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1                AERMOD PRIME - (DATED 23132 )

                AERMODPrMSPx VERSION
                (C) COPYRIGHT 1998-2022, Trinity Consultants

Run Began on 6/19/2025 at 10:35:51

** BREEZE AERMOD
** Trinity Consultants
** VERSION 12.1

CO STARTING
CO TITLEONE Collinsville Substation Construction DPM PM10 Uncontrolled
CO MODELOPT DFAULT CONC NODRYDPLT NOWETDPLT
CO RUNORNOT RUN
CO AVERTIME ANNUAL
CO POLLUTID PM10
CO FLAGPOLE 1.5
CO FINISHED

SO STARTING
SO ELEVUNIT METERS
SO LOCATION QXDKY000 AREA 602027.2 4215312.6 0
** SRCDESCR Construction Site
SO SRCPARAM QXDKY000 1.73E-07 3 153.9 221.8 -0.4 1
SO SRCGROUP ALL
SO FINISHED

RE STARTING
RE ELEVUNIT METERS
RE DISCCART 600966.8 4214758 0 0 1.5
** SENSITIV
** RCPDESCR R1
RE DISCCART 600860.9 4215042.4 0 0 1.5
** SENSITIV
** RCPDESCR R2
RE FINISHED

ME STARTING
ME SURFFILE "C:\Users\ryan\MYDRIV~1.COM\CI777F~1\24-99C~1\061825\AERMOD\DOW_2017.SFC"
** SURFFILE "C:\Users\ryan\MYDRIV~1.COM\CI777F~1\24-99C~1\061825\AERMOD\DOW_2017.SFC"
ME PROFFILE "C:\Users\ryan\MYDRIV~1.COM\CI777F~1\24-99C~1\061825\AERMOD\DOW_2017.PFL"
** PROFFILE "C:\Users\ryan\MYDRIV~1.COM\CI777F~1\24-99C~1\061825\AERMOD\DOW_2017.PFL"
ME SURFDATA 23254 2017
ME UAIRDATA 23230 2017
ME SITEDATA 2803 2017
ME PROFBASE 0 METERS
ME FINISHED

OU STARTING
OU FILEFORM FIX
OU PLOTFILE ANNUAL ALL ALL'ANNUAL.plt 10000
OU FINISHED

** *****
** It is recommended that the user not edit any data below this line
** *****

** AMPTYPE
** AMPDATUM -1
** AMPZONE -1
** AMPHEMISPHERE

** PROJECTIONWKT
PROJCS["UTM_6326_Zone11",GEOGCS["WGS_84",DATUM["World_Geodetic_System_1984",SPHEROID["WGS_1984",6378137,298.257223563],TOWGS84[0,0,0,0,0,0,0]],PRIMEM["Greenwich",0],UNIT["Degree",0.0174532925199433]],PROJECTION["Universal_Transverse_Mercator"],PARAMETER["Zone",11],UNIT["Meter",1,AUTHORITY["EPSG","9001"]]]
** PROJECTION UTM
** DATUM WGE
** UNITS METER
** ZONE 11
** HEMISPHERE N
** ORIGINLON 0
** ORIGINLAT 0
** PARALLEL1 0
** PARALLEL2 0
** AZIMUTH 0
** SCALEFACT 0
** FALSEEAST 0
** FALSENORTH 0

** POSTFMT UNFORM
** TEMPLATE USERDEFINED
** AERMODEXE AERMOD_BREEZE_23132_64.EXE
** AERMAPEXE AERMAP_EPA_18081_64.EXE

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

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

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

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

***** WARNING MESSAGES *****
MX W403 48 PFLCNV: Turbulence data is being used w/o ADJ_U* option SigA Data

*** SETUP Finishes Successfully ***

▲ *** AERMOD - VERSION 23132 *** *** Collinsville Substation Construction DPM PM10 Uncontrolled *** 06/19/25
*** AERMET - VERSION 18081 *** *** *** 10:35:51
*** MODEL OPTS: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL SigA Data PAGE 1

*** MODEL SETUP OPTIONS SUMMARY ***

** Model Options Selected:
* Model Uses Regulatory DEFAULT Options
* Model Is Setup For Calculation of Average CONCentration Values.
* NO GAS DEPOSITION Data Provided.
* NO PARTICLE DEPOSITION Data Provided.
* Model Uses NO DRY DEPLETION. DDPLETE = F
* Model Uses NO WET DEPLETION. WETDPLT = F
* Stack-tip Downwash.
* Model Accounts for ELEVated Terrain Effects.
* Use Calms Processing Routine.
* Use Missing Data Processing Routine.
* No Exponential Decay.
* Model Uses RURAL Dispersion Only.
* TEMP_Sub - Meteorological data includes TEMP substitutions
* Model Accepts FLAGPOLE Receptor . Heights.
* The User Specified a Pollutant Type of: PM10

**Model Calculates ANNUAL Averages Only

**This Run Includes: 1 Source(s); 1 Source Group(s); and 2 Receptor(s)

with: 0 POINT(s), including
0 POINTCAP(s) and 0 POINTHOR(s)
and: 0 VOLUME source(s)
and: 1 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 a total of 0 line(s)
and: 0 SWPOINT source(s)

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

**The AERMET Input Meteorological Data Version Date: 18081

**Output Options Selected:
Model Outputs Tables of ANNUAL Averages by Receptor
Model Outputs External File(s) of High Values for Plotting (PLOTFILE 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) = 0.00 ; 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 = 3.5 MB of RAM.

**Input Runstream File: aermod.inp
**Output Print File: aermod.out

▲ *** AERMOD - VERSION 23132 *** *** Collinsville Substation Construction DPM PM10 Uncontrolled *** 06/19/25
*** AERMET - VERSION 18081 *** *** *** 10:35:51
*** MODEL OPTS: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL SigA Data PAGE 2

*** AREA SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC /METER**2)	COORD (SW CORNER) X (METERS) Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	X-DIM OF AREA (METERS)	Y-DIM OF AREA (METERS)	ORIENT. OF AREA (DEG.)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY	AIRCRAFT
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F indicates top of profile (=1) or below (=0)

*** AERMOD - VERSION 23132 *** Collinsville Substation Construction DPM PM10 Uncontrolled *** 06/19/25

*** AERMET - VERSION 18081 *** *** *** 10:35:51

*** MODELOPTS: RegDEFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL SigA Data

*** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 1 YEARS FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): QXDKY000 ,

*** SENSITIVE DISCRETE RECEPTOR POINTS ***

** CONC OF PM10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
600966.80	4214758.00	0.01887	600860.90	4215042.40	0.02249
*** AERMOD - VERSION 23132 *** Collinsville Substation Construction DPM PM10 Uncontrolled ***					
*** AERMET - VERSION 18081 *** ***					

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10:35:51
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*** MODELOPTS: RegDEFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL SigA Data

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

** CONC OF PM10 IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
ALL	1ST HIGHEST VALUE IS 0.02249 AT (600860.90, 4215042.40, 0.00, 0.00, 1.50)		SR	
	2ND HIGHEST VALUE IS 0.01887 AT (600966.80, 4214758.00, 0.00, 0.00, 1.50)		SR	
	3RD HIGHEST VALUE IS 0.00000 AT (0.00, 0.00, 0.00, 0.00, 0.00)			
	4TH HIGHEST VALUE IS 0.00000 AT (0.00, 0.00, 0.00, 0.00, 0.00)			
	5TH HIGHEST VALUE IS 0.00000 AT (0.00, 0.00, 0.00, 0.00, 0.00)			
	6TH HIGHEST VALUE IS 0.00000 AT (0.00, 0.00, 0.00, 0.00, 0.00)			
	7TH HIGHEST VALUE IS 0.00000 AT (0.00, 0.00, 0.00, 0.00, 0.00)			
	8TH HIGHEST VALUE IS 0.00000 AT (0.00, 0.00, 0.00, 0.00, 0.00)			
	9TH HIGHEST VALUE IS 0.00000 AT (0.00, 0.00, 0.00, 0.00, 0.00)			
	10TH HIGHEST VALUE IS 0.00000 AT (0.00, 0.00, 0.00, 0.00, 0.00)			

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

*** AERMOD - VERSION 23132 *** Collinsville Substation Construction DPM PM10 Uncontrolled ***
*** AERMET - VERSION 18081 *** ***

06/19/25
10:35:51
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*** MODELOPTS: RegDEFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL SigA Data

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

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

A Total of 0 Fatal Error Message(s)
A Total of 3 Warning Message(s)
A Total of 221 Informational Message(s)

A Total of 8784 Hours Were Processed

A Total of 43 Calm Hours Identified

A Total of 178 Missing Hours Identified (2.03 Percent)

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

***** WARNING MESSAGES *****
MX W403 48 PFLCNV: Turbulence data is being used w/o ADJ_U* option SigA Data
MX W403 1 PFLCNV: Turbulence data is being used w/o ADJ_U* option SigA Data
MX W481 8785 MAIN: Data Remaining After End of Year. Number of Hours= 24

*** AERMOD Finishes Successfully ***

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1                AERMOD PRIME - (DATED 23132 )

                AERMODPrMSPx VERSION
                (C) COPYRIGHT 1998-2022, Trinity Consultants

Run Began on 6/19/2025 at 10:30:40

** BREEZE AERMOD
** Trinity Consultants
** VERSION 12.1

CO STARTING
CO TITLEONE Collinsville Substation Construction DPM PM10 Controlled
CO MODELOPT DFAULT CONC NODRYDPLT NOWETDPLT
CO RUNORNOT RUN
CO AVERTIME ANNUAL
CO POLLUTID PM10
CO FLAGPOLE 1.5
CO FINISHED

SO STARTING
SO ELEVUNIT METERS
SO LOCATION QXDKY000 AREA 602027.2 4215312.6 0
** SRCDESCR Construction Site
SO SRCPARAM QXDKY000 1.02E-07 3 153.9 221.8 -0.4 1
SO SRCGROUP ALL
SO FINISHED

RE STARTING
RE ELEVUNIT METERS
RE DISCCART 600966.8 4214758 0 0 1.5
** SENSITIV
** RCPDESCR R1
RE DISCCART 600860.9 4215042.4 0 0 1.5
** SENSITIV
** RCPDESCR R2
RE FINISHED

ME STARTING
ME SURFFILE "C:\Users\ryan\MYDRIV~1.COM\CI777F~1\24-99C~1\061825\AERMOD\DOW_2017.SFC"
** SURFFILE "C:\Users\ryan\MYDRIV~1.COM\CI777F~1\24-99C~1\061825\AERMOD\DOW_2017.SFC"
ME PROFFILE "C:\Users\ryan\MYDRIV~1.COM\CI777F~1\24-99C~1\061825\AERMOD\DOW_2017.PFL"
** PROFFILE "C:\Users\ryan\MYDRIV~1.COM\CI777F~1\24-99C~1\061825\AERMOD\DOW_2017.PFL"
ME SURFDATA 23254 2017
ME UAIRDATA 23230 2017
ME SITEDATA 2803 2017
ME PROFBASE 0 METERS
ME FINISHED

OU STARTING
OU FILEFORM FIX
OU PLOTFILE ANNUAL ALL ALL'ANNUAL.plt 10000
OU FINISHED

** *****
** It is recommended that the user not edit any data below this line
** *****

** AMPTYPE
** AMPDATUM -1
** AMPZONE -1
** AMPHEMISPHERE

** PROJECTIONWKT
PROJCS["UTM_6326_Zone11",GEOGCS["WGS_84",DATUM["World_Geodetic_System_1984",SPHEROID["WGS_1984",6378137,298.257223563],TOWGS84[0,0,0,0,0,0]],PRIMEM["Greenwich",0],UNIT["Degree",0.0174532925199433]],PROJECTION["Universal_Transverse_Mercator"],PARAMETER["Zone",11],UNIT["Meter",1,AUTHORITY["EPSG","9001"]]]
** PROJECTION UTM
** DATUM WGE
** UNITS METER
** ZONE 11
** HEMISPHERE N
** ORIGINLON 0
** ORIGINLAT 0
** PARALLEL1 0
** PARALLEL2 0
** AZIMUTH 0
** SCALEFACT 0
** FALSEEAST 0
** FALSENORTH 0

** POSTFMT UNFORM
** TEMPLATE USERDEFINED
** AERMODEXE AERMOD_BREEZE_23132_64.EXE
** AERMAPEXE AERMAP_EPA_18081_64.EXE

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

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

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

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

***** WARNING MESSAGES *****
MX W403 48 PFLCNV: Turbulence data is being used w/o ADJ_U* option SigA Data

*** SETUP Finishes Successfully ***

▲ *** AERMOD - VERSION 23132 *** *** Collinsville Substation Construction DPM PM10 Controlled *** 06/19/25
*** AERMET - VERSION 18081 *** *** *** 10:30:40
PAGE 1

*** MODELOPTs: RegDEFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL SigA Data

*** MODEL SETUP OPTIONS SUMMARY ***

** Model Options Selected:
* Model Uses Regulatory DEFAULT Options
* Model Is Setup For Calculation of Average CONCentration Values.
* NO GAS DEPOSITION Data Provided.
* NO PARTICLE DEPOSITION Data Provided.
* Model Uses NO DRY DEPLETION. DDPLETE = F
* Model Uses NO WET DEPLETION. WETDPLT = F
* Stack-tip Downwash.
* Model Accounts for ELEVated Terrain Effects.
* Use Calms Processing Routine.
* Use Missing Data Processing Routine.
* No Exponential Decay.
* Model Uses RURAL Dispersion Only.
* TEMP_Sub - Meteorological data includes TEMP substitutions
* Model Accepts FLAGPOLE Receptor . Heights.
* The User Specified a Pollutant Type of: PM10

**Model Calculates ANNUAL Averages Only

**This Run Includes: 1 Source(s); 1 Source Group(s); and 2 Receptor(s)

with: 0 POINT(s), including
0 POINTCAP(s) and 0 POINTHOR(s)
and: 0 VOLUME source(s)
and: 1 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 a total of 0 line(s)
and: 0 SWPOINT source(s)

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

**The AERMET Input Meteorological Data Version Date: 18081

**Output Options Selected:
Model Outputs Tables of ANNUAL Averages by Receptor
Model Outputs External File(s) of High Values for Plotting (PLOTFILE 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) = 0.00 ; 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 = 3.5 MB of RAM.

**Input Runstream File: aermod.inp
**Output Print File: aermod.out

▲ *** AERMOD - VERSION 23132 *** *** Collinsville Substation Construction DPM PM10 Controlled *** 06/19/25
*** AERMET - VERSION 18081 *** *** *** 10:30:40
PAGE 2

*** MODELOPTs: RegDEFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL SigA Data

*** AREA SOURCE DATA ***

SOURCE ID	NUMBER PART.	EMISSION RATE (GRAMS/SEC CATS. /METER**2)	COORD (SW CORNER) X Y (METERS) (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	X-DIM OF AREA (METERS)	Y-DIM OF AREA (METERS)	ORIENT. OF AREA (DEG.)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY	AIRCRAFT
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*** MODELOPTS: RegDEFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL SigA Data

*** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 1 YEARS FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): QXDKY000 ,

*** SENSITIVE DISCRETE RECEPTOR POINTS ***

** CONC OF PM10		IN MICROGRAMS/M**3		**	
X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
600966.80	4214758.00	0.01112	600860.90	4215042.40	0.01326
*** AERMOD - VERSION 23132 *** Collinsville Substation Construction DPM PM10 Controlled ***					
*** AERMET - VERSION 18081 *** ***					

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10:30:40
PAGE 7

*** MODELOPTS: RegDEFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL SigA Data

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

** CONC OF PM10		IN MICROGRAMS/M**3		**	
GROUP ID	AVERAGE CONC	RECEPTOR	(XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
ALL	1ST HIGHEST VALUE IS	0.01326 AT (	600860.90, 4215042.40,	0.00, 0.00, 1.50)	SR
	2ND HIGHEST VALUE IS	0.01112 AT (	600966.80, 4214758.00,	0.00, 0.00, 1.50)	SR
	3RD HIGHEST VALUE IS	0.00000 AT (	0.00, 0.00, 0.00,	0.00, 0.00, 0.00)	
	4TH HIGHEST VALUE IS	0.00000 AT (	0.00, 0.00, 0.00,	0.00, 0.00, 0.00)	
	5TH HIGHEST VALUE IS	0.00000 AT (	0.00, 0.00, 0.00,	0.00, 0.00, 0.00)	
	6TH HIGHEST VALUE IS	0.00000 AT (	0.00, 0.00, 0.00,	0.00, 0.00, 0.00)	
	7TH HIGHEST VALUE IS	0.00000 AT (	0.00, 0.00, 0.00,	0.00, 0.00, 0.00)	
	8TH HIGHEST VALUE IS	0.00000 AT (	0.00, 0.00, 0.00,	0.00, 0.00, 0.00)	
	9TH HIGHEST VALUE IS	0.00000 AT (	0.00, 0.00, 0.00,	0.00, 0.00, 0.00)	
	10TH HIGHEST VALUE IS	0.00000 AT (	0.00, 0.00, 0.00,	0.00, 0.00, 0.00)	

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

*** AERMOD - VERSION 23132 *** Collinsville Substation Construction DPM PM10 Controlled ***
*** AERMET - VERSION 18081 *** ***

06/19/25
10:30:40
PAGE 8

*** MODELOPTS: RegDEFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT RURAL SigA Data

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

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

A Total of 0 Fatal Error Message(s)
A Total of 3 Warning Message(s)
A Total of 221 Informational Message(s)

A Total of 8784 Hours Were Processed

A Total of 43 Calm Hours Identified

A Total of 178 Missing Hours Identified (2.03 Percent)

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

***** WARNING MESSAGES *****
MX W403 48 PFLCNV: Turbulence data is being used w/o ADJ_U* option SigA Data
MX W403 1 PFLCNV: Turbulence data is being used w/o ADJ_U* option SigA Data
MX W481 8785 MAIN: Data Remaining After End of Year. Number of Hours= 24

*** AERMOD Finishes Successfully ***
