



1 AERMOD PRIME - (DATED 23132 )  
AERMODPrMSPx VERSION  
(C) COPYRIGHT 1998-2022, Trinity Consultants

Run Began on 7/01/2024 at 11:36:06

\*\* BREEZE AERMOD  
\*\* Trinity Consultants  
\*\* VERSION 12.0

CO STARTING  
CO TITLEONE NRS Substation Construction PM2.5  
CO MODELOPT DFAULT CONC NODRYDPLT NOWETDPLT  
CO RUNORNOT RUN  
CO AVERTIME ANNUAL  
CO POLLUTID PM25  
CO FINISHED

SO STARTING  
SO ELEVUNIT METERS  
SO LOCATION EA0A8004 AREAPOLY 591639 4140062.9 0  
\*\* SRCDESCR NRS Substation Work  
SO SRCPARAM EA0A8004 3.29E-08 3 13 1  
SO AREAVERT EA0A8004 591639 4140062.9 591623.7 4140054.6 591602 4140096.7 591516.6 4140051.4  
SO AREAVERT EA0A8004 591565.7 4139958.3 591651.7 4140006.2 591648.6 4140012.5 591659.4 4140018.9  
SO AREAVERT EA0A8004 591657.5 4140024 591643.5 4140018.3 591633.3 4140038.7 591648.6 4140046.9  
SO AREAVERT EA0A8004 591639 4140062.9  
SO SRCGROUP ALL  
SO FINISHED

RE STARTING  
RE ELEVUNIT METERS  
RE DISCCART 591670.2 4140141.9 0 0  
\*\* SENSITIV  
\*\* RCPDESCR R1  
RE DISCCART 591714.2 4140072.4 0 0  
\*\* SENSITIV  
\*\* RCPDESCR R2  
RE DISCCART 591657.5 4139928.4 0 0  
\*\* SENSITIV  
\*\* RCPDESCR R3  
RE DISCCART 591603.9 4139899.7 0 0  
\*\* SENSITIV  
\*\* RCPDESCR R4  
RE FINISHED

ME STARTING  
ME SURFFILE "C:\Users\ryan\My Drive (rmtaylor76@gmail.com)\City of San Jose\23-32 Newark HVDC PEA\Models\Northern Recieving Station NRS\AERMOD\KSJC\_2017.SFC"  
\*\* SURFFILE "C:\Users\ryan\My Drive (rmtaylor76@gmail.com)\City of San Jose\23-32 Newark HVDC PEA\Models\Northern Recieving Station NRS\AERMOD\KSJC\_2017.SFC"  
ME PROFFILE "C:\Users\ryan\My Drive (rmtaylor76@gmail.com)\City of San Jose\23-32 Newark HVDC PEA\Models\Northern Recieving Station NRS\AERMOD\KSJC\_2017.PFL"  
\*\* PROFFILE "C:\Users\ryan\My Drive (rmtaylor76@gmail.com)\City of San Jose\23-32 Newark HVDC PEA\Models\Northern Recieving Station NRS\AERMOD\KSJC\_2017.PFL"  
ME SURFDATA 23293 2017  
ME UAIRDATA 23230 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  
\*\* \*\*\*\*\*

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

** PROJECTIONWKT
PROJCS["UTM_6326_Zone11",GEOGCS["WGS_84",DATUM["World_Geodetic_System_1984",SPHEROID["WGS_1984",6378137,298.25722356
3],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

```

\*\*\* 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      56      MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
ME W187      56      MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

```

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

```

^ *** AERMOD - VERSION 23132 ***   *** NRS Substation Construction PM2.5          ***
  07/01/24
*** AERMET - VERSION 18081 ***   ***                                     ***
11:36:06

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PAGE 1
*** MODELOPTs:   RegDFault  CONC  ELEV  NODRYDPLT  NOWETDPLT  RURAL  ADJ_U*

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\*\*\* MODEL SETUP OPTIONS SUMMARY \*\*\*

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** Model Options Selected:
* Model Uses Regulatory DEFAULT Options
* Model Is Setup For Calculation of Average CONCentration Values.
* NO GAS DEPOSITION Data Provided.

```





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

Surface file: C:\Users\ryan\My Drive (rmtaylor76@gmail.com)\City of San Jose\23-32 Newark HVDC Met Version: 18081

Profile file: C:\Users\ryan\My Drive (rmtaylor76@gmail.com)\City of San Jose\23-32 Newark HVDC  
Surface format: FREE

Profile format: FREE

Surface station no.: 23293                      Upper air station no.: 23230  
Name: UNKNOWN                                      Name: UNKNOWN  
Year: 2017    Year: 2017

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-0	LEN	Z0	BOWEN	ALBEDO	REF	WS	WD	HT	REF	TA
17	01	01	1	01	-22.4	0.219	-9.000	-9.000	-999.	246.	52.9	0.02	0.68	1.00	3.36	121.	7.9	277.5			
2.0																					
17	01	01	1	02	-12.5	0.138	-9.000	-9.000	-999.	125.	21.0	0.02	0.68	1.00	2.17	180.	7.9	278.1			
2.0																					
17	01	01	1	03	-16.7	0.164	-9.000	-9.000	-999.	160.	29.6	0.02	0.68	1.00	2.55	137.	7.9	278.8			
2.0																					
17	01	01	1	04	-17.5	0.172	-9.000	-9.000	-999.	172.	32.7	0.02	0.68	1.00	2.67	125.	7.9	279.2			
2.0																					
17	01	01	1	05	-21.8	0.215	-9.000	-9.000	-999.	239.	50.6	0.02	0.68	1.00	3.29	122.	7.9	279.2			
2.0																					
17	01	01	1	06	-15.2	0.153	-9.000	-9.000	-999.	145.	25.8	0.02	0.68	1.00	2.39	154.	7.9	279.9			
2.0																					
17	01	01	1	07	-18.9	0.187	-9.000	-9.000	-999.	194.	38.3	0.02	0.68	1.00	2.88	124.	7.9	279.9			
2.0																					
17	01	01	1	08	-17.7	0.175	-9.000	-9.000	-999.	176.	33.7	0.02	0.68	0.74	2.71	132.	7.9	279.9			
2.0																					
17	01	01	1	09	5.8	0.168	0.369	0.005	314.	166.	-74.7	0.02	0.68	0.39	2.32	134.	7.9	280.9			
2.0																					
17	01	01	1	10	35.9	0.138	0.923	0.018	792.	123.	-6.6	0.02	0.68	0.27	1.59	138.	7.9	282.0			
2.0																					
17	01	01	1	11	59.1	0.123	1.168	0.019	974.	104.	-2.9	0.02	0.68	0.23	1.28	129.	7.9	284.2			
2.0																					
17	01	01	1	12	72.0	0.252	1.293	0.020	1085.	304.	-20.1	0.02	0.68	0.21	3.34	280.	7.9	284.9			
2.0																					
17	01	01	1	13	87.9	0.389	1.384	0.019	1089.	582.	-60.3	0.05	0.68	0.21	4.65	263.	7.9	285.9			
2.0																					
17	01	01	1	14	65.5	0.353	1.256	0.019	1091.	504.	-60.5	0.05	0.68	0.22	4.22	270.	7.9	285.9			
2.0																					
17	01	01	1	15	46.1	0.403	1.118	0.018	1093.	613.	-128.0	0.05	0.68	0.25	4.97	244.	7.9	285.4			
2.0																					
17	01	01	1	16	18.2	0.370	0.820	0.018	1094.	542.	-252.7	0.02	0.68	0.33	5.44	281.	7.9	285.4			
2.0																					
17	01	01	1	17	-32.0	0.420	-9.000	-9.000	-999.	653.	209.2	0.02	0.68	0.57	6.43	279.	7.9	283.1			
2.0																					
17	01	01	1	18	-28.9	0.288	-9.000	-9.000	-999.	382.	91.1	0.05	0.68	1.00	3.85	243.	7.9	282.0			
2.0																					
17	01	01	1	19	-18.6	0.185	-9.000	-9.000	-999.	197.	37.6	0.05	0.68	1.00	2.52	246.	7.9	282.0			
2.0																					
17	01	01	1	20	-13.3	0.147	-9.000	-9.000	-999.	135.	23.7	0.05	0.68	1.00	2.03	225.	7.9	280.9			
2.0																					
17	01	01	1	21	-7.4	0.105	-9.000	-9.000	-999.	82.	14.3	0.02	0.68	1.00	1.69	116.	7.9	282.0			
2.0																					
17	01	01	1	22	-10.4	0.130	-9.000	-9.000	-999.	112.	19.0	0.05	0.68	1.00	1.76	94.	7.9	281.4			
2.0																					
17	01	01	1	23	-14.5	0.149	-9.000	-9.000	-999.	138.	24.5	0.02	0.68	1.00	2.33	133.	7.9	280.9			
2.0																					
17	01	01	1	24	-21.8	0.215	-9.000	-9.000	-999.	240.	51.0	0.02	0.68	1.00	3.30	114.	7.9	280.4			
2.0																					

First hour of profile data

YR MO DY HR HEIGHT F WDIR WSPD AMB\_TMP sigmaA sigmaW sigmaV  
17 01 01 01 7.9 1 121. 3.36 277.6 99.0 -99.00 -99.00

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

▲ \*\*\* AERMOD - VERSION 23132 \*\*\* \*\* NRS Substation Construction PM2.5 \*\*\*  
07/01/24  
\*\*\* AERMET - VERSION 18081 \*\*\* \*\* \*\*\*  
11:36:06

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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ\_U\*

\*\*\* THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 1 YEARS FOR SOURCE GROUP: ALL

\*\*\*

INCLUDING SOURCE(S): EA0A8004 ,

\*\*\* SENSITIVE DISCRETE RECEPTOR POINTS \*\*\*

\*\* CONC OF PM25 IN MICROGRAMS/M\*\*3 \*\*

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
591670.20	4140141.90	0.01205	591714.20	4140072.40	0.01455
591657.50	4139928.40	0.03529	591603.90	4139899.70	0.01079

▲ \*\*\* AERMOD - VERSION 23132 \*\*\* \*\* NRS Substation Construction PM2.5 \*\*\*  
07/01/24  
\*\*\* AERMET - VERSION 18081 \*\*\* \*\* \*\*\*  
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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ\_U\*

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

\*\* CONC OF PM25 IN MICROGRAMS/M\*\*3 \*\*

GROUP ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
ALL	1ST HIGHEST VALUE IS	0.03529 AT ( 591657.50, 4139928.40, 0.00, 0.00, 0.00)	SR	
	2ND HIGHEST VALUE IS	0.01455 AT ( 591714.20, 4140072.40, 0.00, 0.00, 0.00)	SR	
	3RD HIGHEST VALUE IS	0.01205 AT ( 591670.20, 4140141.90, 0.00, 0.00, 0.00)	SR	
	4TH HIGHEST VALUE IS	0.01079 AT ( 591603.90, 4139899.70, 0.00, 0.00, 0.00)	SR	
	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 \*\*\* \*\* NRS Substation Construction PM2.5 \*\*\*  
07/01/24  
\*\*\* AERMET - VERSION 18081 \*\*\* \*\* \*\*\*  
11:36:06

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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ\_U\*

\*\*\* 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 194 Informational Message(s)  
  
A Total of 8784 Hours Were Processed  
  
A Total of 52 Calm Hours Identified  
  
A Total of 142 Missing Hours Identified ( 1.62 Percent)

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

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*  
ME W186 56 MEOPEN: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50  
ME W187 56 MEOPEN: ADJ\_U\* Option for Stable Low Winds used in AERMET  
MX W481 8785 MAIN: Data Remaining After End of Year. Number of Hours= 24

\*\*\*\*\*  
\*\*\* AERMOD Finishes Successfully \*\*\*  
\*\*\*\*\*