5,	423.6,	572.1,	0.0);
*** AERMOD - VERSION 19191 ***	*** CWP Implementation, Muscog			***			05/14/20
*** AERMET - VERSION 16216 ***	*** (Existing Plus Project - Existing No Project) > 100 trucks/day			***			15:30:35
*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ U*							PAGE 26

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*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

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(468873.6, 3779540.5, 423.4, 572.1, 0.0);	(468923.6, 3779540.5, 423.3, 572.1, 0.0);
(468973.6, 3779540.5, 422.6, 572.1, 0.0);	(468683.6, 3779565.8, 424.9, 559.6, 0.0);
(468733.6, 3779565.8, 424.4, 559.6, 0.0);	(468783.6, 3779565.8, 424.1, 572.0, 0.0);
(468833.6, 3779565.8, 424.2, 572.1, 0.0);	(468883.6, 3779565.8, 423.9, 572.1, 0.0);
(468933.6, 3779565.8, 423.5, 572.1, 0.0);	(468983.6, 3779565.8, 423.1, 572.1, 0.0);
(468683.6, 3779615.8, 425.7, 559.6, 0.0);	(468733.6, 3779615.8, 425.6, 559.6, 0.0);
(468783.6, 3779615.8, 425.5, 572.1, 0.0);	(468833.6, 3779615.8, 425.4, 572.1, 0.0);
(468883.6, 3779615.8, 425.4, 572.1, 0.0);	(468933.6, 3779615.8, 424.5, 572.1, 0.0);
(468969.1, 3779615.8, 424.4, 572.1, 0.0);	(468683.6, 3779665.8, 427.1, 559.6, 0.0);
(468733.6, 3779665.8, 426.7, 571.5, 0.0);	(468833.6, 3779665.8, 426.4, 572.1, 0.0);
(468883.6, 3779665.8, 426.3, 572.1, 0.0);	(468919.1, 3779665.8, 426.0, 572.1, 0.0);
(468683.6, 3779715.8, 428.7, 559.6, 0.0);	(468733.6, 3779715.8, 428.3, 571.7, 0.0);
(468683.6, 3779765.8, 433.0, 559.6, 0.0);	(468683.6, 3779815.8, 439.0, 559.2, 0.0);
(468733.6, 3779815.8, 442.4, 559.6, 0.0);	(468802.1, 3779842.6, 429.7, 572.1, 0.0);
(468319.3, 3779935.7, 435.8, 435.8, 0.0);	(468369.3, 3779935.7, 435.2, 435.2, 0.0);
(468419.3, 3779935.7, 434.4, 434.4, 0.0);	(468469.3, 3779935.7, 433.9, 433.9, 0.0);
(468519.3, 3779935.7, 433.5, 433.5, 0.0);	(468569.3, 3779935.7, 433.5, 433.5, 0.0);
(468621.4, 3779927.5, 433.6, 559.6, 0.0);	(468669.3, 3779935.7, 433.2, 559.6, 0.0);
(468719.3, 3779935.7, 432.5, 572.1, 0.0);	(468319.3, 3779985.7, 436.4, 436.4, 0.0);
(468369.3, 3779985.7, 435.9, 435.9, 0.0);	(468419.3, 3779985.7, 435.5, 435.5, 0.0);
(468469.3, 3779985.7, 434.5, 434.5, 0.0);	(468519.3, 3779985.7, 434.8, 434.8, 0.0);
(468569.3, 3779985.7, 434.9, 434.9, 0.0);	(468619.3, 3779985.7, 434.4, 559.6, 0.0);
(468650.8, 3779988.8, 434.0, 559.6, 0.0);	(468885.9, 3779833.1, 429.3, 572.1, 0.0);
(468319.3, 3780035.7, 437.4, 437.4, 0.0);	(468369.3, 3780035.7, 436.7, 436.7, 0.0);

Model Output - Muscoy
CWP Implementation, 2020 Vehicle Emission Factors

(468419.3, 3780035.7,	436.4,	436.4,	0.0);	(468469.3, 3780035.7,	435.9,	435.9,	0.0);
(468519.3, 3780035.7,	436.4,	436.4,	0.0);	(468569.3, 3780035.7,	436.3,	436.3,	0.0);
(468619.3, 3780035.7,	435.0,	559.6,	0.0);	(468319.3, 3780085.7,	438.2,	438.2,	0.0);
(468369.3, 3780085.7,	437.8,	437.8,	0.0);	(468419.3, 3780085.7,	437.2,	437.2,	0.0);
(468469.3, 3780085.7,	437.2,	437.2,	0.0);	(468519.3, 3780085.7,	437.6,	437.6,	0.0);
(468569.3, 3780085.7,	436.7,	559.6,	0.0);	(468319.3, 3780135.7,	438.9,	438.9,	0.0);
(468369.3, 3780135.7,	438.5,	438.5,	0.0);	(468419.3, 3780135.7,	438.2,	438.2,	0.0);
(468469.3, 3780135.7,	438.8,	438.8,	0.0);	(468519.3, 3780135.7,	438.3,	438.3,	0.0);
(468319.3, 3780185.7,	439.9,	439.9,	0.0);	(468369.3, 3780185.7,	439.4,	439.4,	0.0);
(468419.3, 3780185.7,	439.3,	439.3,	0.0);	(468469.3, 3780185.7,	439.6,	439.6,	0.0);
(468519.3, 3780185.7,	439.1,	439.1,	0.0);	(468319.3, 3780235.7,	440.9,	440.9,	0.0);
(468369.3, 3780235.7,	440.3,	440.3,	0.0);	(468419.3, 3780235.7,	440.3,	440.3,	0.0);
(468469.3, 3780235.7,	440.7,	440.7,	0.0);	(468319.3, 3780285.7,	442.0,	442.0,	0.0);
(468369.3, 3780285.7,	441.6,	441.6,	0.0);	(468419.3, 3780285.7,	441.3,	441.3,	0.0);
(468299.7, 3779721.0,	430.6,	430.6,	0.0);	(468349.7, 3779721.0,	430.7,	430.7,	0.0);
(468399.7, 3779721.0,	430.7,	430.7,	0.0);	(468449.7, 3779721.0,	431.0,	431.0,	0.0);
(468499.7, 3779721.0,	430.3,	430.3,	0.0);	(468549.7, 3779721.0,	429.0,	429.0,	0.0);
(468599.7, 3779721.0,	428.3,	443.1,	0.0);	(468649.7, 3779721.0,	428.5,	559.6,	0.0);
(468299.7, 3779771.0,	432.1,	432.1,	0.0);	(468349.7, 3779771.0,	432.1,	432.1,	0.0);
(468399.7, 3779771.0,	432.0,	432.0,	0.0);	(468449.7, 3779771.0,	431.5,	431.5,	0.0);
(468499.7, 3779771.0,	430.7,	430.7,	0.0);	(468549.7, 3779771.0,	429.4,	429.4,	0.0);
*** AERMOD - VERSION 19191 ***	*** CWP Implementation, Muscoy			***			05/14/20
*** AERMET - VERSION 16216 ***	*** (Existing Plus Project - Existing No Project) > 100 trucks/day			***			15:30:35
							PAGE 27

*** MODELOPTS: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(468599.7, 3779771.0,	429.3,	559.2,	0.0);	(468649.7, 3779771.0,	433.4,	559.6,	0.0);
(468299.7, 3779821.0,	433.5,	433.5,	0.0);	(468349.7, 3779821.0,	433.4,	433.4,	0.0);
(468399.7, 3779821.0,	432.9,	432.9,	0.0);	(468449.7, 3779821.0,	432.0,	432.0,	0.0);
(468499.7, 3779821.0,	431.2,	431.2,	0.0);	(468549.7, 3779821.0,	430.6,	430.6,	0.0);
(468599.7, 3779821.0,	430.2,	559.6,	0.0);	(468649.7, 3779821.0,	435.3,	559.6,	0.0);
(468299.7, 3779871.0,	434.6,	434.6,	0.0);	(468349.7, 3779871.0,	434.3,	434.3,	0.0);
(468399.7, 3779871.0,	433.5,	433.5,	0.0);	(468449.7, 3779871.0,	432.9,	432.9,	0.0);
(468499.7, 3779871.0,	431.9,	431.9,	0.0);	(468549.7, 3779871.0,	431.7,	431.7,	0.0);
(468599.7, 3779871.0,	431.3,	559.6,	0.0);	(468649.7, 3779871.0,	434.1,	559.6,	0.0);
(468299.7, 3779921.0,	435.5,	435.5,	0.0);	(468349.7, 3779921.0,	435.2,	435.2,	0.0);
(468399.7, 3779921.0,	434.4,	434.4,	0.0);	(468449.7, 3779921.0,	433.7,	433.7,	0.0);
(468499.7, 3779921.0,	433.3,	433.3,	0.0);	(468549.7, 3779921.0,	432.9,	432.9,	0.0);
(468599.7, 3779921.0,	433.4,	559.6,	0.0);	(468649.7, 3779921.0,	433.3,	559.6,	0.0);
(468038.4, 3780333.3,	444.9,	444.9,	0.0);	(468088.4, 3780333.3,	444.7,	444.7,	0.0);
(468138.4, 3780333.3,	444.1,	444.1,	0.0);	(468188.4, 3780333.3,	443.6,	443.6,	0.0);
(468238.4, 3780333.3,	443.2,	443.2,	0.0);	(468288.4, 3780333.3,	443.3,	443.3,	0.0);
(468338.4, 3780333.3,	442.9,	442.9,	0.0);	(468369.8, 3780336.4,	443.1,	443.1,	0.0);
(468038.4, 3780383.3,	445.7,	445.7,	0.0);	(468088.4, 3780383.3,	445.3,	445.3,	0.0);
(468138.4, 3780383.3,	444.8,	444.8,	0.0);	(468188.4, 3780383.3,	444.3,	444.3,	0.0);
(468238.4, 3780383.3,	444.4,	444.4,	0.0);	(468288.4, 3780383.3,	444.4,	444.4,	0.0);
(468338.4, 3780383.3,	444.2,	444.2,	0.0);	(468038.4, 3780433.3,	446.7,	446.7,	0.0);

Model Output - Muscoy
CWP Implementation, 2020 Vehicle Emission Factors

(468088.4, 3780433.3,	446.2,	446.2,	0.0);	(468138.4, 3780433.3,	445.5,	445.5,	0.0);
(468188.4, 3780433.3,	445.1,	445.1,	0.0);	(468238.4, 3780433.3,	445.6,	445.6,	0.0);
(468288.4, 3780433.3,	445.7,	445.7,	0.0);	(468038.4, 3780483.3,	447.6,	447.6,	0.0);
(468088.4, 3780483.3,	447.3,	447.3,	0.0);	(468138.4, 3780483.3,	446.9,	446.9,	0.0);
(468188.4, 3780483.3,	446.7,	446.7,	0.0);	(468238.4, 3780483.3,	446.8,	446.8,	0.0);
(468038.4, 3780533.3,	448.5,	448.5,	0.0);	(468088.4, 3780533.3,	448.3,	448.3,	0.0);
(468138.4, 3780533.3,	447.9,	447.9,	0.0);	(468188.4, 3780533.3,	447.5,	447.5,	0.0);
(468238.4, 3780533.3,	447.8,	447.8,	0.0);	(468038.4, 3780583.3,	449.7,	449.7,	0.0);
(468088.4, 3780583.3,	449.3,	449.3,	0.0);	(468138.4, 3780583.3,	448.8,	448.8,	0.0);
(468188.4, 3780583.3,	448.8,	448.8,	0.0);	(468038.4, 3780633.3,	451.2,	451.2,	0.0);
(468088.4, 3780633.3,	450.6,	450.6,	0.0);	(468138.4, 3780633.3,	450.3,	450.3,	0.0);
(467801.6, 3780684.4,	453.4,	453.4,	0.0);	(467851.6, 3780684.4,	453.0,	453.0,	0.0);
(467901.6, 3780684.4,	452.8,	452.8,	0.0);	(467951.6, 3780684.4,	452.2,	452.2,	0.0);
(468001.6, 3780684.4,	451.7,	451.7,	0.0);	(468051.6, 3780684.4,	451.1,	451.1,	0.0);
(468101.6, 3780684.4,	450.9,	450.9,	0.0);	(468133.0, 3780687.5,	450.8,	450.8,	0.0);
(467801.6, 3780734.4,	454.7,	454.7,	0.0);	(467851.6, 3780734.4,	454.3,	454.3,	0.0);
(467901.6, 3780734.4,	453.9,	453.9,	0.0);	(467951.6, 3780734.4,	453.7,	453.7,	0.0);
(468001.6, 3780734.4,	453.2,	453.2,	0.0);	(468051.6, 3780734.4,	451.9,	451.9,	0.0);
(468101.6, 3780734.4,	452.3,	452.3,	0.0);	(467801.6, 3780784.4,	455.8,	455.8,	0.0);
(467851.6, 3780784.4,	455.3,	455.3,	0.0);	(467901.6, 3780784.4,	454.9,	454.9,	0.0);
(467951.6, 3780784.4,	454.2,	454.2,	0.0);	(468001.6, 3780784.4,	453.1,	453.1,	0.0);
(468051.6, 3780784.4,	453.4,	453.4,	0.0);	(467801.6, 3780834.4,	456.8,	456.8,	0.0);
(467851.6, 3780834.4,	456.2,	456.2,	0.0);	(467901.6, 3780834.4,	455.8,	455.8,	0.0);
(467951.6, 3780834.4,	455.3,	455.3,	0.0);	(468001.6, 3780834.4,	454.7,	454.7,	0.0);
(467901.6, 3780884.4,	456.5,	456.5,	0.0);	(467951.6, 3780884.4,	456.2,	456.2,	0.0);
(467989.7, 3780876.1,	455.7,	455.7,	0.0);	(467951.6, 3780934.4,	457.2,	457.2,	0.0);
(468273.6, 3780631.5,	450.0,	450.0,	0.0);	(468230.8, 3780673.2,	450.8,	450.8,	0.0);
(468180.8, 3780723.2,	451.9,	451.9,	0.0);	(468144.0, 3780774.2,	453.0,	453.0,	0.0);
(468238.8, 3780585.4,	448.9,	448.9,	0.0);				

Model Output - Muscoy

CWP Implementation, 2020 Vehicle Emission Factors

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*** AERMOD - VERSION 19191 *** *** CWP Implementation, Muscoy *** 05/14/20
*** AERMET - VERSION 16216 *** *** (Existing Plus Project - Existing No Project) > 100 trucks/day *** 15:30:35
                                                                                                     PAGE 29
*** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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

[illegible]

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,

Model Output - Muscoy
CWP Implementation, 2020 Vehicle Emission Factors

[illegible]

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*** MODELOPTs:      RegDFault  CONC  ELEV  URBAN  ADJ_U*
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*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file: ..\met data\FONT_v9.SFC

Profile file: ..\met data\FONT v9.PFL

Surface format: FREE

Profile format: FREE

Surface station no.: 3102

Name: UNKNOWN

Year: 2011

Upper air station no.: 3190

Name: UNKNOWN

Year: 2011

Met Version: 16216

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
11	01	01	1	01	-18.5	0.194	-9.000	-9.000	-999.	204.	41.2	0.25	2.82	1.00	1.80	69.	9.1	276.4	5.5			
11	01	01	1	02	-23.8	0.239	-9.000	-9.000	-999.	281.	63.0	0.25	2.82	1.00	2.20	52.	9.1	275.4	5.5			
11	01	01	1	03	-18.5	0.194	-9.000	-9.000	-999.	205.	41.2	0.25	2.82	1.00	1.80	32.	9.1	275.4	5.5			
11	01	01	1	04	-1.4	0.067	-9.000	-9.000	-999.	57.	18.3	0.25	2.82	1.00	0.40	27.	9.1	274.2	5.5			
11	01	01	1	05	-18.6	0.194	-9.000	-9.000	-999.	204.	41.2	0.25	2.82	1.00	1.80	51.	9.1	274.2	5.5			
11	01	01	1	06	-29.7	0.296	-9.000	-9.000	-999.	387.	96.6	0.25	2.82	1.00	2.70	53.	9.1	274.2	5.5			
11	01	01	1	07	-24.0	0.239	-9.000	-9.000	-999.	282.	63.0	0.25	2.82	1.00	2.20	70.	9.1	274.2	5.5			
11	01	01	1	08	-8.4	0.138	-9.000	-9.000	-999.	127.	27.3	0.25	2.82	0.54	1.30	72.	9.1	275.4	5.5			
11	01	01	1	09	44.3	0.280	0.571	0.005	147.	356.	-43.5	0.25	2.82	0.32	2.20	67.	9.1	277.5	5.5			
11	01	01	1	10	122.7	0.264	0.952	0.005	247.	326.	-13.2	0.25	2.82	0.25	1.80	83.	9.1	279.9	5.5			
11	01	01	1	11	179.8	0.316	1.733	0.005	1017.	426.	-15.4	0.25	2.82	0.22	2.20	58.	9.1	282.0	5.5			
11	01	01	1	12	206.0	0.320	1.940	0.008	1244.	435.	-14.0	0.25	2.82	0.21	2.20	115.	9.1	283.1	5.5			
11	01	01	1	13	132.6	0.214	1.733	0.009	1377.	243.	-6.5	0.25	2.82	0.21	1.30	147.	9.1	284.2	5.5			
11	01	01	1	14	147.0	0.216	1.818	0.009	1431.	242.	-6.0	0.25	2.82	0.23	1.30	219.	9.1	284.9	5.5			
11	01	01	1	15	104.0	0.208	1.633	0.009	1468.	228.	-7.6	0.25	2.82	0.26	1.30	126.	9.1	285.4	5.5			
11	01	01	1	16	26.4	0.140	1.037	0.009	1477.	127.	-9.1	0.25	2.82	0.35	0.90	151.	9.1	284.9	5.5			
11	01	01	1	17	-9.0	0.137	-9.000	-9.000	-999.	121.	24.9	0.25	2.82	0.63	1.30	69.	9.1	283.1	5.5			
11	01	01	1	18	-33.4	0.342	-9.000	-9.000	-999.	481.	129.0	0.25	2.82	1.00	3.10	81.	9.1	281.4	5.5			
11	01	01	1	19	-33.6	0.342	-9.000	-9.000	-999.	481.	128.9	0.25	2.82	1.00	3.10	51.	9.1	279.9	5.5			
11	01	01	1	20	-23.6	0.239	-9.000	-9.000	-999.	287.	63.1	0.25	2.82	1.00	2.20	77.	9.1	278.8	5.5			
11	01	01	1	21	-18.5	0.194	-9.000	-9.000	-999.	205.	41.2	0.25	2.82	1.00	1.80	53.	9.1	277.5	5.5			
11	01	01	1	22	-23.7	0.239	-9.000	-9.000	-999.	281.	63.0	0.25	2.82	1.00	2.20	58.	9.1	277.5	5.5			

First hour of profile data

YR	MO	DY	HR	HEIGHT	F	WDIR	WSPD	AMB	TMP	sigmaA	sigmaW	sigmaV
11	01	01	01	5.5	0	-999.	-99.00	276.5	99.0	-99.00	-99.00	-99.00
11	01	01	01	9.1	1	69.	1.80	-999.0	99.0	-99.00	-99.00	-99.00

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

Model Output - Muscoy

CWP Implementation, 2020 Vehicle Emission Factors

*** AERMOD - VERSION 19191 *** *** CWP Implementation, Muscoy *** 05/14/20
*** AERMET - VERSION 16216 *** *** (Existing Plus Project - Existing No Project) > 100 trucks/day *** 15:30:35
PAGE 41

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE SUMMARY OF MAXIMUM PERIOD (43848 HRS) RESULTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
ALL	1ST HIGHEST VALUE IS	0.00687 AT (469198.21, 3777316.07, 385.23, 385.23, 0.00)	DC	
	2ND HIGHEST VALUE IS	0.00673 AT (469148.21, 3777316.07, 385.37, 385.37, 0.00)	DC	
	3RD HIGHEST VALUE IS	0.00579 AT (469448.21, 3777416.07, 384.46, 384.46, 0.00)	DC	
	4TH HIGHEST VALUE IS	0.00564 AT (469198.21, 3777366.07, 386.08, 386.08, 0.00)	DC	
	5TH HIGHEST VALUE IS	0.00555 AT (469148.21, 3777366.07, 385.95, 385.95, 0.00)	DC	
	6TH HIGHEST VALUE IS	0.00545 AT (469398.21, 3777416.07, 384.99, 384.99, 0.00)	DC	
	7TH HIGHEST VALUE IS	0.00521 AT (469348.21, 3777416.07, 385.41, 385.41, 0.00)	DC	
	8TH HIGHEST VALUE IS	0.00502 AT (469298.21, 3777416.07, 385.76, 385.76, 0.00)	DC	
	9TH HIGHEST VALUE IS	0.00488 AT (469248.21, 3777416.07, 386.24, 386.24, 0.00)	DC	
	10TH HIGHEST VALUE IS	0.00486 AT (469448.21, 3777466.07, 385.17, 385.17, 0.00)	DC	

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

Model Output - Muscoy

CWP Implementation, 2020 Vehicle Emission Factors

```
*** AERMOD - VERSION 19191 ***   *** CWP Implementation, Muscoy   ***   05/14/20
*** AERMET - VERSION 16216 ***   *** (Existing Plus Project - Existing No Project) > 100 trucks/day ***   15:30:35
                                                                                                     PAGE  42

*** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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

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

A Total of           0 Fatal Error Message(s)
A Total of           7 Warning Message(s)
A Total of          838 Informational Message(s)

A Total of          43848 Hours Were Processed

A Total of           40 Calm Hours Identified

A Total of          798 Missing Hours Identified (  1.82 Percent)

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

***** WARNING MESSAGES *****
ME W186   1314   MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used           0.50
ME W187   1314   MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET
MX W438   8800   METQA: Convective Velocity Data Out-of-Range.  KURDAT =          12010216
MX W438  11536   METQA: Convective Velocity Data Out-of-Range.  KURDAT =          12042516
MX W420  16779   METQA: Wind Speed Out-of-Range.  KURDAT =          12113003
MX W450  26305   CHKDAT: Record Out of Sequence in Meteorological File at:          15010101
MX W450  26305   CHKDAT: Record Out of Sequence in Meteorological File at:          1 year gap

*****
*** AERMOD Finishes Successfully ***
*****
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Appendix D. Risk Calculations

Appendices

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HARP2 Output Cancer Risks

BLOOMINGTON HARP OUTPUT:

*HARP - HRACalc v19044 5/28/2020 2:55:05 PM - Cancer Risk - Input File: C:\Users\sbush\Desktop\harp output\SBC25\Bloomington2040HRAInput.hra

INDEX	POLID	POLABBREV	CONC	RISK_SUM	SCENARIO	INH_RISK	SOIL_RISK	DERMAL_RISK	MMILK_RISK
1	9901	DieselExhPM	0.00351	2.39E-06	30YrCancerHighEnd_InhSoilDermMM	2.39E-06	0.00E+00	0.00E+00	0.00E+00

HARP - HRACalc v19044 5/28/2020 2:54:39 PM - Cancer Risk - Input File: C:\Users\sbush\Desktop\harp output\SBC25\Bloomington2020HRAInput.hra

INDEX	POLID	POLABBREV	CONC	RISK_SUM	SCENARIO	INH_RISK	SOIL_RISK	DERMAL_RISK	MMILK_RISK
1	9901	DieselExhPM	0.01183	8.07E-06	30YrCancerHighEnd_InhSoilDermMM	8.07E-06	0.00E+00	0.00E+00	0.00E+00

*using 2020 vehicle emission rates

HARP - HRACalc v19044 6/2/2020 12:41:27 PM - Cancer Risk - Input File: C:\Users\sbush\Desktop\harp output\SBC25\30yrBloomExistingHRAInput.hra

INDEX	POLID	POLABBREV	CONC	RISK_SUM	SCENARIO	INH_RISK	SOIL_RISK	DERMAL_RISK	MMILK_RISK
1	9901	DieselExhPM	0.38257	2.61E-04	30YrCancerHighEnd_Inh_FAH3to70	2.61E-04	0.00E+00	0.00E+00	0.00E+00

*risks for Existing No Project scenario

MUSCOY HARP OUTPUT:

*HARP - HRACalc v19044 5/28/2020 2:55:56 PM - Cancer Risk - Input File: C:\Users\sbush\Desktop\harp output\SBC25\Muscoy2040HRAInput.hra

INDEX	POLID	POLABBREV	CONC	RISK_SUM	SCENARIO	INH_RISK	SOIL_RISK	DERMAL_RISK	MMILK_RISK
1	9901	DieselExhPM	0.00193	1.32E-06	30YrCancerHighEnd_InhSoilDermMM	1.32E-06	0.00E+00	0.00E+00	0.00E+00

HARP - HRACalc v19044 5/28/2020 2:55:35 PM - Cancer Risk - Input File: C:\Users\sbush\Desktop\harp output\SBC25\Muscoy2020HRAInput.hra

INDEX	POLID	POLABBREV	CONC	RISK_SUM	SCENARIO	INH_RISK	SOIL_RISK	DERMAL_RISK	MMILK_RISK
1	9901	DieselExhPM	0.00687	4.68E-06	30YrCancerHighEnd_InhSoilDermMM	4.68E-06	0.00E+00	0.00E+00	0.00E+00

*using 2020 vehicle emission rates

HARP - HRACalc v19044 6/2/2020 1:53:39 PM - Cancer Risk - Input File: C:\Users\sbush\Desktop\harp output\SBC25\30yr_Muscoy_ExistingOnlyHRAInput.hra

INDEX	POLID	POLABBREV	CONC	RISK_SUM	SCENARIO	INH_RISK	SOIL_RISK	DERMAL_RISK	MMILK_RISK
1	9901	DieselExhPM	0.07201	4.91E-05	30YrCancerHighEnd_Inh_FAH3to70	4.91E-05	0.00E+00	0.00E+00	0.00E+00

*risks for Existing No Project scenario

HARP2 Output
Non-cancer Risks - Chronic Hazards

BLOOMINGTON HARP OUTPUT:

*HARP - HRACalc v19044 5/28/2020 2:55:05 PM - Chronic Risk - Input File: C:\Users\sbush\Desktop\harp output\SBC25\Bloomington2040HRAInput.hra

INDEX	POLID	POLABBREV	CONC	SCENARIO	RESP
				NonCancerChronicHighEnd_InhSoilDermMMi	7.02E-04
1	9901	DieselExhPM	0.00351	lk	2040 vehicle emission rates (horizon year)

*HARP - HRACalc v19044 5/28/2020 2:54:39 PM - Chronic Risk - Input File: C:\Users\sbush\Desktop\harp output\SBC25\Bloomington2020HRAInput.hra

INDEX	POLID	POLABBREV	CONC	SCENARIO	RESP
				NonCancerChronicHighEnd_InhSoilDermMMi	
1	9901	DieselExhPM	0.01183	lk	2.37E-03 2020 vehicle emission rates

*HARP - HRACalc v19044 6/2/2020 3:30:45 PM - Chronic Risk - Input File: C:\Users\sbush\Desktop\harp output\SBC25\30yrBloomExistingHRAInput.hra

INDEX	POLID	POLABBREV	CONC	SCENARIO	RESP
				NonCancerChronicHighEnd_InhSoilDermMMi	
1	9901	DieselExhPM	0.38257	lk	7.65E-02 chronic hazard index for Existing No Project scenario

MUSCOY HARP OUTPUT:

*HARP - HRACalc v19044 5/28/2020 2:55:56 PM - Chronic Risk - Input File: C:\Users\sbush\Desktop\harp output\SBC25\Muscoy2040HRAInput.hra

INDEX	POLID	POLABBREV	CONC	SCENARIO	RESP
				NonCancerChronicHighEnd_InhSoilDermMMi	3.86E-04
1	9901	DieselExhPM	0.00193	lk	2040 vehicle emission rates (horizon year)

*HARP - HRACalc v19044 5/28/2020 2:55:35 PM - Chronic Risk - Input File: C:\Users\sbush\Desktop\harp output\SBC25\Muscoy2020HRAInput.hra

INDEX	POLID	POLABBREV	CONC	SCENARIO	RESP
				NonCancerChronicHighEnd_InhSoilDermMMi	
1	9901	DieselExhPM	0.00687	lk	1.37E-03 2020 vehicle emission rates

*HARP - HRACalc v19044 6/2/2020 3:31:30 PM - Chronic Risk - Input File: C:\Users\sbush\Desktop\harp

INDEX	POLID	POLABBREV	CONC	SCENARIO	RESP
				NonCancerChronicHighEnd_InhSoilDermMMi	
1	9901	DieselExhPM	0.07201	lk	1.44E-02 chronic hazard index for Existing No Project scenario

Key to Toxicological Endpoint

RESP Respiratory System