



Appendix A Facility Emissions

First Sampling Period: January 25-26, 2022

Union Carbide Corporation

South Charleston

Union Carbide Corporation
South Charleston, WV
Plant ID 03900003

DEP Monitoring Period Start (Date/Time)	1/25/22 12:30 p.m.
DEP Monitoring Period End (Date/Time)	1/26/22 12:30 p.m.

Oxide Adducts Point Sources

Operating?		Point Source	Emissions for DEP Monitoring Period (lb)
Yes	No		
X		E704	0
X		E705	0
X		E706	0
X		E707	0
X		E708	0
x		T9120	0.0003229
x		T9121	0.0003229
x		T9128	0.0003229
x		T9129	0.0003229
	x	T9151	0
x		T9180	0.0003229
x		T9181	0.0003229
	x	T9182	0
x		T9186	0.0003229
x		T9187	0.0003229
	x	T9223	0
	x	T9228	0
x		T9502	0.0003229
x		T9504	0.0003229
	x	T9505	0
	x	T9507	0
x		T9509	0.0003229
x		T9510	0.0003229
x		T9511	0.0003229
x		T9512	0.0003229
x		T9553	0.0003229
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x		T9556	0.0003229



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	x	L001TT5	0
	x	L001TT6	0

Oxide Adducts Fugitive Sources

x		EO Header and Reactor 2	0.07656
x		Reactors 4 and 5	0.12169
x		Reactor 6	0.02462
x		Reactor 7	0.01079
x		Western Tip of Island	0.04514
x		Lower Island Bridge	0.02699

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TRITON- DOW/UCC - South Charleston WV - ALL Sources (Point and Fugitive)

TRITON- South Charleston WV - Point Sources

Operating?		Point Source	Emissions for Monitoring Period (lb)
Yes	No		
X		E10813	0.09
X		L001	0.003962
X		L002	0.003962
X		L003	0.003962
X		L004	0.003962
X		T8313	0.002211
X		T8314	0.002211
X		T8320	0.002211
X		T8322	0.002211
X		T8323	0.002211
X		T8331	0.002211
X		T8334	0.002211
X		T8343	0.002211
X		T8344	0.002211
X		T8360	0.002211
X		T8361	0.002211
X		T8363	0.002211
X		T8364	0.002211
X		T8373	0.002211
X		T8380	0.002211
X		T8381	0.002211
X		T8383	0.002211



TRITON

Fugitive Sources

x		Header Fugitives THF	0.006995
x		Reactor Fugitives TRF	0.018224
x		Fugitives Near Covestro	0.008525

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Chemical Mixing - South Charleston

Operating?		Point Source	Emissions for Monitoring Period (lb)
Yes	No		
x		Chemical Mixing	0.013115
		Facility Total	0.524244934

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First Sampling Period: January 25-26, 2022

Covestro LLC

South Charleston

Covestro
South Charleston, WV
Plant ID 0390102

Monitoring Period Start (Date/Time)	January 25th 12:30pm
Monitoring Period End (Date/Time)	January 26th 12:30pm

Operating w/EO?		Point Source	Emissions for Monitoring Period (lb/hr)	Total:
Yes	No			
	☒	1RX	0	0.11
	☒	2RX	0	
	☒	3RX	0	
2 of 3		789RX	0.0045	
		Fugitive Source		
Yes	☐	EO03 Fugitives - CEO03F	0.0041	0.099
Yes	☐	Phase IV Fugitives - CPIVF	0.007	0.16
Fugitives based on <u>5-year</u> average. 2016 - 2020			Facility Total	0.369



First Sampling Period: January 25-26, 2022

Union Carbide Corporation

Institute

Union Carbide Corporation - Institute, WV
Ethylene Oxide Distribution
Plant ID 3900005

DEP Monitoring Period Start (Date/Time)	1/25/2022 11:30 a.m.
DEP Monitoring Period End (Date/Time)	1/26/2022 11:30 a.m.

Operating?		Point Source	Emissions for DEP Monitoring Period (lb)
Yes	No		
x		EODISTFL	0.561718

		Fugitive Source	
x		Railcar Unloading	0.376721
x		Pumps/Diked Area	0.611612
x		Tanks Area	0.343251
x		Flare Area	0.090246
x		Area Near Rt. 25	0.022022
		Facility Total	2.005570



First Sampling Period: January 25-26, 2022
Specialty Products US, LLC
Institute

Specialty Products US, LLC (POLYOX)
Institute,
WV
Plant ID 03900682

Monitoring Period Start (Date/Time)	1/25/2022 11:00
Monitoring Period End (Date/Time)	1/26/2022 11:00

~~COVEX~~ Polyox - Institute Point Sources

Operating?		Point Source	Emissions for Monitoring Period (lb/hr)
Yes	No		
x		221A	0.0360
x		230M	0.0202
x		230L	0.0888
x		230K	0.0211
x		230O	0.0026
	x	230HH	0.0000

~~COVEX~~ Polyox - Institute Fugitive Sources

x		POLYVOL1	0.0082	(0 - 30 feet release height)
x		BL8389A	0.0005	(30 - 60 feet release height)
x		BL8389B	0.0017	(60 - 90 feet release height)

Grand total lb/hr 0.1791
Facility Total 4.2988



Second Sampling Period: February 15-16, 2022

Union Carbide Corporation

South Charleston

Union Carbide Corporation
South Charleston, WV
Plant ID 03900003

Monitoring Period Start (Date/Time)	2/15/22; 1:00 p.m.
Monitoring Period End (Date/Time)	2/16/22; 1:00 p.m.

Oxide Adducts Point Sources

Operating?		Point Source	Emissions for Monitoring Period (lb)
Yes	No		
X		E704	0
	X	E705	0
	X	E706	0
X		E707	0.65
X		E708	0.75
X		T9120	0.0003229
X		T9121	0.0003229
X		T9128	0.0003229
X		T9129	0.0003229
	X	T9151	0
X		T9180	0.0003229
X		T9181	0.0003229
X		T9182	0.0003229
X		T9186	0.0003229
X		T9187	0.0003229
X		T9223	0.0003229
X		T9228	0.0003229
X		T9502	0.0003229
X		T9504	0.0003229
X		T9505	0.0003229
X		T9507	0.0003229
X		T9509	0.0003229
X		T9510	0.0003229
X		T9511	0.0003229
X		T9512	0.0003229
X		T9553	0.0003229
X		T9554	0.0003229
X		T9555	0.0003229
X		T9556	0.0003229
X		T9562	0.0003229
X		T9563	0.0003229



X		T9565	0.0003229
X		T9568	0.0003229
X		T9569	0.0003229
X		T9612	0.0003229
X		T9614	0.0003229
X		T9615	0.0003229
	X	T9616	0
X		T9617	0.0003229
X		T9619	0.0003229
X		T9622	0.0003229
X		T9624	0.0003229
X		T9625	0.0003229
X		T9627	0.0003229
X		T9629	0.0003229
X		T9632	0.0003229
X		T9634	0.0003229
X		T9635	0.0003229
X		T9637	0.0003229
X		T9640	0.0003229
	X	T9643	0
X		T9645	0.0003229
X		T9646	0.0003229
X		T9649	0.0003229
X		T9734	0.0003229
X		T9736	0.0003229
X		T9738	0.0003229
X		T9749	0.0003229
X		T9798	0.0003229
X		T9812	0.0003229
X		T9814	0.0003229
X		T9815	0.0003229
X		T9822	0.0003229
X		T9824	0.0003229
X		T9825	0.0003229
X		L001TT1	0.0003229
X		L001TT2	0.0003229
	X	L001TT3	0
	X	L001TT4	0
	X	L001TT5	0
	X	L001TT6	0

Oxide Adducts Fugitive Sources



x		EO Header and Reactor 2	0.07656
x		Reactors 4 and 5	0.12169
x		Reactor 6	0.02462
x		Reactor 7	0.01079
x		Western Tip of Island	0.04514
x		Lower Island Bridge	0.02699

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TRITON- DOW/UCC - South Charleston WV - ALL Sources (Point and Fugitive)

TRITON- South Charleston WV - Point Sources

Operating?		Point Source	Emissions for Monitoring Period (lb)
Yes	No		
X		E10813	0.16
x		L001	0.003962
x		L002	0.003962
x		L003	0.003962
x		L004	0.003962
x		T8313	0.002211
x		T8314	0.002211
x		T8320	0.002211
x		T8322	0.002211
x		T8323	0.002211
x		T8331	0.002211
x		T8334	0.002211
x		T8343	0.002211
x		T8344	0.002211
x		T8360	0.002211
x		T8361	0.002211
x		T8363	0.002211
x		T8364	0.002211
x		T8373	0.002211
	x	T8380	0
x		T8381	0.002211
x		T8383	0.002211
x		T8390	0.002211
	x	T8391	0
x		T8392	0.002211
	x	T8393	0
x		T8420	0.002211



TRITON

Fugitive Sources

x		Header Fugitives THF	0.006995
x		Reactor Fugitives TRF	0.018224
x		Fugitives Near Covestro	0.008525

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Chemical Mixing - South Charleston

Operating?		Point Source	Emissions for Monitoring Period (lb)
Yes	No		
x		Chemical Mixing	0.013115
		Facility Total	1.989550452



Second Sampling Period: February 15-16, 2022

Covestro LLC

South Charleston

Covestro
South Charleston,
WV
Plant ID 0390102

Monitoring Period Start (Date/Time)	February 15th, 1:00pm
Monitoring Period End (Date/Time)	February 16th, 1:00pm

Operating w/EO?		Point Source	Emissions for Monitoring Period	
Yes	No		(lb/hr)	Total/Day
	x	1RX		
	x	2RX		
	x	3RX		
x		789RX	0.007	0.17
Fugitive Source				
Yes		EO03 Fugitives - CEO03F	0.0041	0.099
Yes		Phase IV Fugitives - CPIVF	0.007	0.16
Fugitives based on 5-year average. 2016 - 2020			Facility Total	0.429



Second Sampling Period: February 15-16, 2022

Union Carbide Corporation

Institute

Union Carbide Corporation - Institute, WV
Ethylene Oxide Distribution
Plant ID 3900005

Monitoring Period Start (Date/Time)	2/15/22; 11:00 a.m.
Monitoring Period End (Date/Time)	2/16/22; 11:00 a.m.

Operating?	Point Source	Emissions for Monitoring Period (lb)
Yes No		
x	EODISTFL	0.892490

Fugitive Source		
x	Railcar Unloading	0.376721
x	Pumps/Diked Area	0.611612
x	Tanks Area	0.343251
x	Flare Area	0.090246
x	Area Near Rt. 25	0.022022
	Facility Total	2.336342



Second Sampling Period: February 15-16, 2022
Specialty Products US, LLC
Institute

Specialty Products US LLC (POLYOX)
Institute,
WV
Plant ID 03900682

Monitoring Period Start (Date/Time)	2/15/2022 11:00
Monitoring Period End (Date/Time)	2/16/2022 11:00

~~Polyox~~ - Institute Point Sources

Operating?		Point Source	Emissions for Monitoring Period (lb/hr)
Yes	No		
x		221A	0.0360
x		230M	0.0210
x		230L	0.0987
x		230K	0.0195
x		230O	0.0028
	x	230HH	0.0000

~~Polyox~~ - Institute Fugitive Sources

x		POLYVOL1	0.0069	(0 - 30 feet release height)
x		BL8389A	0.0005	(30 - 60 feet release height)
x		BL8389B	0.0017	(60 - 90 feet release height)
Grand total lb/hr			0.1870	
Facility Total			4.4887	



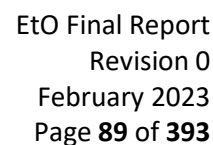
Third Sampling Period: March 23-24, 2022
Union Carbide Corporation
South Charleston

Union Carbide Corporation
South Charleston, WV
Plant ID 03900003

Monitoring Period Start (Date/Time)	3/23/22; 12:00 p.m.
Monitoring Period End (Date/Time)	3/24/22; 12:00 p.m.

Oxide Adducts Point Sources

Operating?		Point Source	Emissions for Monitoring Period (lb)
Yes	No		
X		E704	0
X		E705	1.22
X		E706	0
	X	E707	0
X		E708	0.64
X		T9120	0.0003229
X		T9121	0.0003229
X		T9128	0.0003229
	X	T9129	0
	X	T9151	0
X		T9180	0.0003229
X		T9181	0.0003229
X		T9182	0.0003229
X		T9186	0.0003229
X		T9187	0.0003229
X		T9223	0.0003229
X		T9228	0.0003229
X		T9502	0.0003229
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X		T9510	0.0003229
X		T9511	0.0003229
X		T9512	0.0003229
X		T9553	0.0003229
X		T9554	0.0003229
X		T9555	0.0003229
X		T9556	0.0003229
X		T9562	0.0003229
X		T9563	0.0003229



Oxide Adducts Fugitive Sources



x	EO Header and Reactor 2	0.07656
x	Reactors 4 and 5	0.12169
x	Reactor 6	0.02462
x	Reactor 7	0.01079
x	Western Tip of Island	0.04514
x	Lower Island Bridge	0.02699

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TRITON- DOW/UCC - South Charleston_WV - ALL Sources (Point and Fugitive)

TRITON- South Charleston_WV - Point Sources

Operating?		Point Source	Emissions for Monitoring Period (lb)
Yes	No		
X		E10813	0.12
x		L001	0.003962
x		L002	0.003962
x		L003	0.003962
x		L004	0.003962
x		T8313	0.002211
x		T8314	0.002211
x		T8320	0.002211
	x	T8322	0
x		T8323	0.002211
	x	T8331	0
x		T8334	0.002211
x		T8343	0.002211
x		T8344	0.002211
x		T8360	0.002211
x		T8361	0.002211
x		T8363	0.002211
	x	T8364	0
x		T8373	0.002211
x		T8380	0.002211
x		T8381	0.002211
x		T8383	0.002211
	x	T8390	0
	x	T8391	0
	x	T8392	0
x		T8393	0.002211
x		T8420	0.002211



TRITON

Fugitive Sources

x		Header Fugitives THF	0.006995
x		Reactor Fugitives TRF	0.018224
x		Fugitives Near Covestro	0.008525

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Chemical Mixing - South Charleston

Operating?		Point Source	Emissions for Monitoring Period (lb)
Yes	No		
x		Chemical Mixing	0.013115
		Facility Total	2.403564362

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Third Sampling Period: March 23-24, 2022
Covestro LLC
South Charleston

Covestro
South Charleston, WV
Plant ID 0390102

Monitoring Period Start (Date/Time)	March 23, 12:00pm
Monitoring Period End (Date/Time)	March 24, 12:00pm

Operating w/EO?		Point Source	Emissions for Monitoring Period		Total/Day
Yes	No		(lb/hr)		
x		1RX	0.000416	0.01	
	x	2RX			
	x	3RX			
x		789RX	0.00458	0.11	
		Fugitive Source			
Yes		EO03 Fugitives - CEO03F	0.0041	0.099	
Yes		Phase IV Fugitives - CPIVF	0.007	0.16	
Fugitives based on 5-year average. 2016 - 2020			Facility Total	0.379	



Third Sampling Period: March 23-24, 2022
Union Carbide Corporation
Institute

Union Carbide Corporation - Institute, WV
Ethylene Oxide Distribution
Plant ID 3900005

DEP Monitoring Period Start (Date/Time)	3/23/2022 10:30 a.m.
DEP Monitoring Period End (Date/Time)	3/24/2022 10:30 a.m.

Operating?		Point Source	Emissions for DEP Monitoring Period (lb)
Yes	No		
x		EODISTFL	0.987750
Fugitive Source			
x		Railcar Unloading	0.376721
x		Pumps/Diked Area	0.611612
x		Tanks Area	0.343251
x		Flare Area	0.090246
x		Area Near Rt. 25	0.022022
Facility Total			2.431602



Third Sampling Period: March 23-24, 2022
Specialty Products US, LLC
Institute

Specialty Products US LLC (POLYOX)
Institute,
WV
Plant ID 03900682

Monitoring Period Start (Date/Time)	3/23/2022 10:30
Monitoring Period End (Date/Time)	3/24/2022 10:30

~~Polyox~~ - Institute Point Sources

Operating?		Point Source	Emissions for Monitoring Period (lb/hr)
Yes	No		
x		221A	0.0360
x		230M	0.0218
x		230L	0.1023
x		230K	0.0212
x		230O	0.0219
	x	230HH	0.0000

~~Polyox~~ - Institute Fugitive Sources

x		POLYVOL1	0.0055	(0 - 30 feet release height)
x		BL8389A	0.0005	(30 - 60 feet release height)
x		BL8389B	0.0017	(60 - 90 feet release height)

Grand total lb/hr	0.2109
Facility Total	5.0621



Fourth Sampling Period: April 26-27, 2022

Union Carbide Corporation

South Charleston

Union Carbide Corporation
South Charleston, WV
Plant ID 03900003

Monitoring Period Start (Date/Time)	4/26/22; 2:00 p.m.
Monitoring Period End (Date/Time)	4/27/22; 2:00 p.m.

Oxide Adducts Point Sources

Operating?		Point Source	Emissions for Monitoring Period (lb)
Yes	No		
x		E704	0
x		E705	0
x		E706	0
x		E707	0
x		E708	0
x		T9120	0.0003229
x		T9121	0.0003229
	x	T9128	0
	x	T9129	0
	x	T9151	0
	x	T9180	0
	x	T9181	0
	x	T9182	0
x		T9186	0.0003229
x		T9187	0.0003229
	x	T9223	0
	x	T9228	0
x		T9502	0.0003229
	x	T9504	0
	x	T9505	0
	x	T9507	0
x		T9509	0.0003229
x		T9510	0.0003229
x		T9511	0.0003229
x		T9512	0.0003229
x		T9553	0.0003229
x		T9554	0.0003229
x		T9555	0.0003229
x		T9556	0.0003229
x		T9562	0.0003229
x		T9563	0.0003229



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Oxide Adducts Fugitive Sources



x		EO Header and Reactor 2	0.07656
x		Reactors 4 and 5	0.12169
x		Reactor 6	0.02462
x		Reactor 7	0.01079
x		Western Tip of Island	0.04514
x		Lower Island Bridge	0.02699

* **

TRITON- DOW/UCC - South Charleston WV - ALL Sources (Point and Fugitive)

TRITON- South Charleston WV - Point Sources

Operating?		Point Source	Emissions for Monitoring Period (lb)
Yes	No		
x		E10813	0.33
x		L001	0.003962
x		L002	0.003962
x		L003	0.003962
x		L004	0.003962
x		T8313	0.002211
x		T8314	0.002211
	x	T8320	0
	x	T8322	0
x		T8323	0.002211
x		T8331	0.002211
x		T8334	0.002211
x		T8343	0.002211
x		T8344	0.002211
x		T8360	0.002211
x		T8361	0.002211
x		T8363	0.002211
x		T8364	0.002211
x		T8373	0.002211
	x	T8380	0
x		T8381	0.002211
x		T8383	0.002211
x		T8390	0.002211
x		T8391	0.002211
x		T8392	0.002211
x		T8393	0.002211
x		T8420	0.002211



TRITON

Fugitive Sources

x	
x	
x	

Header Fugitives THF
Reactor Fugitives TRF
Fugitives Near Covestro

0.006995
0.018224
0.008525

* **

Chemical Mixing - South Charleston

Operating?	
Yes	No
x	

Point Source

Emissions for Monitoring Period
(lb)

Chemical Mixing
Facility Total

0.013115
0.755998534



Fourth Sampling Period: April 26-27, 2022

Covestro LLC

South Charleston

Covestro
South Charleston, WV
Plant ID 0390102

Monitoring Period Start (Date/Time)	April 26, 2:00pm
Monitoring Period End (Date/Time)	April 27, 2:00pm

Operating w/EO?		Point Source	Emissions for Monitoring Period		Total/Day
Yes	No		(lb/hr)		
	X	1RX			
	X	2RX			
	X	3RX			
X		789RX	0.0046		0.11
		Fugitive Source			
X		EO03 Fugitives - CEO03F	0.0041		0.099
X		Phase IV Fugitives - CPIVF	0.007		0.16
Fugitives based on 5-year average. 2016 - 2020		Facility Total			0.369



Fourth Sampling Period: April 25-26, 2022
Union Carbide Corporation
Institute

Union Carbide Corporation - Institute, WV
Ethylene Oxide Distribution
Plant ID 3900005

DEP Monitoring Period Start (Date/Time)	4/25/2022 11:00 a.m.
DEP Monitoring Period End (Date/Time)	4/26/2022 11:00 a.m.

Operating?		Point Source	Emissions for DEP Monitoring Period (lb)
Yes	No		
x		EODISTFL	0.932370

		Fugitive Source	
x			
x		Railcar Unloading	0.376721
x		Pumps/Diked Area	0.611612
x		Tanks Area	0.343251
x		Flare Area	0.090246
x		Area Near Rt. 25	0.022022
		Facility Total	2.376222



Fourth Sampling Period: April 25-26, 2022
Specialty Products US, LLC
Institute

Specialty Products US, LLC (POLYOX)
Institute,
WV
Plant ID 03900682

Monitoring Period Start (Date/Time)	4/25/2022 11:00
Monitoring Period End (Date/Time)	4/26/2022 11:00

~~Polyox~~ - Institute Point Sources

Operating?		Point Source	Emissions for Monitoring Period (lb/hr)
Yes	No		
	x	221A	0.0000
	x	230M	0.0000
	x	230L	0.0000
	x	230K	0.0000
	x	230O	0.0000
	x	230HH	0.0000

~~Polyox~~ - Institute Fugitive Sources

x		POLYVOL1	0.0016	(0 - 30 feet release height)
x		BL8389A	0.0005	(30 - 60 feet release height)
x		BL8389B	0.0017	(60 - 90 feet release height)

Grand total lb/hr 0.0039
Facility Total 0.0929



Appendix B Chain of Custodies

First Sampling Period: January 25-26, 2022

ERG		ERG LIMS ID# 2012807-01	
601 Keystone Park Drive, Suite 700, Morrisville, NC 27560			
AIR TOXICS SAMPLE CHAIN OF CUSTODY			
Lab Pre-Sampling	Site Code: <u>Guthrie WV Background Site</u>	Canister Number: <u>33531</u>	
	City/State: _____	Lab Initial Can. Press. ("Hg): <u>29.8"</u>	
	AQS Code: _____	Cleaning Batch #: <u>42-1278</u>	
	Collection Date: _____	Date Can. Cleaned: <u>12/29/21</u>	
	Options:		
	SNMOC (Y/N): _____	Duplicate Event (Y/N): _____	
	TOXICS (Y/N): _____	Duplicate Can #: _____	
	METHANE (Y/N): _____		
	Relinquished by: <u>RL</u>	Date: <u>1-6-22</u>	
Field Setup	Received by: <u>Tyler R. Farrell</u>	Date: <u>1-10-22</u>	
	Operator: <u>Joe Thron</u>	MFC Setting: <u>NA</u>	
	System #: <u>33531 canister / PA-58 on 1249J reg</u>	Elapsed Timer Reset (Y/N): <u>NA</u>	
	Setup Date: <u>1-25-22 11:46 EST</u>	Canister Valve Opened (Y/N): <u>Yes</u>	
	Field Initial Can. Press.: <u>29</u>	psig psia ("Hg) (Circle one)	
Field Recovery	Recovery Date: <u>1-26-22 11:46 EST</u>	Sample Duration (3 or 24 hr): <u>24 hr</u>	
	Operator: <u>Joe Thron</u>	Elapsed Time: <u>1440 min</u>	
	Field Final Can. Press.: <u>1.5</u>	psig psia ("Hg) (Circle one)	
	Status: <u>VALID</u> VOID (Circle one)	Canister Valve Closed (Y/N): <u>Y</u>	
	Relinquished by: <u>Tyler R. Farrell</u>	Date: <u>1-27-2022</u>	
Lab Recovery	Received by: <u>MW</u>	Date: <u>1/28/22</u>	
	Lab Final Can. Press.: <u>2.50</u>	psig ("Hg) (Circle one) Converted to psia: _____	
	Status: <u>VALID</u> VOID (Circle one)	Gauge: 1 2 <u>3</u> (Circle one)	
	If void, why: _____		

Samples stored in Air Tox Lab (Room 130)

Comments: 1-25-22 JT leak test initial reading 29 inHg @ 11:40 29 inHg @ 11:45
temp -0.5°C Guthrie background site
1-26-22 JT temp at pickup @ -2.5°C EXTECH A21033000 used
for temp at setup + pickup

White: Sample Traveler

Canary: Lab Copy

Pink: Field Copy



ERG		ERG LIMS ID # 2012807-02	
001 Keystone Park Drive, Suite 700, Morrisville, NC 27560			
AIR TOXICS SAMPLE CHAIN OF CUSTODY			
Lab Pre-Sampling	Site Code: #0 South Charleston, WV	Canister Number: 19648	
	City/State:	Lab Initial Can. Press. ("Hg): 29.8"	
	AQS Code:	Cleaning Batch #: H1-1277	
	Collection Date:	Date Can. Cleaned: 12/28/21	
	Options:		
	SNMOC (Y/N):	Duplicate Event (Y/N):	
	TOXICS (Y/N):	Duplicate Can #:	
	METHANE (Y/N):		
	Relinquished by: KR	Date: 1-6-22	
Field Setup	Received by: Tyler R. Fewell	Date: 1-10-22	
	Operator: Tyler Fewell	MFC Setting: N/A	
	System #: #0154 PR-75	Elapsed Timer Reset (Y/N): N/A	
	Setup Date: 1-25-2022 at 12:15	Canister Valve Opened (Y/N): Y	
	Field Initial Can. Press.: 30 psig psia (Hg) (Circle one)		
Field Recovery	Recovery Date: 1-26-2022 at 12:15	Sample Duration (3 or 24 hr): 24	
	Operator: Tyler Fewell	Elapsed Time: 24:00	
	Field Final Can. Press.: 0 psig psia (Hg) (Circle one)		
	Status: VALID VOID (Circle one)	Canister Valve Closed (Y/N): Y	
	Relinquished by: Tyler R. Fewell	Date: 1-27-2022	
Lab Recovery	Received by: MW	Date: 1/28/22	
	Lab Final Can. Press.: 0.25 psig "Hg (Circle one)	Converted to psia:	
	Status: VALID VOID (Circle one)	Gauge: 1 2 3 (Circle one)	
	If void, why:		

4-0021

Samples stored in Air Tox Lab (Room 130)

Comments: DHHR #0, Regulator # SN-15594
Leak Check passed.

White: Sample Traveler

Canary: Lab Copy

Pink: Field Copy



ERG		ERG LIMS ID # 2012807-03	
601 Keystone Park Drive, Suite 700, Monksville, NC 27560			
AIR TOXICS SAMPLE CHAIN OF CUSTODY			
Lab Pre-Sampling	Site Code: #3 North Charleston, WV	Canister Number: 18875	
	City/State:	Lab Initial Can. Press. ("Hg): 29.7"	
	AQS Code:	Cleaning Batch #: H2-1278	
	Collection Date:	Date Can. Cleaned: 12/29/21	
	Options:	Duplicate Event (Y/N):	
	SNMOC (Y/N):	Duplicate Can #:	
	TOXICS (Y/N):		
	METHANE (Y/N):		
	Relinquished by: RL	Date: 1-6-22	
Field Setup	Received by: Tyler R. Fewell	Date: 1-10-22	
	Operator: Tyler Fewell	MFC Setting: N/A	
	System #: #3-PR-79	Elapsed Timer Reset (Y/N): N/A	
	Setup Date: 1-25-2022 at 1300	Canister Valve Opened (Y/N): Y	
	Field Initial Can. Press.: 29.5	psig psia (Hg) (Circle one)	
Field Recovery	Recovery Date: 1-26-2022 at 1300	Sample Duration (3 or 24 hr): 24	
	Operator: Tyler Fewell	Elapsed Time: 24:00	
	Field Final Can. Press.: 0	psig psia (Hg) (Circle one)	
	Status: VALID VOID (Circle one)	Canister Valve Closed (Y/N): Y	
	Relinquished by: Tyler R. Fewell	Date: 1-27-2022	
Lab Recovery	Received by: MW	Date: 1/28/22	
	Lab Final Can. Press.: 0.6	psig "Hg (Circle one)	Converted to psia:
	Status: VALID VOID (Circle one)	Gauge: 1 2 3 (Circle one)	
	If void, why:		

Samples stored in Air Tox Lab (Room 130)

Comments: North Charleston #3, Regulator S/N-15585
Leak Check Passed.



ERG		ERG LIMS ID # 2012807-04	
601 Keystone Park Drive, Suite 700, Morrisville, NC 27560			
AIR TOXICS SAMPLE CHAIN OF CUSTODY			
Lab Pre-Sampling	Site Code: #4 North Charleston, WV	Canister Number: 19280	
	City/State:	Lab Initial Can. Press. ("Hg): 29.7"	
	AQS Code:	Cleaning Batch #: H2-1277	
	Collection Date:	Date Can. Cleaned: 12/28/21	
	Options:		
	SNMOC (Y/N):	Duplicate Event (Y/N):	
	TOXICS (Y/N):	Duplicate Can #:	
	METHANE (Y/N):		
	Relinquished by: [Signature]	Date: 1-6-22	
Field Setup	Received by: Tyler R. Fewell	Date: 1-10-22	
	Operator: Tyler Fewell	MFC Setting: N/A	
	System #: #4-15622 PR-76	Elapsed Timer Reset (Y/N): N/A	
	Setup Date: 1-25-2022 at 1244	Canister Valve Opened (Y/N): Y	
	Field Initial Can. Press.: 29.2	psig psia (Hg) (Circle one)	
Field Recovery	Recovery Date: 1-26-2022 at 1244	Sample Duration (3 or 24 hr): 24	
	Operator: Tyler Fewell	Elapsed Time: 24:00	
	Field Final Can. Press.: 0	psig psia (Hg) (Circle one)	
	Status: VALID VOID (Circle one)	Canister Valve Closed (Y/N): Y	
	Relinquished by: Tyler R. Fewell	Date: 1-27-2022	
Lab Recovery	Received by: MW	Date: 1/28/22	
	Lab Final Can. Press.: 0.6	psig "Hg (Circle one)	Converted to psia:
	Status: VALID VOID (Circle one)	Gauge: 1 2 3 (Circle one)	
	If void, why:		

Samples stored in Air Tox Lab (Room 130)

Comments: North Charleston #4, Regulator S/N - 15584
Leak check passed

White: Sample Traveler

Canary: Lab Copy

Pink: Field Copy



Entech Flow Controller Calibration Report for 15597

Report Date:	Wednesday, October 13, 2021	Operator Name:	PB	Location:	Clean Room#1
Start Time:	1:42:34 PM	Software Version:	2.3.0.51	Atmosphere:	14.22 psia
Stop Time:	1:54:56 PM	Firmware Version:	1.0.0.6	FP Serial No:	0207
Duration:	12 min 22 sec	Comm. Interval:	400 ms	FP App Id:	1

Method Summary for #4_6L_24Hr.FP.Method

Flow Rate:	3.6 cc/min	Recommended:	#4	Location:	None
Canister Size:	6000 cc	Restrictor Used:	#4	Atmosphere:	14.7 psia
Duration:	1 Day	Ballast Used:	No Ballast	Elevation:	0 ft
Target:	-4 inHg(g)	With Micro-QT™:	No	Temperature:	25 °C
Controller:	CS1200E (New)	With Extra Fitting:	Yes	Duplicate Fill:	No

Leak Check Passed

Start Time:	1:42:34 PM	Duration:	2 min 42 sec	Wait Time:	1 min 22 sec
Stop Time:	1:45:17 PM	Pass/Fail Rate:	0.05 cc/min	Leak Rate:	0 cc/min

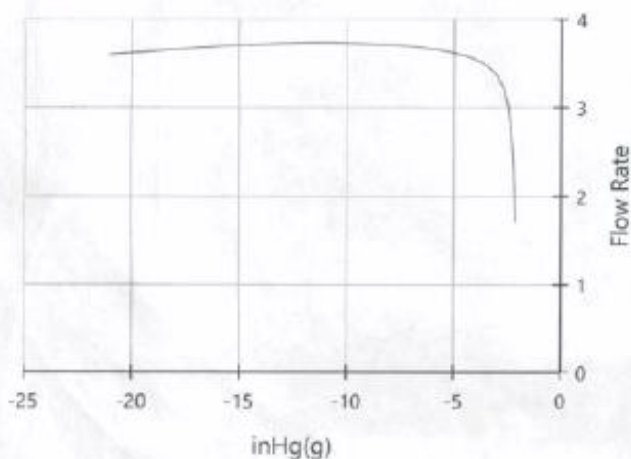
Calibration Summary

Start Time:	1:45:17 PM	Duration:	8 min 17 sec	Initial Flow:	8.8 cc/min
Stop Time:	1:53:34 PM	Steps Moved:	11334	Final Flow:	3.6 cc/min

Verification Summary

Start Time:	1:53:46 PM	Duration:	1 min 10 sec	Drop Off:	-3.41 inHg(g)
Stop Time:	1:54:56 PM	Consistent Flow:	Yes	Avg. Flow:	3.7 cc/min
Result Detail:	Optimal Range				

Flow Profile



Notes:

None



ERG		ERG LIMS ID # 2012807-05	
501 Keystone Park C Wy, Suite 700, Morrisville, NC 27560			
AIR TOXICS SAMPLE CHAIN OF CUSTODY			
Lab Pre-Sampling	Site Code: #10 Institute, WV	Canister Number: 40451	
	City/State:	Lab Initial Can. Press. ("Hg): 29.7"	
	AQS Code:	Cleaning Batch #: H2-1278	
	Collection Date:	Date Can. Cleaned: 12/29/21	
	Options:		
	SNMOC (Y/N):	Duplicate Event (Y/N):	
	TOXICS (Y/N):	Duplicate Can #:	
	METHANE (Y/N):		
	Relinquished by: M	Date: 1-6-22	
Field Setup	Received by: J. R. Fewell	Date: 1-10-22	
	Operator: Tyler Fewell	MFC Setting: N/A	
	System #: #10 Institute PR-85 S/N 15589	Elapsed Timer Reset (Y/N): N/A	
	Setup Date: 1-25-2022 at 1115	Canister Valve Opened (Y/N): Y	
	Field Initial Can. Press.: 29	psig psia ("Hg (Circle one)	
Field Recovery	Recovery Date: 1-26-2022 at 1115	Sample Duration (3 or 24 hr): 24	
	Operator: Tyler Fewell	Elapsed Time: 24:00	
	Field Final Can. Press.: 0	psig psia ("Hg (Circle one)	
	Status: VALID VOID (Circle one)	Canister Valve Closed (Y/N): Y	
	Relinquished by: J. R. Fewell	Date: 1-26-2022	
Lab Recovery	Received by: MW	Date: 1/28/22	
	Lab Final Can. Press.: 0.45	psig "Hg (Circle one) Converted to psia:	
	Status: VALID VOID (Circle one)	Gauge: 1 2 3 (Circle one)	
	If void, why:		

Samples stored in Air Tox Lab (Room 130)

Comments: Institute #10 Regulator S/N-15589
Leak check passed.

White: Sample Traveler

Canary: Lab Copy

Pink: Field Copy



ERG		ERG LIMS ID # 2012807-06	
201 Keystone Park Drive, Suite 700, Morrisville, NC 27560			
AIR TOXICS SAMPLE CHAIN OF CUSTODY			
Lab Pre-Sampling	Site Code: #13 Institute, WV	Canister Number: 19656	
	City/State: _____	Lab Initial Can. Press. (Hg): 29.8"	
	AQS Code: _____	Cleaning Batch #: H2-1278	
	Collection Date: _____	Date Can. Cleaned: 12/29/21	
	Options:		
	SNMOC (Y/N): _____	Duplicate Event (Y/N): _____	
	TOXICS (Y/N): _____	Duplicate Can #: _____	
	METHANE (Y/N): _____		
	Relinquished by: ML	Date: 1-6-22	
Field Setup	Received by: Tyler R. Fewell	Date: 1-10-22	
	Operator: Tyler Fewell	MFC Setting: N/A	
	System #: #13-PR-87	Elapsed Timer Reset (Y/N): N/A	
	Setup Date: 1-25-2022 at 1055	Canister Valve Opened (Y/N): YES	
	Field Initial Can. Press.: 29	psig psia (Hg) (Circle one)	
Field Recovery	Recovery Date: 1-26-2022 at 1055	Sample Duration (3 or 24 hr): 24	
	Operator: Tyler Fewell	Elapsed Time: 24:00	
	Field Final Can. Press.: 0	psig psia (Hg) (Circle one)	
	Status: VALID VOID (Circle one)	Canister Valve Closed (Y/N): Y	
	Relinquished by: Tyler R. Fewell	Date: 1-27-2022	
Lab Recovery	Received by: MW	Date: 1/28/22	
	Lab Final Can. Press.: 0.5	psig Hg (Circle one)	Converted to psia: _____
	Status: VALID VOID (Circle one)	Gauge: 1 2 3 (Circle one)	
	If void, why: _____		

4-2001

Comments: # 13, Regulator S/N - 15586, Leak check passed

White: Sample Traveler

Canary: Lab Copy

Pink: Field Copy



ERG		ERG LIMS ID # 2012807-07	
201 Keystone Park Drive, Suite 700, Morrisville, NC 27560			
AIR TOXICS SAMPLE CHAIN OF CUSTODY			
Lab Pre-Sampling	Site Code: #14 Institute, WV	Canister Number: 40451	
	City/State: _____	Lab Initial Can. Press. ("Hg): 29.8"	
	AQS Code: _____	Cleaning Batch #: H2-1278	
	Collection Date: _____	Date Can. Cleaned: 12/29/21	
	Options:		
	SNMOC (Y/N): _____	Duplicate Event (Y/N): _____	
	TOXICS (Y/N): _____	Duplicate Can #: _____	
	METHANE (Y/N): _____		
	Relinquished by: RL	Date: 1-6-22	
Field Setup	Received by: Tyler R. Fewell	Date: 1-10-22	
	Operator: Tyler Fewell	MFC Setting: N/A	
	System #: TF 40451 IF #14-TS-22 PR-86	Elapsed Timer Reset (Y/N): N/A	
	Setup Date: 1-25-2022 at 1034-	Canister Valve Opened (Y/N): _____	
	Field Initial Can. Press.: 30	psig psia "Hg" (Circle one)	
Field Recovery	Recovery Date: 1-26-2022 at 1034	Sample Duration (3 or 24 hr): 24	
	Operator: Tyler Fewell	Elapsed Time: 24:00	
	Field Final Can. Press.: 2 0.5	psig psia "Hg" (Circle one)	
	Status: <u>VALID</u> VOID (Circle one)	Canister Valve Closed (Y/N): Y	
	Relinquished by: Tyler R. Fewell	Date: 1-27-2022	
Lab Recovery	Received by: MW	Date: 1/28/22	
	Lab Final Can. Press.: 0.5	psig "Hg" (Circle one)	Converted to psia: _____
	Status: <u>VALID</u> VOID (Circle one)	Gauge: 1 2 <u>3</u> (Circle one)	
	If void, why: _____		

Samples stored in Air Tox Lab (Room 130)

Comments: Institute #14, Regulator b/n - 15597
Leak Check passed.

White: Sample Traveler

Canary: Lab Copy

Pink: Field Copy



ERG		ERG LIMS ID # 2012807-08	
P01 Keystone Park Drive, Suite 700, Monroeville, NC 27550			
AIR TOXICS SAMPLE CHAIN OF CUSTODY			
Lab Pre-Sampling	Site Code: #15 Institute, WV	Canister Number: 39938	
	City/State: _____	Lab Initial Can. Press. ("Hg): 29.7"	
	AQS Code: _____	Cleaning Batch #: H2-1277	
	Collection Date: _____	Date Can. Cleaned: 12/28/21	
	Options:		
	SNMOC (Y/N): _____	Duplicate Event (Y/N): _____	
	TOXICS (Y/N): _____	Duplicate Can #: _____	
	METHANE (Y/N): _____		
	Relinquished by: KR	Date: 1-6-22	
Field Setup	Received by: Tyler R. Fewell	Date: 1-10-22	
	Operator: Tyler Fewell	MFC Setting: N/A	
	System #: #15 PR-91 S/N 15590	Elapsed Timer Reset (Y/N): N/A	
	Setup Date: 1-25-2022 at 1140	Canister Valve Opened (Y/N): Y	
	Field Initial Can. Press.: 29.5	psig psia (Hg) (Circle one)	
Field Recovery	Recovery Date: 1-26-2022 at 1140	Sample Duration (3 or 24 hr): 24	
	Operator: Tyler Fewell	Elapsed Time: 24:00	
	Field Final Can. Press.: 0	psig psia (Hg) (Circle one)	
	Status: VALID VOID (Circle one)	Canister Valve Closed (Y/N): Y	
	Relinquished by: Tyler R. Fewell	Date: 1-27-2022	
Lab Recovery	Received by: MW	Date: 1/28/22	
	Lab Final Can. Press.: 0.85	psig "Hg (Circle one) Converted to psia: _____	
	Status: VALID VOID (Circle one)	Gauge: 1 2 3 (Circle one)	
	If void, why: _____		
Samples stored in Air Tox Lab (Room 130)			

Comments: Institute #15 Regulator S/N - 15590
Leak check passed.

White: Sample Traveler

Canary: Lab Copy

Pink: Field Copy



Second Sampling Period: February 15-16, 2022

ERG Environmental Research Group, Inc. 801 Keystone Park Drive, Suite 700, Morrisville, NC 27560	
ERG Lab ID # 2021802-01	
PASSIVE SAMPLE CHAIN OF CUSTODY	
Lab Pre-Sampling	Site: <u>Guthrie Background Site</u> Canister Number: <u>41635</u>
	City/State: _____ Lab Initial Can. Press. ("Hg): <u>30"</u>
	Options: _____ Cleaning Batch #: <u>H2-1296</u>
	SNMOC (Y/N): _____ Date Can. Cleaned: <u>1/27/22</u>
Field Setup	TOXICS (Y/N): _____ Duplicate Event (Y/N): _____
	METHANE (Y/N): _____ Duplicate Can #: _____
	Relinquished by: <u>RMB</u> Date: <u>1/31/22</u>
	Received by: <u>Jason Thomas</u> Date: <u>2-1-2022</u>
Field Recovery	Operator: <u>Jason Thomas</u> Start Date: <u>2-15-22</u>
	Probe ID #: <u>ERG: PR58</u> Start Time: <u>1206 EST</u>
	Timer Used (Y/N): <u>N</u> Timer ID #: <u>144</u>
	Leak Check: <u>PASS</u> FAIL (Circle One) Leak Check Rate: <u>0</u> (if applicable)
Lab Recovery	Field Initial Can. Press.: <u>29 in.</u> "Hg Canister Valve Opened (Y/N): <u>Y</u>
	Recovery Date: <u>2-16-2022</u> End Date: <u>2-16-2022</u>
	Operator: <u>Jason Thomas</u> End Time: <u>1206 EST</u>
	Field Final Can. Press.: <u>3 in Hg</u> "Hg Status: <u>VALID</u> VOID (Circle one) Canister Valve Closed (Y/N): <u>Y</u>
Lab Recovery	Relinquished by: <u>Jason Thomas</u> Date: <u>2-17-2022</u>
	Received by: <u>GK</u> Date: <u>02-18-2022</u>
	Lab Final Can. Press.: <u>4.5</u> "Hg Gauge: 1 2 <u>3</u> (Circle one)
	Status: <u>VALID</u> VOID (Circle one) If void, why: _____

Samples stored in Air Tox Lab (Room 130)

Comments: 2-15-22 Leak check start 11:58 EST 29 inHg end 1203 EST 29 inHg
9°C sunny Dickson sn 15231184 JT
2-16-22 sunny 21°C Dickson sn 15231184 JT



ERG Tanner Research Group, Inc. 801 Keystone Park Drive, Suite 700, Morrisville, NC 27560		ERG Lab ID # 2021802-02	
PASSIVE SAMPLE CHAIN OF CUSTODY			
Lab Pre-Sampling	Site: #15 Institute, WV	Canister Number: 41558	
	City/State:	Lab Initial Can. Press. ("Hg): 30"	
	Options:	Cleaning Batch #: H1-1295	
	SNMOC (Y/N):	Date Can. Cleaned: 1/26/22	
	TOXICS (Y/N):	Duplicate Event (Y/N):	
	METHANE (Y/N):	Duplicate Can #:	
	Relinquished by: RMB	Date: 1/31/22	
Field Setup	Received by: J. R. Fewell	Date: 2-1-2022	
	Operator: Tyler Fewell	Start Date: 2-15-2022	
	Probe ID #: PR-87	Start Time: 1211	
	Timer Used (Y/N): N	Timer ID #: N/A 2-15-22 7F	
	Leak Check: PASS FAIL (Circle one)	Leak Check Rate: N/A 0 (if applicable)	
	Field Initial Can. Press.: 29.5 "Hg	Canister Valve Opened (Y/N): Y	
Field Recovery	Recovery Date: 2-16-2022	End Date: 2-16-2022	
	Operator: Tyler Fewell	End Time: 1211	
	Field Final Can. Press.: 1 "Hg	Canister Valve Closed (Y/N): Y	
	Status: VALID VOID (Circle one)	Relinquished by: J. R. Fewell	Date: 2-12-2022
Lab Recovery	Received by: GK	Date: 02/18/2022	
	Lab Final Can. Press.: 0.3 "Hg		
	Status: VALID VOID (Circle one)	Gauge: 1 2 3 (Circle one)	
	If void, why:		

Samples stored in Air Tox Lab (Room 130)

Comments: Leak check at 1206 = 30 inHg, at 1211 = 30 inHg
Weather - 9.2°C, 757.3 mmHg, Sunny (streamline pro 5190402)
Weather at pickup - 16.8°C, 753.3 mmHg, Sunny, windy



ERG		ERG Lab ID # 2021802-03	
601 Keystone Park Drive, Suite 700, Morrisville, NC 27560			
PASSIVE SAMPLE CHAIN OF CUSTODY			
Lab Pre-Sampling	Site: #13 Institute, WV	Canister Number: 41632	
	City/State: _____	Lab Initial Can. Press. ("Hg): 30"	
	Options:	Cleaning Batch #: H2-1296	
	SNMOC (Y/N): _____	Date Can. Cleaned: 1/27/22	
	TOXICS (Y/N): _____	Duplicate Event (Y/N): _____	
	METHANE (Y/N): _____	Duplicate Can #: _____	
	Relinquished by: RMB	Date: 1/31/22	
Field Setup	Received by: Tyler R. Fewell	Date: 2-1-2022	
	Operator: Tyler Fewell	Start Date: 2-15-2022	
	Probe ID #: PR-85	Start Time: 1114	
	Timer Used (Y/N): N	Timer ID #: N/A	
	Leak Check: <u>PASS</u> FAIL (Circle One)	Leak Check Rate: N/A 2-15-22 TF (if applicable)	
	Field Initial Can. Press.: 30 "Hg	Canister Valve Opened (Y/N): Y	
Field Recovery	Recovery Date: 2-16-2022	End Date: 2-16-2022	
	Operator: Tyler Fewell	End Time: 1114	
	Field Final Can. Press.: 1 "Hg	Canister Valve Closed (Y/N): Y	
	Status: <u>VALID</u> VOID (Circle one)	Date: 2-17-2022	
	Relinquished by: Tyler R. Fewell		
Lab Recovery	Received by: GK	Date: 02/18/2023	
	Lab Final Can. Press.: 0.1 "Hg		
	Status: <u>VALID</u> VOID (Circle one)	Gauge: 1 2 <u>3</u> (Circle one)	
	If void, why: _____		

Samples stored in Air Tox Lab (Room 130)

Comments: Leak check at 1108 = 30 inHg, Leak at 1113 = 30 inHg
Weather - 4.5°C, 758.2 mmHg, Sunny at setup (Streamline pro 519042)
Weather - 16.3°C 753.8 mmHg, sunny, windy at take down.



ERG		ERG Lab ID # 2021802-04	
601 Keystone Park Drive, Suite 700, Morrisville, NC 27560			
PASSIVE SAMPLE CHAIN OF CUSTODY			
Lab Pre-Sampling	Site: #14 Institute, WV	Canister Number: 41556	
	City/State: _____	Lab Initial Can. Press. ("Hg): 30"	
	Options:	Cleaning Batch #: 42-1296	
	SNMOC (Y/N): _____	Date Can. Cleaned: 1/27/22	
Field Setup	TOXICS (Y/N): _____	Duplicate Event (Y/N): _____	
	METHANE (Y/N): _____	Duplicate Can #: _____	
	Relinquished by: RMB	Date: 1/31/22	
	Received by: J. R. Fewell	Date: 2-1-2022	
Field Recovery	Operator: Tyler Fewell	Start Date: 2-15-2022	
	Probe ID #: PR-75	Start Time: 1031	
	Timer Used (Y/N): N	Timer ID #: TPA/N/A	
	Leak Check: PASS FAIL (Circle One)	Leak Check Rate: N/A (if applicable)	
Lab Recovery	Field Initial Can. Press.: 30 "Hg	Canister Valve Opened (Y/N): Y	
	Recovery Date: 2-15-2022	End Date: 2-16-2022	
	Operator: Tyler Fewell	End Time: 1031	
	Field Final Can. Press.: 1 "Hg	Canister Valve Closed (Y/N): Y	
Lab Recovery	Status: VALID VOID (Circle one)	Relinquished by: J. R. Fewell	Date: 2-12-2022
	Received by: MW	Date: 2/18/22	
	Lab Final Can. Press.: 0.5 "Hg	Gauge: 1 2 3 (Circle one)	
	Status: VALID VOID (Circle one)	If void, why: _____	

Samples stored in Air Tox Lab (Room 130)

Comments: leak check at 1025 = 30" Hg. Leak check at 1030 = 30" Hg.
3.5°C, 757.9 mmHg, Sunny at setup. Streamline pro SP1010.
weather at pick up - 13.1°C, 753.7 mmHg, Sunny.



 ERG Lab ID # 2021802-05		
PASSIVE SAMPLE CHAIN OF CUSTODY		
Lab Pre-Sampling	Site: #3 North Charleston	Canister Number: 18831
	City/State:	Lab Initial Can. Press. ("Hg): 30"
	Options:	Cleaning Batch #: 41-1294
	SNMOC (Y/N):	Date Can. Cleaned: 1/25/22
	TOXICS (Y/N):	Duplicate Event (Y/N):
	METHANE (Y/N):	Duplicate Can #:
Field Setup	Relinquished by: RUB	Date: 1/31/22
	Received by: Tyler R. Fenell	Date: 2-1-2022
	Operator: Tyler Fenell	Start Date: 2-5-2022
	Probe ID #: PR-79	Start Time: 1303
	Timer Used (Y/N): N	Timer ID #: N/A 2-15-22 TF
	Leak Check: <u>PASS</u> FAIL (Circle One)	Leak Check Rate: N/A 1.0 (if applicable)
Field Recovery	Field Initial Can. Press.: 30 "Hg	Canister Valve Opened (Y/N): Y
	Recovery Date: 2-16-2022	End Date: 2-16-2022
	Operator: Tyler Fenell	End Time: 1303
	Field Final Can. Press.: 1 "Hg	Canister Valve Closed (Y/N): Y
	Status: <u>VALID</u> VOID (Circle one)	Relinquished by: Tyler R. Fenell
	Date: 2-17-2022	
Lab Recovery	Received by: G/K	Date: 02/18/2022
	Lab Final Can. Press.: 0.3 "Hg	
	Status: <u>VALID</u> VOID (Circle one)	Gauge: 1 2 <u>(3)</u> (Circle one)
	If void, why:	

Samples stored in Air Tox Lab (Room 130)

Comments: Leak at 1257 = 30 in Hg, Leak at 121302 = 29.0 in Hg
weather - 14.4°C, 756.8 mmHg, Sunny, Streamline pro 5190402
weather at pick up - 18.6°C, 752.4 mmHg, Sunny, Windy





ERG		ERG Lab ID # 2021802-06	
601 Keystone Park Drive, Suite 700, Morrisville, NC 27560			
PASSIVE SAMPLE CHAIN OF CUSTODY			
Lab Pre-Sampling	Site: #4 North Charleston	Canister Number: 41569	
	City/State: _____	Lab Initial Can. Press. ("Hg): 30"	
	Options:	Cleaning Batch #: H2-1296	
	SNMOC (Y/N): _____	Date Can. Cleaned: 1/27/22	
	TOXICS (Y/N): _____	Duplicate Event (Y/N): _____	
	METHANE (Y/N): _____	Duplicate Can #: _____	
	Relinquished by: RMB	Date: 1/31/22	
Field Setup	Received by: Tyler R. Fewell	Date: 2-1-2022	
	Operator: Tyler Fewell	Start Date: 2-15-2022	
	Probe ID #: PR-86	Start Time: 1242	
	Timer Used (Y/N): N	Timer ID #: TF A/AI N/A	
	Leak Check: <u>PASS</u> FAIL (Circle One)	Leak Check Rate: A/A 2-15-22 TF	(if applicable)
	Field Initial Can. Press.: 30 "Hg	Canister Valve Opened (Y/N): Y	
Field Recovery	Recovery Date: 2-16-2022	End Date: 2-16-2022	
	Operator: Tyler Fewell	End Time: 1242	
	Field Final Can. Press.: 1.5 "Hg	Canister Valve Closed (Y/N): Y	
	Status: <u>VALID</u> VOID (Circle one)	Relinquished by: Tyler R. Fewell	Date: 2-17-2022
Lab Recovery	Received by: GK	Date: 2/18/2022	
	Lab Final Can. Press.: 0.6 "Hg		
	Status: <u>VALID</u> VOID (Circle one)	Gauge: 1 2 <u>3</u> (Circle one)	
	If void, why: _____		

Samples stored in Air Tox Lab (Room 130)

Comments: Leak at 1236 = 30 in Hg, Leak at 1241 = 30 in Hg
weather - 7.9°C, 757.3 mmHg, Sunny (streamline pro 5190402)
Had to tighten the connector to get it to pass
the leak check. It initially was dropping too much
weather at pick up - 19.2°C, 753.0 mmHg, Sunny, windy



ERG Environmental Research Group, Inc. 601 Keystone Park Drive, Suite 700, Morrisville, NC 27560		ERG Lab ID # 2021802-07	
PASSIVE SAMPLE CHAIN OF CUSTODY			
Lab Pre-Sampling	Site: <u>#10 Institute, WI</u>	Canister Number: <u>41665</u>	
	City/State: _____	Lab Initial Can. Press. ("Hg): <u>30"</u>	
	Options:	Cleaning Batch #: <u>42-1296</u>	
	SNMOC (Y/N): _____	Date Can. Cleaned: <u>1/27/22</u>	
	TOXICS (Y/N): _____	Duplicate Event (Y/N): _____	
	METHANE (Y/N): _____	Duplicate Can #: _____	
	Relinquished by: <u>RMB</u>	Date: <u>1/31/22</u>	
Field Setup	Received by: <u>Tyler R. Fewell</u>	Date: <u>2-1-2022</u>	
	Operator: <u>Tyler Fewell</u>	Start Date: <u>2-15-2022</u>	
	Probe ID #: <u>PR-91</u>	Start Time: <u>1136</u>	
	Timer Used (Y/N): <u>N</u>	Timer ID #: <u>N/A</u>	
	Leak Check: <u>PASS</u> FAIL (Circle One)	Leak Check Rate: <u>N/A</u> (if applicable)	
	Field Initial Can. Press.: <u>30 inHg</u> "Hg	Canister Valve Opened (Y/N): <u>Y</u>	
Field Recovery	Recovery Date: <u>2-16-2022</u>	End Date: <u>2-16-2022</u>	
	Operator: <u>Tyler Fewell</u>	End Time: <u>1136</u>	
	Field Final Can. Press.: <u>0</u> "Hg	Canister Valve Closed (Y/N): <u>Y</u>	
	Status: <u>VALID</u> VOID (Circle one)		
	Relinquished by: <u>Tyler R. Fewell</u>	Date: <u>2-17-2022</u>	
	Received by: <u>GK</u>	Date: <u>02/16/2022</u>	
Lab Recovery	Lab Final Can. Press.: <u>0.1</u> "Hg <u>PSI</u>		
	Status: <u>VALID</u> VOID (Circle one)	Gauge: <u>1</u> <u>2</u> <u>(3)</u> (Circle one)	
	If void, why: _____		
Samples stored in Air Tox Lab (Room 130)			

Comments: Leak check at 1130 = 30 inHg, Leak at 1035 = 30 inHg
Weather - 5.0°C, 758.2 mmHg, Sunny (streamline pro SI90402)
Weather at pickup - 15.5°C, 753.3 mmHg, Sunny, Windy

White: Sample Traveler

Canary: Lab Copy

Pink: Field Copy



Third Sampling Period: March 23-24, 2022

ERG		ERG Lab ID # 2032918-01	
601 Keystone Park Drive, Suite 700, Morrisville, NC 27560			
PASSIVE SAMPLE CHAIN OF CUSTODY			
Lab Pre-Sampling	Site: #15 Institute, WV	Canister Number: 41614	
	City/State: _____	Lab Initial Can. Press. ("Hg): 29.9	
	Options:	Cleaning Batch #: 112-1327	
	SNMOC (Y/N): _____	Date Can. Cleaned: 3/9/22	
	TOXICS (Y/N): _____	Duplicate Event (Y/N): _____	
	METHANE (Y/N): _____	Duplicate Can #: _____	
	Relinquished by: CH	Date: 3/10/22	
Field Setup	Received by: Tyler R. Fewell	Date: 3-11-22	
	Operator: Tyler Fewell	Start Date: 3-23-2022	
	Probe ID #: PR-79	Start Time: 11:23-1113 EST	
	Timer Used (Y/N): N	Timer ID #: N/A	
	Leak Check: PASS FAIL (Circle One)	Leak Check Rate: 0 (if applicable)	
	Field Initial Can. Press.: 29.5 in Hg "Hg	Canister Valve Opened (Y/N): Y	
Field Recovery	Recovery Date: 3-24-2022	End Date: 3-24-2022	
	Operator: Tyler Fewell	End Time: 1113 EST	
	Field Final Can. Press.: 2.5 "Hg	Canister Valve Closed (Y/N): Y	
	Status: VALID VOID (Circle one)	Date: 3-28-2022	
	Relinquished by: Tyler R. Fewell		
Lab Recovery	Received by: MW	Date: 3/29/22	
	Lab Final Can. Press.: 3.00 "Hg	Gauge: 1 2 (7) (Circle one)	
	Status: VALID VOID (Circle one)		
	If void, why: _____		
Samples stored in Air Tox Lab (Room 130)			
Comments: Leak Check at 1106 EST 29.5 in Hg Check at 1111 EST 29.5 in Hg Weather at Setup 21.4°C, 73% Humidity, Cloudy, Windy Weather at Pick up 17.2°C, Partly Cloudy, Windy			

White: Sample Traveler

Canary: Lab Copy

Pink: Field Copy



C1

ERG		ERG Lab ID # 2032918-02	
801 Keystone Park Drive, Suite 700, Morrisville, NC 27560			
PASSIVE SAMPLE CHAIN OF CUSTODY			
Lab Pre-Sampling	Site: #13 Institute, WV	Canister Number: 41614	
	City/State:	Lab Initial Can. Press. ("Hg): 29.8	
	Options:	Cleaning Batch #: H1-1325	
	SNMOC (Y/N):	Date Can. Cleaned: 3/8/22	
	TOXICS (Y/N):	Duplicate Event (Y/N):	
	METHANE (Y/N):	Duplicate Can #:	
	Relinquished by: Ch	Date: 3/10/22	
Field Setup	Received by: J. R. Fewell	Date: 3-11-22	
	Operator: Tyler Fewell	Start Date: 3-23-2022	
	Probe ID #: PR-73	Start Time: 3-23-2022 1047 0947 EST	
	Timer Used (Y/N): N	Timer ID #: N/A	
	Leak Check: PASS FAIL (Circle One)	Leak Check Rate: (if applicable)	
	Field Initial Can. Press.: 29 "Hg	Canister Valve Opened (Y/N): Y	
Field Recovery	Recovery Date: 3-24-2022	End Date: 3-24-2022	
	Operator: Tyler Fewell	End Time: 0947 EST	
	Field Final Can. Press.: 0 "Hg		
	Status: VALID VOID (Circle one)	Canister Valve Closed (Y/N): Y	
	Relinquished by: J. R. Fewell	Date: 3-28-2022	
Lab Recovery	Received by: MW	Date: 3/29/22	
	Lab Final Can. Press.: 0.30 "Hg		
	Status: VALID VOID (Circle one)	Gauge: 1 2 (Circle one)	
	If void, why:		
	Samples stored in Air Tox Lab (Room 130)		

Comments: leak check at 1037^{TF} = 29 in Hg at 1042^{TF} = 28 in Hg
weather at set up 18.9°C, 737.7 mmHg, mostly cloudy
weather at pick up - 13.1°C, mostly cloudy, windy



C2

ERG		ERG Lab ID # 2032918-03	
601 Keystone Park Drive, Suite 700, Morrisville, NC 27560			
PASSIVE SAMPLE CHAIN OF CUSTODY			
Lab Pre-Sampling	Site: #13 C institute, WV	Canister Number: 18876	
	City/State: _____	Lab Initial Can. Press. ("Hg): 29.9	
	Options:	Cleaning Batch #: H1-1326	
	SNMOC (Y/N): _____	Date Can. Cleaned: 3/8/22	
	TOXICS (Y/N): _____	Duplicate Event (Y/N): _____	
	METHANE (Y/N): _____	Duplicate Can #: _____	
	Relinquished by: CH	Date: 3/10/22	
Field Setup	Received by: Tyler R. Fewell	Date: 3-11-22	
	Operator: Tyler Fewell	Start Date: 3-23-22	
	Probe ID #: PR-41	Start Time: 7:04 0947 EST	
	Timer Used (Y/N): N	Timer ID #: N/A	
	Leak Check: PASS FAIL (Circle One)	Leak Check Rate: 1 (if applicable)	
	Field Initial Can. Press.: 29 "Hg	Canister Valve Opened (Y/N): Y	
Field Recovery	Recovery Date: 3-24-2022	End Date: 3-24-2022	
	Operator: Tyler Fewell	End Time: 0950 0947 EST	
	Field Final Can. Press.: 8 "Hg	Canister Valve Closed (Y/N): Y	
	Status: VALID VOID (Circle one)	Relinquished by: Tyler R. Fewell	Date: 3-28-2022
Lab Recovery	Received by: MW	Date: 3/29/22	
	Lab Final Can. Press.: 7.90 "Hg	Gauge: 1 2 (3) (Circle one)	
	Status: VALID VOID (Circle one)	If void, why: _____	
	Samples stored in Air Tox Lab (Room 130)		

Comments: Collocated Sample. Leak Check at 10:37 TE 3-23-22 0942 TE 3-23-22
weather at set up 18.9°C, 737.7 mmHg, mostly cloudy. at 10:42 TE 3-23-22 28.0 in
weather at pick up 13.1°C, mostly cloudy, windy



ERG Environmental Research Group, Inc. 601 Keystone Park Drive, Suite 700, Morrisville, NC 27560		ERG Lab ID # <u>2032718-04</u>	
PASSIVE SAMPLE CHAIN OF CUSTODY			
Lab Pre-Sampling	Site: <u>#3 North Charleston, WV</u>	Canister Number: <u>33506</u>	
	City/State: _____	Lab Initial Can. Press. ("Hg): <u>29.9</u>	
Field Setup	Options:	Cleaning Batch #: <u>H2-1327</u>	
	SNMOC (Y/N): _____	Date Can. Cleaned: <u>3/9/22</u>	
	TOXICS (Y/N): _____	Duplicate Event (Y/N): _____	
	METHANE (Y/N): _____	Duplicate Can #: _____	
	Relinquished by: <u>Ch</u>	Date: <u>3/10/22</u>	
	Received by: <u>Tyler R. Fewell</u>	Date: <u>3-11-22</u>	
Field Recovery	Operator: <u>Tyler Fewell</u>	Start Date: <u>3-23-2022</u>	
	Probe ID #: <u>PR-86 87</u>	Start Time: <u>3:23:23 TF +309-1209 EST</u>	
	Timer Used (Y/N): <u>N</u>	Timer ID #: <u>N/A</u>	
	Leak Check: <u>PASS</u> <u>FAIL</u> (Circle One)	Leak Check Rate: <u>0</u> (if applicable)	
	Field Initial Can. Press.: <u>29</u> "Hg	Canister Valve Opened (Y/N): <u>Y</u>	
	Recovery Date: <u>3-24-2022</u>	End Date: <u>3-24-2022</u>	
Lab Recovery	Operator: <u>Tyler Fewell</u>	End Time: <u>1209 EST</u>	
	Field Final Can. Press.: <u>2.5</u> "Hg	Canister Valve Closed (Y/N): <u>Y</u>	
	Status: <u>VALID</u> <u>VOID</u> (Circle one)	Relinquished by: <u>Tyler R. Fewell</u>	Date: <u>3-28-2022</u>
	Received by: <u>MW</u>	Date: <u>3/29/22</u>	
Lab Final Can. Press.: <u>3.00</u> "Hg			
Status: <u>VALID</u> <u>VOID</u> (Circle one)		Gauge: 1 2 <u>(?)</u> (Circle one)	
If void, why: _____			
Samples stored in Air Tox Lab (Room 130)			

Comments: First regulator failed the leak check. Replaced with
PR-87. Leak at 1302 = 29 inHg, leak at 1302 = 29 inHg
weather at set up = 23.4°C, 735.9 mmHg, cloudy, windy
weather at pick up = 18.5°C, sunny, light wind



ERG		ERG Lab ID # 2032918-05	
601 Keystone Park Drive, Suite 700, Morrisville, NC 27560			
PASSIVE SAMPLE CHAIN OF CUSTODY			
Lab Pre-Sampling	Site: #0 South Charleston, WV	Canister Number: 19296	
	City/State: _____	Lab Initial Can. Press. ("Hg): 29.9	
	Options:	Cleaning Batch #: H1-1326	
	SNMOC (Y/N): _____	Date Can. Cleaned: 3/8/22	
	TOXICS (Y/N): _____	Duplicate Event (Y/N): _____	
	METHANE (Y/N): _____	Duplicate Can #: _____	
	Relinquished by: Ch	Date: 3/10/22	
Field Setup	Received by: Tyler R. Fewell	Date: 3-11-22	
	Operator: Tyler Fewell	Start Date: 3-23-2022	
	Probe ID #: PR-77	Start Time: 3:23:23 / 1335 1235 EST	
	Timer Used (Y/N): N	Timer ID #: N/A	
	Leak Check: PASS FAIL (Circle One)	Leak Check Rate: (if applicable)	
	Field Initial Can. Press.: 29 "Hg	Canister Valve Opened (Y/N): Y	
Field Recovery	Recovery Date: 3-24-2022	End Date: 3-24-2022	
	Operator: Tyler Fewell	End Time: 1235 EST	
	Field Final Can. Press.: 7 "Hg	Canister Valve Closed (Y/N): Y	
	Status: VALID VOID (Circle one)	Relinquished by: Tyler R. Fewell	Date: 3-28-2022
Lab Recovery	Received by: MW	Date: 3/29/22	
	Lab Final Can. Press.: 7.00 "Hg		
	Status: VALID VOID (Circle one)	Gauge: 1 2 (Circle one)	
	If void, why: _____		

Samples stored in Air Tox Lab (Room 130)

1-2020

Comments: leak check at 1227 EST 29.9 in Hg, at 1232 EST 29.9 in Hg
weather at Set up - 24.8°C, 735 mmHg, cloudy, windy
weather at pick up 20.3°C, cloudy, light wind



ERG		ERG Lab ID # 2032918-06	
601 Keystone Park Drive, Suite 700, Morrisville, NC 27580			
PASSIVE SAMPLE CHAIN OF CUSTODY			
Lab Pre-Sampling	Site: # 4 North Charleston WV	Canister Number: 18879	
	City/State: _____	Lab Initial Can. Press. ("Hg): 29.9	
	Options:	Cleaning Batch #: H1-1326	
	SNMOC (Y/N): _____	Date Can. Cleaned: 3/8/22	
	TOXICS (Y/N): _____	Duplicate Event (Y/N): _____	
	METHANE (Y/N): _____	Duplicate Can #: _____	
	Relinquished by: CH	Date: 3/10/22	
Field Setup	Received by: Tyler R. Fewell	Date: 3-11-22	
	Operator: Tyler Fewell	Start Date: 3-23-2022	
	Probe ID #: PR-85	Start Time: 3-23-22 1243-1143 EST	
	Timer Used (Y/N): N	Timer ID #: N/A	
	Leak Check: PASS FAIL (Circle One)	Leak Check Rate: 1 (if applicable)	
	Field Initial Can. Press.: 29 "Hg	Canister Valve Opened (Y/N): Y	
Field Recovery	Recovery Date: 3-24-2022	End Date: 3-24-2022	
	Operator: Tyler Fewell	End Time: 1143 EST	
	Field Final Can. Press.: 2 "Hg	Canister Valve Closed (Y/N): Y	
	Status: VALID VOID (Circle one)	Relinquished by: Tyler R. Fewell	Date: 3-28-2022
Lab Recovery	Received by: MW	Date: 3/29/22	
	Lab Final Can. Press.: 3.00 "Hg		
	Status: VALID VOID (Circle one)	Gauge: 1 2 5 (Circle one)	
	If void, why: _____		

Samples stored in Air Tox Lab (Room 130)

Comments: 1134 EST Leak check at 1234^{IF} 29 inHg, Leak at 1239^{IF} 28 inHg
Weather at set up 22.4°C, 7362 mmHg, Sunny windy
Weather at pick up 17.6°C, Sunny, light wind



 601 Keystone Park Drive, Suite 700, Morrisville, NC 27560		ERG Lab ID # <u>2032918-07</u>	
PASSIVE SAMPLE CHAIN OF CUSTODY			
Lab Pre-Sampling	Site: <u>#10 Institute, WV</u>	Canister Number: <u>19661</u>	
	City/State: _____	Lab Initial Can. Press. ("Hg): <u>29.8</u>	
	Options:	Cleaning Batch #: <u>41-1326</u>	
	SNMOC (Y/N): _____ TOXICS (Y/N): _____ METHANE (Y/N): _____ Relinquished by: <u>CL</u>	Date Can. Cleaned: <u>3/8/22</u> Duplicate Event (Y/N): _____ Duplicate Can #: _____ Date: <u>3/10/22</u>	
Field Setup	Received by: <u>Tyler R. Fewell</u>	Date: <u>3-11-22</u>	
	Operator: <u>Tyler Fewell</u>	Start Date: <u>3-23-2022</u>	
	Probe ID #: <u>PR-91</u>	Start Time: <u>2:23-23 Hrs 10/3 EST</u>	
	Timer Used (Y/N): <u>NA</u>	Timer ID #: <u>N/A</u>	
	Leak Check: <u>PASS</u> FAIL (Circle One)	Leak Check Rate: <u>0</u> (if applicable)	
	Field Initial Can. Press.: <u>29.2</u> "Hg	Canister Valve Opened (Y/N): <u>Y</u>	
Field Recovery	Recovery Date: <u>3-24-2022</u>	End Date: <u>3-23-2022</u>	
	Operator: <u>Tyler Fewell</u>	End Time: <u>24 10/3 EST</u>	
	Field Final Can. Press.: <u>2</u> "Hg	Canister Valve Closed (Y/N): <u>Y</u>	
	Status: <u>VALID</u> VOID (Circle one)	Relinquished by: <u>Tyler R. Fewell</u>	Date: <u>3-28-2022</u>
Lab Recovery	Received by: <u>MW</u>	Date: <u>3/29/22</u>	
	Lab Final Can. Press.: <u>2.50</u> ("Hg)		
	Status: <u>VALID</u> VOID (Circle one)	Gauge: <u>1</u> <u>2</u> (?) (Circle one)	
	If void, why: <u>ECN</u>		

Samples stored in Air Tox Lab (Room 130)

Comments: Leak Check at 1006 EST 3-21-22 at HHI = 29.2 inHg 1011 EST 3-23-22 at HHI = 29.2 inHg
Weather at Setup = 18.9°C, 737.2 mmHg, mostly cloudy
Weather at Pick up 13.8°C, partly cloudy, windy



 ERG Lab ID # <u>2032918-08</u>	
601 Keystone Park Drive, Suite 700, Morrisville, NC 27560	
PASSIVE SAMPLE CHAIN OF CUSTODY	
Lab Pre-Sampling	Site: <u>#14 Institute, WV</u> City/State: _____ Options: SNMOC (Y/N): _____ TOXICS (Y/N): _____ METHANE (Y/N): _____ Relinquished by: <u>CG</u> Canister Number: <u>18878</u> Lab Initial Can. Press. ("Hg): <u>29.9</u> Cleaning Batch #: <u>142-1327</u> Date Can. Cleaned: <u>3/9/22</u> Duplicate Event (Y/N): _____ Duplicate Can #: _____ Date: <u>3/10/22</u>
	Received by: <u>Tyler R. Fewell</u> Operator: <u>Tyler Fewell</u> Probe ID #: <u>PR-75</u> Timer Used (Y/N): <u>N</u> Leak Check: <u>PASS</u> FAIL (Circle One) Field Initial Can. Press.: <u>29.5</u> "Hg Canister Valve Opened (Y/N): <u>Y</u> Date: <u>3-7-22</u> Start Date: <u>3-23-2022</u> Start Time: <u>3-23-22 1046 EST</u> Timer ID #: <u>N/A</u> Leak Check Rate: <u>0.7</u> (if applicable)
	Recovery Date: <u>3-24-2022</u> Operator: <u>Tyler Fewell</u> Field Final Can. Press.: <u>3.5</u> "Hg Status: <u>VALID</u> VOID (Circle one) Relinquished by: <u>Tyler R. Fewell</u> Date: <u>3-28-2022</u> End Date: <u>3-24-2022</u> End Time: <u>1046 EST</u> Canister Valve Closed (Y/N): <u>Y</u>
	Received by: <u>MW</u> Lab Final Can. Press.: <u>3.50</u> "Hg Status: <u>VALID</u> VOID (Circle one) If void, why: _____ Gauge: 1 <u>2</u> (Circle one) Date: <u>3/29/22</u>
Samples stored in Air Tox Lab (Room 130)	

Comments: 1039 EST Leak check at H39^{EST} 29.9 inHg, Check at 1044^{EST} 29.2
Weather at set up 20.9°C, 737 mmHg, windy, cloudy
Weather at pick up 15.3°C, Sunny, windy



ERG		ERG Lab ID # 2032918-09	
601 Keystone Park Drive, Suite 700, Morrisville, NC 27560			
PASSIVE SAMPLE CHAIN OF CUSTODY			
Lab Pre-Sampling	Site:	Canister Number: 19300	
	City/State:	Lab Initial Can. Press. ("Hg): 29.9	
	Options:	Cleaning Batch #: H2-1327	
	SNMOC (Y/N):	Date Can. Cleaned: 3/4/22	
	TOXICS (Y/N):	Duplicate Event (Y/N):	
	METHANE (Y/N):	Duplicate Can #:	
	Relinquished by: C.J.	Date: 3/10/22	
Field Setup	Received by: J. R. Fennell	Date: 3-11-22	
	Operator: J. R. Fennell	Start Date: 3-24-22	
	Probe ID #: SA 5A-12482 2015586	Start Time: 1:55 EST	
	Timer Used (Y/N): N/A	Timer ID #: N/A	
	Leak Check: PASS (3-24-22 JT) FAIL (Circle One)	Leak Check Rate: 2.1 nHgs in 5 min (if applicable) 0.1 nHgs on 3-24-22 JT	
	Field Initial Can. Press.: 28.5 "Hg	Canister Valve Opened (Y/N): Y 3-24-22 JT	
Field Recovery	Recovery Date: 3-25-22	End Date: 3-25-22	
	Operator: J. R. Fennell	End Time: 1:55 EST	
	Field Final Can. Press.: 2 "Hg		
	Status: VALID VOID (Circle one)	Canister Valve Closed (Y/N): Y	
	Relinquished by: J. R. Fennell	Date: 3-28-2022	
Lab Recovery	Received by: MW	Date: 3/24/22	
	Lab Final Can. Press.: 3.50 "Hg		
	Status: VALID VOID (Circle one)	Gauge: 1 2 3 (Circle one)	
	If void, why:		

Samples stored in Air Tox Lab (Room 130)

Comments: 3-23-22 Leak check start at 1:07 EST, failed > 1 nHgs in 5 min. Tightened all fittings, leak check start 1:16 EST failed > 1 nHgs in 5 min. Not set up to sample on 3-23-22 due to no spare regulator. JT 3-24-22 Set up to sample on 3-24-22 with regulator SA 15586. Leak check start 1:47 EST 28 nHgs stop 1:52 EST 28 nHgs 28.5 nHgs start press JT

White: Sample Traveler

Canary: Lab Copy

Pink: Field Copy



Fourth Sampling Period: April 25-26*, 2022

*April 26-27 for #0 South Charleston, #3 South Charleston, #4 North Charleston

UPDATE with Final from ERG

ERG		ERG LIMS ID # 2042901-01	
931 Keystone Park Drive, Suite T00, Morrisville, NC 27560			
AIR TOXICS SAMPLE CHAIN OF CUSTODY			
Lab Pre-Sampling	Site Code: #0 South Charleston, WV	Canister Number: 411642	
	City/State: _____	Lab Initial Can. Press. (Hg): 30	
	AQS Code: _____	Cleaning Batch #: 42-1359	
	Collection Date: _____	Date Can. Cleaned: 4/18/22	
	Options:		
	SNMOC (Y/N): _____	Duplicate Event (Y/N): _____	
	TOXICS (Y/N): rfor	Duplicate Can #: _____	
	METHANE (Y/N): _____		
	Relinquished by: MB	Date: 4/20/22	
Field Setup	Received by: Tyler R. Farrell	Date: 4-21-22	
	Operator: Tyler Farrell	MFC Setting: N/A	
	System #: PR-85 73	Elapsed Timer Reset (Y/N): N	
	Setup Date: 4-26-22 at 1413 EST	Canister Valve Opened (Y/N): Y	
	Field Initial Can. Press.: 29.0 psig psia (Hg) (Circle one)		
Field Recovery	Recovery Date: 4-27-22	Sample Duration (3 or 24 hr): 24 hr	
	Operator: M. Drake	Elapsed Time: 1440 min	
	Field Final Can. Press.: 2.1 psig psia (Hg) (Circle one)		
	Status: VALID VOID (Circle one)	Canister Valve Closed (Y/N): Y	
	Relinquished by: Tyler R. Farrell	Date: 4-28-2022	
Lab Recovery	Received by: GK	Date: 4/25/22	
	Lab Final Can. Press.: 3.75 psig (Hg) (Circle one)		
	Status: VALID VOID (Circle one)	Gauge: 1 2 (Circle one)	
	If void, why: _____		
	Samples stored in Air Tox Lab (Room 130)		

~~Three~~ THREADS ARE STRIPPED, REPLACED VALVE

Comments: POSSIBLE threading ISSUE

Leak check at 13:33 = 29.3 inHg, Leak at 14:09 = 29.0 inHg

Weather at setup - 16.0°C, 749.4 mmHg, Cloudy

used updated leak check procedure

Closed VALVE AT 14:13 EST.

CROSS READED VALVE (GK) 4/22

White: Sample Traveler

Canary: Lab Copy

Pink: Field Copy



AIR TOXICS SAMPLE CHAIN OF CUSTODY	
Lab Pre-Sampling	Site Code: <u>#3 North Charleston, WV</u> City/State: _____ AQS Code: _____ Collection Date: _____ Options: SNMOC (Y/N): _____ TOXICS (Y/N): <u>etox</u> METHANE (Y/N): _____ Relinquished by: <u>RMB</u> Canister Number: <u>41625</u> Lab Initial Can. Press. (psig): <u>30</u> Cleaning Batch #: <u>H2-1354</u> Date Can. Cleaned: <u>4/18/22</u> Duplicate Event (Y/N): _____ Duplicate Can #: _____ Date: <u>4/20/22</u>
	Received by: <u>Igor R. Feun</u> Operator: <u>Tyler Fewell</u> System #: <u>PR-65</u> Setup Date: <u>4-26-2022 at 1336 EST</u> Field Initial Can. Press.: <u>29.0</u> psig psia <u>Hg</u> (Circle one) Date: <u>4-21-22</u> MFC Setting: <u>N/A</u> Elapsed Timer Reset (Y/N): <u>N</u> Canister Valve Opened (Y/N): <u>Y</u>
	Recovery Date: <u>4-27-22</u> Operator: <u>M. Drake</u> Field Final Can. Press.: <u>6</u> psig psia <u>Hg</u> (Circle one) Status: <u>VALID</u> VOID (Circle one) Canister Valve Closed (Y/N): <u>Y</u> Relinquished by: <u>Igor R. Feun</u> Date: <u>4-28-2022</u> Sample Duration (3 or 24 hr): <u>24</u> Elapsed Time: <u>1443 min</u> <u>24.05 hr</u> <u>24.08 hr</u>
	Received by: <u>GLK</u> Lab Final Can. Press.: <u>5.5</u> psig <u>Hg</u> (Circle one) Status: <u>VALID</u> VOID (Circle one) Gauge: 1 <u>13</u> (Circle one) If void, why: _____ Date: <u>4/28/22</u>

Samples stored in Air Tox Lab (Room 130)

Comments: Possible threading Issue.
Leak at 1329 EST = 29.5 inHg, Leak at 1334 EST = 29.4 inHg
weather at Setup = 16.0°C, 749.4 mmHg, cloudy
Used the updated leak check procedure
Temp = 21.4°C 756.5 PSI turned off VALVE at 13:39 est
THREADS ON CANISTER ARE STRIPPED REPLACE VALVE.

White: Sample Traveler Canary: Lab Copy Pink: Field Copy



ERG		ERG LIMS ID # 2042901-03	
601 Keystone Park Drive, Suite 700, Morrisville, NC 27560			
AIR TOXICS SAMPLE CHAIN OF CUSTODY			
Lab Pre-Sampling	Site Code: #15 Institute WV	Canister Number: 11610	
	City/State: _____	Lab Initial Can. Press. (Hg): 30	
	AQS Code: _____	Cleaning Batch #: H2-1387	
	Collection Date: _____	Date Can. Cleaned: 4/18/22	
	Options:	Duplicate Event (Y/N): _____	
	SNMOC (Y/N): _____	Duplicate Can #: _____	
	TOXICS (Y/N): cter		
	METHANE (Y/N): _____		
	Relinquished by: JLB	Date: 4/20/22	
Field Setup	Received by: Tyler R. Fewell	Date: 4-21-22 at 1241 EST	TF
	Operator: Tyler Fewell	MFC Setting: N/A	
	System #: PR-21	Elapsed Timer Reset (Y/N): N	
	Setup Date: 4-25-2022 at 1241 EST	Canister Valve Opened (Y/N): Y	
	Field Initial Can. Press.: 29.5 psig psia (Hg) (Circle one)		
Field Recovery	Recovery Date: 4-26-2022 at _____	Sample Duration (3 or 24 hr): 24	
	Operator: Tyler Fewell	Elapsed Time: 24.00 hours	
	Field Final Can. Press.: 8 psig psia (Hg) (Circle one)		
	Status: VALID VOID (Circle one)	Canister Valve Closed (Y/N): Y	
	Relinquished by: JLB	Date: 4-28-2022	
Lab Recovery	Received by: GK	Date: 4/29/22	
	Lab Final Can. Press.: 7.5 psig (Hg) (Circle one)		
	Status: VALID VOID (Circle one)	Gauge: 1 3 (Circle one)	
	If void, why: _____		
Samples stored in Air Tox Lab (Room 130)			

Comments: leak at 1232 = 29.8 inHg, Leak at 1237 = 29.0 inHg
weather at set up 31.0°C, cloudy, light wind, 7454 humidity
weather at pick up - 18.3°C, 749.8 humidity, cloudy, light wind
We had heavy rain overnight



 601 Keystone Park Drive, Suite 700, Morrisville, NC 27560		ERG LIMS ID # <u>2042901-04</u>	
AIR TOXICS SAMPLE CHAIN OF CUSTODY			
Lab Pre-Sampling	Site Code: _____	Canister Number: <u>41623</u>	
	City/State: _____	Lab Initial Can. Press. ("Hg): <u>30</u>	
	AQS Code: _____	Cleaning Batch #: <u>H2-1359</u>	
	Collection Date: _____	Date Can. Cleaned: <u>1/18/22</u>	
	Options:		
	SNMOC (Y/N): _____	Duplicate Event (Y/N): _____	
	TOXICS (Y/N): <u>enter</u>	Duplicate Can #: _____	
METHANE (Y/N): _____			
Relinquished by: <u>RUB</u>	Date: <u>4/26/22</u>		
Field Setup	Received by: <u>Felix R. Fowell</u>	Date: <u>4-25-22</u>	
	Operator: <u>Jon Thorne</u>	MFC Setting: <u>NA</u>	
	System #: <u>can 41623 reg 15586</u>	Elapsed Timer Reset (Y/N): <u>NA</u>	
	Setup Date: <u>4-25-22 sample start 1158 EST</u>	Canister Valve Opened (Y/N): <u>Y</u>	
	Field Initial Can. Press.: <u>29</u>	psig psia <u>(Hg)</u> (Circle one)	
Field Recovery	Recovery Date: <u>4-26-22 1158 EST</u>	Sample Duration (3 or 24): <u>24 hr</u>	
	Operator: <u>Jon Thorne</u>	Elapsed Time: <u>1440 min</u>	
	Field Final Can. Press.: <u>4</u>	psig psia <u>(Hg)</u> (Circle one)	
	Status: <u>(VALID)</u> VOID (Circle one)	Canister Valve Closed (Y/N): <u>Y</u>	
	Relinquished by: <u>Felix R. Fowell</u>	Date: <u>4-28-22</u>	
Lab Recovery	Received by: <u>GLK</u>	Date: <u>4/29/22</u>	
	Lab Final Can. Press.: <u>4</u>	psig <u>(Hg)</u> (Circle one)	
	Status: <u>(VALID)</u> VOID (Circle one)	Gauge: 1 <u>(3)</u> (Circle one)	
	If void, why: _____		

Samples stored in Air Tox Lab (Room 130)

Comments: 4-25-22 sunny 31°C Dickson 1522/1184 leak check start
1149 EST 29 in Hg stop 1154 EST 29 in Hg JT

4-26-22 cloudy 10°C Dickson 1523/1184 heavy rain overnight JT



 601 Kaystone Park Drive, Suite 700, Morrisville, NC 27560		ERG LIMS ID # <u>2042901-05</u>	
AIR TOXICS SAMPLE CHAIN OF CUSTODY			
Lab Pre-Sampling	Site Code: <u>#13 Institute, WV</u>	Canister Number: <u>41582</u>	
	City/State: _____	Lab Initial Can. Press. (inHg): <u>30</u>	
	AQS Code: _____	Cleaning Batch #: <u>H2-1359</u>	
	Collection Date: _____	Date Can. Cleaned: <u>4/18/22</u>	
	Options:		
	SNMOC (Y/N): _____	Duplicate Event (Y/N): _____	
	TOXICS (Y/N): <u>etox</u>	Duplicate Can #: _____	
	METHANE (Y/N): _____		
	Relinquished by: <u>RUB</u>	Date: <u>4/26/22</u>	
Field Setup	Received by: <u>Tyler R. Fewell</u>	Date: <u>4-21-22 at 1019 EST</u>	TF
	Operator: <u>Tyler Fewell</u>	MFC Setting: <u>N/A</u>	
	System #: <u>PR-75</u>	Elapsed Timer Reset (Y/N): <u>N</u>	
	Setup Date: <u>4-25-2022 at 1019 EST</u>	Canister Valve Opened (Y/N): <u>Y</u>	
	Field Initial Can. Press.: <u>29.9</u> psig psia <u>Hg</u> (Circle one)		
Field Recovery	Recovery Date: <u>4-26-2022 at 1120 EST</u>	Sample Duration (3 or 24 hr): <u>24</u>	
	Operator: <u>Tyler Fewell</u>	Elapsed Time: <u>25:01 hours</u>	
	Field Final Can. Press.: <u>4</u> psig psia <u>Hg</u> (Circle one)		
	Status: <u>VALID</u> VOID (Circle one)	Canister Valve Closed (Y/N): <u>Y</u>	
	Relinquished by: <u>Tyler R. Fewell</u>	Date: <u>4-28-2022</u>	
Lab Recovery	Received by: <u>AK</u>	Date: <u>4/29/22</u>	
	Lab Final Can. Press.: <u>3</u> psig <u>Hg</u> (Circle one)		
	Status: <u>VALID</u> VOID (Circle one)	Gauge: 1 <u>3</u> (Circle one)	
	If void, why: _____		
Samples stored in Air Tox Lab (Room 130)			

01-2023

Comments: Leak at 1009 = 29.9 inHg, Leak at 1014 = 29.5 inHg
Weather at setup = 29.4°C, 246.8 inHg,
Weather at pick up = 14.9°C, 750.8 mmHg, Cloudy, light wind
We had heavy rain overnight.



ERG		ERG LIMS ID # 2042901-06	
501 Keystone Park Drive, Suite T00, Morrisville, NC 27560			
AIR TOXICS SAMPLE CHAIN OF CUSTODY			
Lab Pre-Sampling	Site Code: #14 Institute, WV	Canister Number: 41169	
	City/State: _____	Lab Initial Can. Press. ("Hg): 30	
	AQS Code: _____	Cleaning Batch #: 42-1389	
	Collection Date: _____	Date Can. Cleaned: 4/18/22	
	Options:		
	SNMOC (Y/N): _____	Duplicate Event (Y/N): _____	
	TOXICS (Y/N): rtex	Duplicate Can #: _____	
	METHANE (Y/N): _____		
Relinquished by: RUB	Date: 4/26/22		
Field Setup	Received by: Tyler Fewell	Date: 4-21-22 at 0927 EST TF	
	Operator: Tyler Fewell	MFC Setting: N/A	
	System #: PR-77	Elapsed Timer Reset (Y/N): N	
	Setup Date: 4-25-2022 at 0927 EST	Canister Valve Opened (Y/N): Y	
	Field Initial Can. Press.: 29.9	psig psia (Hg) (Circle one)	
Field Recovery	Recovery Date: 4-26-2022 at 1059 EST	Sample Duration (3 or 24 hr): 24	
	Operator: Tyler Fewell	Elapsed Time: 25.32 hours	
	Field Final Can. Press.: 7	psig psia (Hg) (Circle one)	
	Status: VALID VOID (Circle one)	Canister Valve Closed (Y/N): Y	
	Relinquished by: Tyler Fewell	Date: 4-28-2022	
Lab Recovery	Received by: GK	Date: 4/29/22	
	Lab Final Can. Press.: 5.5	psig (Hg) (Circle one)	
	Status: VALID VOID (Circle one)	Gauge: 1 (3) (Circle one)	
	If void, why: _____		

Samples stored in Air Tox Lab (Room 130)

Comments: 0919 EST
Leak Check at 1019 TF = 29.8 inHg, Leak Check at 0924 = 28.8 inHg
Weather at Setup - 30.0°C, 746.4 mmHg, Sunny
Weather at Pick up - 14.8°C, 750.5 mmHg, Cloudy, light rain
we had heavy rain overnight.



 ERG LIMS ID # 2042901-07	
601 Keystone Park Drive, Suite 700, Morrisville, NC 27560	
AIR TOXICS SAMPLE CHAIN OF CUSTODY	
Lab Pre-Sampling	Site Code: <u>#4 North Charleston, WV</u> Canister Number: <u>411670</u>
	City/State: _____ Lab Initial Can. Press. ("Hg): <u>30</u>
	AQS Code: _____ Cleaning Batch #: <u>H2-1305</u>
	Collection Date: _____ Date Can. Cleaned: <u>4/11/22</u>
	Options:
	SNMOC (Y/N): _____ Duplicate Event (Y/N): _____
	TOXICS (Y/N): <u>etox</u> Duplicate Can #: _____
	METHANE (Y/N): _____
Field Setup	Relinquished by: <u>RMB</u> Date: <u>4/20/22</u>
	Received by: <u>Tyler R. Fewell</u> Date: <u>4-21-22</u>
	Operator: <u>Tyler Fewell</u> MFC Setting: <u>N/A</u>
	System #: <u>PR-79</u> Elapsed Timer Reset (Y/N): <u>N</u>
	Setup Date: <u>4-26-2022 at 1314 EST</u> Canister Valve Opened (Y/N): <u>Y</u>
Field Recovery	Field Initial Can. Press.: <u>4-26-2022 30</u> psig psia <u>(Hg)</u> (Circle one)
	Recovery Date: <u>4-27-22</u> Sample Duration (3 or 24 hr): <u>24 hr</u>
	Operator: <u>M. DRAKE</u> Elapsed Time: <u>24:00-00</u>
	Field Final Can. Press.: <u>2</u> psig psia <u>(Hg)</u> (Circle one) <u>1440 min</u>
	Status: <u>VALID</u> VOID (Circle one) Canister Valve Closed (Y/N): <u>Y</u>
Lab Recovery	Relinquished by: <u>Tyler R. Fewell</u> Date: <u>4-28-2022</u>
	Received by: <u>GK</u> Date: <u>4/29/22</u>
	Lab Final Can. Press.: <u>1.75</u> psig "Hg (Circle one)
	Status: <u>VALID</u> VOID (Circle one) Gauge: <u>1</u> <u>(3)</u> (Circle one)
If void, why: _____	
Samples stored in Air Tox Lab (Room 130)	

134
Comments: Leak check at 1314 EST = 30 inHg, Leak at 1311 = 29.4 inHg
Weather at Setup ~ 16.2°C, 749.5 mmHg, Cloudy
we used the updated leak check procedure.
Closed VALVE @ 13:14 EST Temp = 20.4°C Pressure = 751 mmHg
STEM IS TILTING OFF TO THE RIGHT OF THE VALVE GK

White: Sample Traveler

Canary: Lab Copy

Pink: Field Copy



ERG		ERG LIMS ID # 2042901-08	
551 Keystone Park Drive, Suite 700, Morrisville, NC 27560			
AIR TOXICS SAMPLE CHAIN OF CUSTODY			
Lab Pre-Sampling	Site Code: #10 Institute, WV	Canister Number: 41657	
	City/State:	Lab Initial Can. Press. (inHg): 30.0	
	AQS Code:	Cleaning Batch #: H2-1357	
	Collection Date:	Date Can. Cleaned: 4/18/22	
Lab Pre-Sampling	Options:	Duplicate Event (Y/N):	
	SNMOC (Y/N):	Duplicate Can #:	
	TOXICS (Y/N): etox		
	METHANE (Y/N):		
Field Setup	Relinquished by: RLB	Date: 4/21/22	
	Received by: J. R. Fewell	Date: 4-21-22 at 1045 EST TF	
	Operator: Tyler Fewell	MFC Setting: N/A	
	System #: PR-91	Elapsed Timer Reset (Y/N): N	
Field Recovery	Setup Date: 4-25-2022 at 1045 EST	Canister Valve Opened (Y/N): Y	
	Field Initial Can. Press.: 30.0 inHg	psig psia (inHg) (Circle one)	
	Recovery Date: 4-22 4-26-22 at 1136 EST	Sample Duration (3 or 24 hr): 24	
	Operator: Tyler Fewell	Elapsed Time: 24:51 hours	
Lab Recovery	Field Final Can. Press.: 2	psig psia (inHg) (Circle one)	
	Status: VALID VOID (Circle one)	Canister Valve Closed (Y/N): Y	
	Relinquished by: J. R. Fewell	Date: 4-28-22	
	Received by: GK	Date: 4/11/22	
Lab Recovery	Lab Final Can. Press.: 0.5	psig (inHg) (Circle one)	
	Status: VALID VOID (Circle one)	Gauge: 1 3 (Circle one)	
	If void, why:		
	Samples stored in Air Tox Lab (Room 130)		

01-2022

Comments: Leak at 1037 = 30.0 inHg, Leak at 1042 = 30.0 inHg
Weather at setup 26.8°C, 74.6°F, sunny, light wind
weather at pick up 14.7°C, 58.5°F, cloudy, light wind
We had heavy rain overnight.

White: Sample Traveler

Canary: Lab Copy

Pink: Field Copy



AIR TOXICS SAMPLE CHAIN OF CUSTODY	
Lab Pre-Sampling	Site Code: <u>#16 Buffalo, WV Background</u> Canister Number: <u>41607</u>
	City/State: _____ Lab Initial Can. Press. ("Hg): <u>30</u>
	AQS Code: _____ Cleaning Batch #: <u>H2-1359</u>
	Collection Date: _____ Date Can. Cleaned: <u>4/18/22</u>
	Options:
	SNMOC (Y/N): _____ Duplicate Event (Y/N): _____
	TOXICS (Y/N): <u>rtg</u> Duplicate Can #: _____
	METHANE (Y/N): _____
Relinquished by: <u>RWB</u> Date: <u>4/20/22</u>	
Field Setup	Received by: <u>Tyler R. Fewell</u> Date: <u>4-21-22 at 0538 EST TF</u>
	Operator: <u>Tyler Fewell</u> MFC Setting: <u>N/A</u>
	System #: <u>PR-53 PR-36</u> Elapsed Timer Reset (Y/N): <u>N</u>
	Setup Date: <u>4-25-2022 at 0538 EST</u> Canister Valve Opened (Y/N): <u>Y</u>
	Field Initial Can. Press.: <u>29.0</u> psig psia <u>(Hg)</u> (Circle one)
Field Recovery	Recovery Date: <u>4-26-2022 at 0538 EST</u> Sample Duration (3 or 24 hr): <u>24</u>
	Operator: <u>Tyler Fewell</u> Elapsed Time: <u>24:00</u>
	Field Final Can. Press.: <u>7</u> psig psia <u>(Hg)</u> (Circle one)
	Status: <u>VALID</u> VOID (Circle one) Canister Valve Closed (Y/N): <u>Y</u>
	Relinquished by: <u>Tyler R. Fewell</u> Date: <u>4-26-2022</u>
Lab Recovery	Received by: <u>GLK</u> Date: <u>4/29/22</u>
	Lab Final Can. Press.: <u>7.5</u> psig <u>(Hg)</u> (Circle one)
	Status: <u>VALID</u> VOID (Circle one) Gauge: <u>1</u> <u>3</u> (Circle one)
	If void, why: _____

Samples stored in Air Tox Lab (Room 130)

Comments: Leak Check at ^{TF} 0509 EST = 29.5 in Hg, Leak at 0514 EST = 29.0 in Hg
Weather at Setup = 55°F, Weather at pickup = 56.0°F
PR-53 Regulator Failed. Replaced with PR-36
Turned on at 0518 EST



ERG		ERG LIMS ID # 2042901-10	
931 Keystone Park Drive, Suite 700, Morrisville, NC 27560			
AIR TOXICS SAMPLE CHAIN OF CUSTODY			
Lab Pre-Sampling	Site Code: #13 Institute, WV Trip blank	Canister Number: 41574	
	City/State: _____	Lab Initial Can. Press. ("Hg): 30.0	
	AQS Code: _____	Cleaning Batch #: 42-1351	
	Collection Date: _____	Date Can. Cleaned: 4/18/22	
Field Setup	Options: SNMOC (Y/N): _____ TOXICS (Y/N): Alex METHANE (Y/N): _____ Relinquished by: RMB	Duplicate Event (Y/N): _____ Duplicate Can #: _____ Date: 4/26/22	
	Received by: 4- Tyler Fewell	Date: 4-21-22 at 1019 EST	
	Operator: Tyler Fewell	MFC Setting: N/A	
	System #: N/A	Elapsed Timer Reset (Y/N): N	
Field Recovery	Setup Date: 4-25-2022 at 1019 EST	Canister Valve Opened (Y/N): N	
	Field Initial Can. Press.: N/A	psig psia "Hg (Circle one)	
	Recovery Date: 4-26-2022 at 1120 EST	Sample Duration (3 or 24 hr): N/A	
	Operator: Tyler Fewell	Elapsed Time: N/A	
Lab Recovery	Field Final Can. Press.: N/A	psig psia "Hg (Circle one)	
	Status: VALID VOID (Circle one)	Canister Valve Closed (Y/N): Y	
	Relinquished by: Tyler Fewell	Date: 4-28-2022	
	Received by: G/K	Date: 4/29/22	
Lab Recovery	Lab Final Can. Press.: 30	psig (Hg) (Circle one)	
	Status: VALID VOID (Circle one)	Gauge: 1 (3) (Circle one)	
	If void, why: _____		
	Samples stored in Air Tox Lab (Room 130)		

Comments: TF 4-25-2022
Date: 4-25-2022
Weather at setup: 29.4°C, 746.8 mmHg, sunny, light wind
Regulator S/N 15599 Failed, replaced with 15589
Used as Trip blank.
Weather at pick up: 14.9°C, 750.8 mmHg, cloudy, light wind



Appendix C Analytical Results

First Sampling Period: January 25-26, 2022



Eastern Research Group
601 Keystone Park Drive
Suite 700
Morrisville, NC 27560

February 07, 2022

Ms. Renu Chakrabarty
WV Department of Environmental Protection
601 57th Street, SE
Charleston, WV 25304
Project Name: WV EtO

Dear Ms. Renu Chakrabarty,

This report contains the analytical results for the sample(s) received under chain(s) of custody by Eastern Research Group on 01/28/22 10:55.

Values below the MDL for QC results in this report are recorded as ND, however the actual values are reported in the accompanying Excel report with a "U" flag (Under the detection limit). The actual values are reported in AQS.

This test is accredited under the 2016 TNI Standard for Environmental Laboratories (FL DOH Certification # E87673). All analyses were performed as described in the US EPA-approved QAPP, under the contract for UATMP, NATTS, CSATAM, PAMS and NMOC support (US EPA Contract No. EP-D-14-030). This cover page is an integral part of this report, and any exceptions or comments are noted on the last page.

Release of the data contained in this data package and in the data submitted in the electronic data deliverable, has been authorized by the Program Manager, or the Program Manager's designee as verified by the following signature.

The issuance of the final Certificate of Analysis takes precedence over any previous Report. If you have any questions, please contact me at 919-468-7924.

Sincerely,

Julie Swift
Program Manager
julie.swift@erg.com

The information contained in this report and its attachment(s) are intended only for the use of the individual to whom it is addressed and may contain information that is privileged, confidential, or exempt from disclosure. If the reader of this message is not the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this report is strictly prohibited. If you have received this report in error, please notify julie.swift@erg.com and delete the report without retaining any copies.



CERTIFICATE OF ANALYSIS

U.S. Environmental Protection Agency, Region 3

601 57th Street, SE

Charleston, WV 25304

ATTN: Ms. Renu Chakrabarty

PHONE: (303) 414-1249 **FAX:**

FILE #: 0344.00

REPORTED: 02/07/22 14:24

SUBMITTED: 01/28/22

AQS SITE CODE:

SITE CODE: WV EtO

ANALYTICAL REPORT FOR SAMPLES

<u>SampleName</u>	<u>LabNumber</u>	<u>Matrix</u>	<u>Sampled</u>	<u>Received</u>
Guthrie WV Background Site	2012807-01	Air	01/25/22 23:59	01/28/22 10:55
#0 South Charleston, WV	2012807-02	Air	01/25/22 23:59	01/28/22 10:55
#3 North Charleston, WV	2012807-03	Air	01/25/22 23:59	01/28/22 10:55
#4 North Charleston, WV	2012807-04	Air	01/25/22 23:59	01/28/22 10:55
#10 Institute, WV	2012807-05	Air	01/25/22 23:59	01/28/22 10:55
#13 Institute, WV	2012807-06	Air	01/25/22 23:59	01/28/22 10:55
#14 Institute, WV	2012807-07	Air	01/25/22 23:59	01/28/22 10:55
#15 Institute, WV	2012807-08	Air	01/25/22 23:59	01/28/22 10:55

Eastern Research Group

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CERTIFICATE OF ANALYSIS

U.S. Environmental Protection Agency, Region 3

601 57th Street, SE

Charleston, WV 25304

ATTN: Ms. Renu Chakrabarty

PHONE: (303) 414-1249 FAX:

FILE #: 0344.00

REPORTED: 02/07/22 14:24

SUBMITTED: 01/28/22

AQS SITE CODE:

SITE CODE: WV EtO

Description: Guthrie WV Background Site

Lab ID: 2012807-01

Sampled: 01/25/22 23:59

Pressure @ Receipt: 2.50 "Hg

Canister #: 33531

Received: 01/28/22 10:55

Comments:

Analyzed: 01/31/22 20:35

Air Toxics by EPA Compendium Method TO-15

Analyte	Results		Flag	MDL
	ppbv	ug/m ³		ppbv
Ethylene oxide	0.0361	0.07		0.0261





CERTIFICATE OF ANALYSIS

U.S. Environmental Protection Agency, Region 3
601 57th Street, SE
Charleston, WV 25304

ATTN: Ms. Renu Chakrabarty

PHONE: (303) 414-1249 FAX:

FILE #: 0344.00

REPORTED: 02/07/22 14:24

SUBMITTED: 01/28/22

AQS SITE CODE:

SITE CODE: WV EtO

Description: #0 South Charleston, WV

Lab ID: 2012807-02

Sampled: 01/25/22 23:59

Pressure @ Receipt: 0.25 psig

Canister #: 19648

Received: 01/28/22 10:55

Comments: Regulator S/N-15594

Analyzed: 01/31/22 21:37

Air Toxics by EPA Compendium Method TO-15

<u>Analyte</u>	<u>Results</u>		<u>Flag</u>	<u>MDL</u>
	<u>ppbv</u>	<u>ug/m³</u>		<u>ppbv</u>
Ethylene oxide	ND	ND	U	0.0261

Eastern Research Group

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CERTIFICATE OF ANALYSIS

U.S. Environmental Protection Agency, Region 3
601 57th Street, SE
Charleston, WV 25304

ATTN: Ms. Renu Chakrabarty

PHONE: (303) 414-1249 FAX:

FILE #: 0344.00

REPORTED: 02/07/22 14:24

SUBMITTED: 01/28/22

AQS SITE CODE:

SITE CODE: WV EtO

Description: #3 North Charleston, WV

Lab ID: 2012807-03

Sampled: 01/25/22 23:59

Pressure @ Receipt: 0.6 psig

Canister #: 18875

Received: 01/28/22 10:55

Comments: Regulator S/N-15585

Analyzed: 01/31/22 22:38

Air Toxics by EPA Compendium Method TO-15

<u>Analyte</u>	<u>Results</u>		<u>Flag</u>	<u>MDL</u>
	<u>ppbv</u>	<u>ug/m³</u>		<u>ppbv</u>
Ethylene oxide	0.0165	0.03	U	0.0261

Eastern Research Group

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601 57th Street, SE

Charleston, WV 25304

ATTN: Ms. Renu Chakrabarty

PHONE: (303) 414-1249 FAX:

FILE #: 0344.00

REPORTED: 02/07/22 14:24

SUBMITTED: 01/28/22

AQS SITE CODE:

SITE CODE: WV EtO

Description: #4 North Charleston, WV

Lab ID: 2012807-04

Sampled: 01/25/22 23:59

Pressure @ Receipt: 0.6 psig

Canister #: 19280

Received: 01/28/22 10:55

Comments: Regulator S/N-15584

Analyzed: 01/31/22 23:39

Air Toxics by EPA Compendium Method TO-15

<u>Analyte</u>	<u>Results</u>		<u>Flag</u>	<u>MDL</u>
	<u>ppbv</u>	<u>ug/m³</u>		<u>ppbv</u>
Ethylene oxide	0.0121	0.02	U	0.0261

Eastern Research Group

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U.S. Environmental Protection Agency, Region 3
601 57th Street, SE
Charleston, WV 25304

ATTN: Ms. Renu Chakrabarty

PHONE: (303) 414-1249 **FAX:**

FILE #: 0344.00

REPORTED: 02/07/22 14:24

SUBMITTED: 01/28/22

AQS SITE CODE:

SITE CODE: WV EtO

Description: #10 Institute, WV

Lab ID: 2012807-05

Sampled: 01/25/22 23:59

Pressure @ Receipt: 0.45 psig

Canister #: 40457

Received: 01/28/22 10:55

Comments: Regulator S/N-15589

Analyzed: 02/01/22 00:41

Air Toxics by EPA Compendium Method TO-15

<u>Analyte</u>	<u>Results</u>		<u>Flag</u>	<u>MDL</u>
	<u>ppbv</u>	<u>ug/m³</u>		<u>ppbv</u>
Ethylene oxide	0.0821	0.15		0.0261

Eastern Research Group

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U.S. Environmental Protection Agency, Region 3

601 57th Street, SE

Charleston, WV 25304

ATTN: Ms. Renu Chakrabarty

PHONE: (303) 414-1249 FAX:

FILE #: 0344.00

REPORTED: 02/07/22 14:24

SUBMITTED: 01/28/22

AQS SITE CODE:

SITE CODE: WV EtO

Description: #13 Institute, WV

Lab ID: 2012807-06

Sampled: 01/25/22 23:59

Pressure @ Receipt: 0.5 psig

Canister #: 19656

Received: 01/28/22 10:55

Comments: Regulator S/N-15586

Analyzed: 02/01/22 02:44

Air Toxics by EPA Compendium Method TO-15

Analyte	Results		Flag	MDL
	ppbv	ug/m ³		ppbv
Ethylene oxide	0.0375	0.07		0.0261

Eastern Research Group

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CERTIFICATE OF ANALYSIS

U.S. Environmental Protection Agency, Region 3
601 57th Street, SE
Charleston, WV 25304

ATTN: Ms. Renu Chakrabarty

PHONE: (303) 414-1249 FAX:

FILE #: 0344.00

REPORTED: 02/07/22 14:24

SUBMITTED: 01/28/22

AQS SITE CODE:

SITE CODE: WV EtO

Description: #14 Institute, WV

Lab ID: 2012807-07

Sampled: 01/25/22 23:59

Pressure @ Receipt: 0.5 psig

Canister #: 40451

Received: 01/28/22 10:55

Comments: Regulator S/N-15597

Analyzed: 02/01/22 03:45

Air Toxics by EPA Compendium Method TO-15

Analyte	Results		Flag	MDL
	ppbv	ug/m ³		ppbv
Ethylene oxide	0.0376	0.07		0.0261

Eastern Research Group

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U.S. Environmental Protection Agency, Region 3

601 57th Street, SE

Charleston, WV 25304

ATTN: Ms. Renu Chakrabarty

PHONE: (303) 414-1249 FAX:

FILE #: 0344.00

REPORTED: 02/07/22 14:24

SUBMITTED: 01/28/22

AQS SITE CODE:

SITE CODE: WV EtO

Description: #15 Institute, WV

Lab ID: 2012807-08

Sampled: 01/25/22 23:59

Pressure @ Receipt: 0.85 psig

Canister #: 39938

Received: 01/28/22 10:55

Comments: Regulator S/N-15590

Analyzed: 02/01/22 04:46

Air Toxics by EPA Compendium Method TO-15

<u>Analyte</u>	<u>Results</u>		<u>Flag</u>	<u>MDL</u>
	<u>ppbv</u>	<u>ug/m³</u>		<u>ppbv</u>
Ethylene oxide	0.0505	0.09		0.0261

Eastern Research Group

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U.S. Environmental Protection Agency, Region 3

601 57th Street, SE

Charleston, WV 25304

ATTN: Ms. Renu Chakrabarty

PHONE: (303) 414-1249 FAX:

FILE #: 0344.00

REPORTED: 02/07/22 14:24

SUBMITTED: 01/28/22

AQS SITE CODE:

SITE CODE: WV EtO

Analyte	Result	Units	Source Result	RPD	RPD Limit	Notes
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Air Toxics by EPA Compendium Method TO-15 - Quality Control

Batch B2A3110 - Summa Canister Prep

Blank (B2A3110-BLK1)

Prepared & Analyzed: 01/31/22

Ethylene oxide

ND

ppbv

U

Duplicate (B2A3110-DUP3)

Source: 2012807-05

Prepared: 01/25/22 Analyzed: 02/01/22

Ethylene oxide

0.0797

ppbv

0.08

2.97

25

Eastern Research Group

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CERTIFICATE OF ANALYSIS

U.S. Environmental Protection Agency, Region 3

601 57th Street, SE

Charleston, WV 25304

ATTN: Ms. Renu Chakrabarty

PHONE: (303) 414-1249 **FAX:**

FILE #: 0344.00

REPORTED: 02/07/22 14:24

SUBMITTED: 01/28/22

AQS SITE CODE:

SITE CODE: WV EtO

Analyte	Result	Units	% Difference	Limit (%)	Notes
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Air Toxics by EPA Compendium Method TO-15 - Quality Control

Sequence 2201069

Calibration Check (2201069-CCV1)

Prepared & Analyzed: 01/31/22

Ethylene oxide	2.55	ppbv	5.6	30.00	
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Eastern Research Group

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CERTIFICATE OF ANALYSIS

U.S. Environmental Protection Agency, Region 3

601 57th Street, SE

Charleston, WV 25304

ATTN: Ms. Renu Chakrabarty

PHONE: (303) 414-1249 **FAX:**

FILE #: 0344.00

REPORTED: 02/07/22 14:24

SUBMITTED: 01/28/22

AQS SITE CODE:

SITE CODE: WV EtO

Notes and Definitions

U	Under Detection Limit
ND	Analyte NOT DETECTED
NR	Not Reported
MDL	Method Detection Limit
RPD	Relative Percent Difference

Note: This test is accredited under the 2016 TNI Standard; however the following analytes are not accredited: acetylene, bromodichloroethane, dichlorotetrafluoromethane, ethyl tert butyl ether, n-octane, tert amyl methyl ether, trichlorofluoroethane, and bromochloromethane.

Eastern Research Group

The results in this report apply only to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Second Sampling Period: February 15-16, 2022



Eastern Research Group
601 Keystone Park Drive
Suite 700
Morrisville, NC 27560

March 22, 2022

Ms. Renu Chakrabarty
WV Department of Environmental Protection
601 57th Street, SE
Charleston, WV 25304
Project Name: WV EtO

Dear Ms. Renu Chakrabarty,

This report contains the analytical results for the sample(s) received under chain(s) of custody by Eastern Research Group on 02/18/22 11:39.

Values below the MDL for QC results in this report are recorded as ND, however the actual values are reported in the accompanying Excel report with a "U" flag (Under the detection limit). The actual values are reported in AQS.

This test is accredited under the 2016 TNI Standard for Environmental Laboratories (FL DOH Certification # E87673). All analyses were performed as described in the US EPA-approved QAPP, under the contract for UATMP, NATTS, CSATAM, PAMS and NMOC support (US EPA Contract No. EP-D-14-030). This cover page is an integral part of this report, and any exceptions or comments are noted on the last page.

Release of the data contained in this data package and in the data submitted in the electronic data deliverable, has been authorized by the Program Manager, or the Program Manager's designee as verified by the following signature.

The issuance of the final Certificate of Analysis takes precedence over any previous Report. If you have any questions, please contact me at 919-468-7924.

Sincerely,

Julie Swift
Program Manager
julie.swift@erg.com

The information contained in this report and its attachment(s) are intended only for the use of the individual to whom it is addressed and may contain information that is privileged, confidential, or exempt from disclosure. If the reader of this message is not the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this report is strictly prohibited. If you have received this report in error, please notify julie.swift@erg.com and delete the report without retaining any copies.



CERTIFICATE OF ANALYSIS

U.S. Environmental Protection Agency, Region 3
601 57th Street, SE
Charleston, WV 25304
ATTN: Ms. Renu Chakrabarty
PHONE: (303) 414-1249 **FAX:**

FILE #: 0344.00
REPORTED: 03/22/22 11:51
SUBMITTED: 02/18/22
AQS SITE CODE:
SITE CODE: WV EtO

ANALYTICAL REPORT FOR SAMPLES

<u>SampleName</u>	<u>LabNumber</u>	<u>Matrix</u>	<u>Sampled</u>	<u>Received</u>
Guthrie Background Site	2021802-01	Air	02/16/22 12:06	02/18/22 11:39
#15 Institute, WV	2021802-02	Air	02/16/22 12:11	02/18/22 11:39
#13 Institute, WV	2021802-03	Air	02/16/22 11:14	02/18/22 11:39
#14 Institute, WV	2021802-04	Air	02/16/22 10:31	02/18/22 11:39
#3 North Charleston, WV	2021802-05	Air	02/16/22 13:03	02/18/22 11:39
#4 North Charleston, WV	2021802-06	Air	02/16/22 12:42	02/18/22 11:39
#10 Institute, WV	2021802-07	Air	02/16/22 11:36	02/18/22 11:39

Eastern Research Group

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CERTIFICATE OF ANALYSIS

U.S. Environmental Protection Agency, Region 3

601 57th Street, SE

Charleston, WV 25304

ATTN: Ms. Renu Chakrabarty

PHONE: (303) 414-1249 **FAX:**

FILE #: 0344.00

REPORTED: 03/22/22 11:51

SUBMITTED: 02/18/22

AQS SITE CODE:

SITE CODE: WV EtO

Description: Guthrie Background Site

Lab ID: 2021802-01

Sampled: 02/16/22 12:06

Pressure @ Receipt: 4.5 "Hg

Canister #: 41635

Received: 02/18/22 11:39

Comments: PR-58

Analyzed: 03/08/22 20:10

Air Toxics by EPA Compendium Method TO-15

<u>Analyte</u>	<u>Results</u>		<u>Flag</u>	<u>MDL</u>
	<u>ppbv</u>	<u>ug/m³</u>		<u>ppbv</u>
Ethylene oxide	0.0884	0.16		0.0261

Eastern Research Group

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CERTIFICATE OF ANALYSIS

U.S. Environmental Protection Agency, Region 3

601 57th Street, SE

Charleston, WV 25304

ATTN: Ms. Renu Chakrabarty

PHONE: (303) 414-1249 FAX:

FILE #: 0344.00

REPORTED: 03/22/22 11:51

SUBMITTED: 02/18/22

AQS SITE CODE:

SITE CODE: WV EtO

Description: #15 Institute, WV

Lab ID: 2021802-02

Sampled: 02/16/22 12:11

Pressure @ Receipt: 0.30 "Hg

Canister #: 41558

Received: 02/18/22 11:39

Comments: PR-87

Analyzed: 03/09/22 09:30

Air Toxics by EPA Compendium Method TO-15

<u>Analyte</u>	<u>Results</u>		<u>Flag</u>	<u>MDL</u>
	<u>ppbv</u>	<u>ug/m³</u>		<u>ppbv</u>
Ethylene oxide	1.30	2.35		0.0261

Eastern Research Group

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CERTIFICATE OF ANALYSIS

U.S. Environmental Protection Agency, Region 3
601 57th Street, SE
Charleston, WV 25304
ATTN: Ms. Renu Chakrabarty
PHONE: (303) 414-1249 **FAX:**

FILE #: 0344.00
REPORTED: 03/22/22 11:51
SUBMITTED: 02/18/22
AQS SITE CODE:
SITE CODE: WV EtO

Description: #13 Institute, WV	Lab ID: 2021802-03	Sampled: 02/16/22 11:14
Pressure @ Receipt: 0.10 "Hg	Canister #: 41632	Received: 02/18/22 11:39
Comments: PR-85		Analyzed: 03/09/22 10:30

Air Toxics by EPA Compendium Method TO-15

<u>Analyte</u>	<u>Results</u>		<u>Flag</u>	<u>MDL</u>
	<u>ppbv</u>	<u>ug/m³</u>		<u>ppbv</u>
Ethylene oxide	0.204	0.37		0.0261

Eastern Research Group

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CERTIFICATE OF ANALYSIS

U.S. Environmental Protection Agency, Region 3

601 57th Street, SE

Charleston, WV 25304

ATTN: Ms. Renu Chakrabarty

PHONE: (303) 414-1249 FAX:

FILE #: 0344.00

REPORTED: 03/22/22 11:51

SUBMITTED: 02/18/22

AQS SITE CODE:

SITE CODE: WV EtO

Description: #14 Institute, WV

Lab ID: 2021802-04

Sampled: 02/16/22 10:31

Pressure @ Receipt: 0.50 "Hg

Canister #: 41556

Received: 02/18/22 11:39

Comments: PR-75

Analyzed: 03/09/22 11:31

Air Toxics by EPA Compendium Method TO-15

<u>Analyte</u>	<u>Results</u>		<u>Flag</u>	<u>MDL</u>
	<u>ppbv</u>	<u>ug/m³</u>		<u>ppbv</u>
Ethylene oxide	0.0958	0.17		0.0261

Eastern Research Group

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CERTIFICATE OF ANALYSIS

U.S. Environmental Protection Agency, Region 3

601 57th Street, SE

Charleston, WV 25304

ATTN: Ms. Renu Chakrabarty

PHONE: (303) 414-1249 FAX:

FILE #: 0344.00

REPORTED: 03/22/22 11:51

SUBMITTED: 02/18/22

AQS SITE CODE:

SITE CODE: WV EtO

Description: #3 North Charleston, WV

Lab ID: 2021802-05

Sampled: 02/16/22 13:03

Pressure @ Receipt: 0.30 "Hg

Canister #: 18831

Received: 02/18/22 11:39

Comments: PR-79

Analyzed: 03/09/22 12:32

Air Toxics by EPA Compendium Method TO-15

Analyte	Results		Flag	MDL
	ppbv	ug/m ³		ppbv
Ethylene oxide	0.0227	0.04	U	0.0261

Eastern Research Group

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U.S. Environmental Protection Agency, Region 3

601 57th Street, SE

Charleston, WV 25304

ATTN: Ms. Renu Chakrabarty

PHONE: (303) 414-1249 FAX:

FILE #: 0344.00

REPORTED: 03/22/22 11:51

SUBMITTED: 02/18/22

AQS SITE CODE:

SITE CODE: WV EtO

Description: #4 North Charleston, WV

Lab ID: 2021802-06

Sampled: 02/16/22 12:42

Pressure @ Receipt: 0.6 "Hg

Canister #: 41569

Received: 02/18/22 11:39

Comments: PR-86

Analyzed: 03/09/22 13:33

Air Toxics by EPA Compendium Method TO-15

<u>Analyte</u>	<u>Results</u>		<u>Flag</u>	<u>MDL</u>
	<u>ppbv</u>	<u>ug/m³</u>		<u>ppbv</u>
Ethylene oxide	0.0880	0.16		0.0261

Eastern Research Group

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CERTIFICATE OF ANALYSIS

U.S. Environmental Protection Agency, Region 3

601 57th Street, SE

Charleston, WV 25304

ATTN: Ms. Renu Chakrabarty

PHONE: (303) 414-1249 FAX:

FILE #: 0344.00

REPORTED: 03/22/22 11:51

SUBMITTED: 02/18/22

AQS SITE CODE:

SITE CODE: WV EtO

Description: #10 Institute, WV

Lab ID: 2021802-07

Sampled: 02/16/22 11:36

Pressure @ Receipt: 0.10 "Hg

Canister #: 41665

Received: 02/18/22 11:39

Comments: PR-91

Analyzed: 03/09/22 14:34

Air Toxics by EPA Compendium Method TO-15

Analyte	Results		Flag	MDL
	ppbv	ug/m ³		ppbv
Ethylene oxide	0.0996	0.18		0.0261

Eastern Research Group

The results in this report apply only to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



CERTIFICATE OF ANALYSIS

U.S. Environmental Protection Agency, Region 3
601 57th Street, SE
Charleston, WV 25304
ATTN: Ms. Renu Chakrabarty
PHONE: (303) 414-1249 **FAX:**

FILE #: 0344.00
REPORTED: 03/22/22 11:51
SUBMITTED: 02/18/22
AQS SITE CODE:
SITE CODE: WV EtO

Analyte	Result	Units	Source Result	RPD	RPD Limit	Notes
Air Toxics by EPA Compendium Method TO-15 - Quality Control						
<i>Batch B2C0807 - Summa Canister Prep</i>						
Blank (B2C0807-BLK1)						
Ethylene oxide	ND	ppbv				U
Blank (B2C0807-BLK2)						
Ethylene oxide	ND	ppbv				U
Duplicate (B2C0807-DUP1)						
	Source: 2021802-01					
Ethylene oxide	0.0790	ppbv	0.09	11.2	25	

Eastern Research Group

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U.S. Environmental Protection Agency, Region 3

601 57th Street, SE

Charleston, WV 25304

ATTN: Ms. Renu Chakrabarty

PHONE: (303) 414-1249 **FAX:**

FILE #: 0344.00

REPORTED: 03/22/22 11:51

SUBMITTED: 02/18/22

AQS SITE CODE:

SITE CODE: WV EtO

Analyte	Result	Units	% Difference	Limit (%)	Notes
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Air Toxics by EPA Compendium Method TO-15 - Quality Control

Sequence 2203030

Calibration Check (2203030-CCV1)

Prepared & Analyzed: 03/08/22

Ethylene oxide	2.43	ppbv	-3.0	30.00
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Calibration Check (2203030-CCV2)

Prepared: 03/08/22 Analyzed: 03/09/22

Ethylene oxide	2.60	ppbv	3.8	30.00
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Eastern Research Group

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CERTIFICATE OF ANALYSIS

U.S. Environmental Protection Agency, Region 3

601 57th Street, SE

Charleston, WV 25304

ATTN: Ms. Renu Chakrabarty

PHONE: (303) 414-1249 **FAX:**

FILE #: 0344.00

REPORTED: 03/22/22 11:51

SUBMITTED: 02/18/22

AQS SITE CODE:

SITE CODE: WV EtO

Notes and Definitions

U	Under Detection Limit
ND	Analyte NOT DETECTED
NR	Not Reported
MDL	Method Detection Limit
RPD	Relative Percent Difference

Note: This test is accredited under the 2016 TNI Standard; however the following analytes are not accredited: acetylene, bromodichloroethane, dichlorotetrafluoromethane, ethyl tert butyl ether, n-octane, tert amyl methyl ether, trichlorofluoroethane, and bromochloromethane.

Eastern Research Group

The results in this report apply only to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Third Sampling Period: March 23-24, 2022



Eastern Research Group
601 Keystone Park Drive
Suite 700
Morrisville, NC 27560

May 11, 2022

Ms. Renu Chakrabarty
WV Department of Environmental Protection
601 57th Street, SE
Charleston, WV 25304
Project Name: WV EtO

Dear Ms. Renu Chakrabarty,

This report contains the analytical results for the sample(s) received under chain(s) of custody by Eastern Research Group on 03/29/22 11:24.

Values below the MDL for QC results in this report are recorded as ND, however the actual values are reported in the accompanying Excel report with a "U" flag (Under the detection limit). The actual values are reported in AQS.

This test is accredited under the 2016 TNI Standard for Environmental Laboratories (FL DOH Certification # E87673). All analyses were performed as described in the US EPA-approved QAPP, under the contract for UATMP, NATTS, CSATAM, PAMS and NMOC support (US EPA Contract No. EP-D-14-030). This cover page is an integral part of this report, and any exceptions or comments are noted on the last page.

Release of the data contained in this data package and in the data submitted in the electronic data deliverable, has been authorized by the Program Manager, or the Program Manager's designee as verified by the following signature.

The issuance of the final Certificate of Analysis takes precedence over any previous Report. If you have any questions, please contact me at 919-468-7924.

Sincerely,

Julie Swift
Program Manager
julie.swift@erg.com

The information contained in this report and its attachment(s) are intended only for the use of the individual to whom it is addressed and may contain information that is privileged, confidential, or exempt from disclosure. If the reader of this message is not the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this report is strictly prohibited. If you have received this report in error, please notify julie.swift@erg.com and delete the report without retaining any copies.



CERTIFICATE OF ANALYSIS

U.S. Environmental Protection Agency, Region 3

601 57th Street, SE

Charleston, WV 25304

ATTN: Ms. Renu Chakrabarty

PHONE: (303) 414-1249 **FAX:**

FILE #: 0344.00

REPORTED: 05/11/22 14:59

SUBMITTED: 03/29/22

AQS SITE CODE:

SITE CODE: WV EtO

ANALYTICAL REPORT FOR SAMPLES

<u>SampleName</u>	<u>LabNumber</u>	<u>Matrix</u>	<u>Sampled</u>	<u>Received</u>
#15 Institute, WV	2032918-01	Air	03/23/22 11:13	03/29/22 11:24
#13 Institute, WV C2	2032918-03	Air	03/23/22 09:47	03/29/22 11:24
#3 North Charleston, WV	2032918-04	Air	03/23/22 12:09	03/29/22 11:24
#0 South Charleston, WV	2032918-05	Air	03/23/22 12:35	03/29/22 11:24
#4 North Charleston, WV	2032918-06	Air	03/23/22 11:43	03/29/22 11:24
#10 Institute, WV	2032918-07	Air	03/23/22 10:13	03/29/22 11:24
#14 Institute, WV	2032918-08	Air	03/23/22 10:46	03/29/22 11:24
WV Eto	2032918-09	Air	03/24/22 01:55	03/29/22 11:24

Eastern Research Group

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CERTIFICATE OF ANALYSIS

U.S. Environmental Protection Agency, Region 3

601 57th Street, SE

Charleston, WV 25304

ATTN: Ms. Renu Chakrabarty

PHONE: (303) 414-1249 FAX:

FILE #: 0344.00

REPORTED: 05/11/22 14:59

SUBMITTED: 03/29/22

AQS SITE CODE:

SITE CODE: WV EtO

Description: #15 Institute, WV

Lab ID: 2032918-01

Sampled: 03/23/22 11:13

Pressure @ Receipt: 3.00 "Hg

Canister #: 41614

Received: 03/29/22 11:24

Comments: PR-79

Analyzed: 04/14/22 08:08

Air Toxics by EPA Compendium Method TO-15

Analyte	Results		Flag	MDL
	ppbv	ug/m ³		ppbv
Ethylene oxide	0.447	0.81		0.0261

Eastern Research Group

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U.S. Environmental Protection Agency, Region 3

601 57th Street, SE

Charleston, WV 25304

ATTN: Ms. Renu Chakrabarty

PHONE: (303) 414-1249 FAX:

FILE #: 0344.00

REPORTED: 05/11/22 14:59

SUBMITTED: 03/29/22

AQS SITE CODE:

SITE CODE: WV EtO

Description: #13 Institute, WV C2

Lab ID: 2032918-03

Sampled: 03/23/22 09:47

Pressure @ Receipt: 7.50 "Hg

Canister #: 18876

Received: 03/29/22 11:24

Comments: PR-41, Col 2

Analyzed: 04/15/22 16:07

Air Toxics by EPA Compendium Method TO-15

Analyte	Results		Flag	MDL
	ppbv	ug/m ³		ppbv
Ethylene oxide	0.0714	0.13		0.0261

Eastern Research Group

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CERTIFICATE OF ANALYSIS

U.S. Environmental Protection Agency, Region 3

601 57th Street, SE

Charleston, WV 25304

ATTN: Ms. Renu Chakrabarty

PHONE: (303) 414-1249 FAX:

FILE #: 0344.00

REPORTED: 05/11/22 14:59

SUBMITTED: 03/29/22

AQS SITE CODE:

SITE CODE: WV EtO

Description: #3 North Charleston, WV

Lab ID: 2032918-04

Sampled: 03/23/22 12:09

Pressure @ Receipt: 3.00 "Hg

Canister #: 33506

Received: 03/29/22 11:24

Comments: PR-87

Analyzed: 04/14/22 09:09

Air Toxics by EPA Compendium Method TO-15

Analyte	Results		Flag	MDL
	ppbv	ug/m ³		ppbv
Ethylene oxide	0.155	0.28		0.0261

Eastern Research Group

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CERTIFICATE OF ANALYSIS

U.S. Environmental Protection Agency, Region 3

601 57th Street, SE

Charleston, WV 25304

ATTN: Ms. Renu Chakrabarty

PHONE: (303) 414-1249 FAX:

FILE #: 0344.00

REPORTED: 05/11/22 14:59

SUBMITTED: 03/29/22

AQS SITE CODE:

SITE CODE: WV EtO

Description: #0 South Charleston, WV

Lab ID: 2032918-05

Sampled: 03/23/22 12:35

Pressure @ Receipt: 7.00 "Hg

Canister #: 19296

Received: 03/29/22 11:24

Comments: PR-77

Analyzed: 04/15/22 18:10

Air Toxics by EPA Compendium Method TO-15

Analyte	Results		Flag	MDL
	ppbv	ug/m ³		ppbv
Ethylene oxide	0.0800	0.14		0.0261

Eastern Research Group

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U.S. Environmental Protection Agency, Region 3

601 57th Street, SE

Charleston, WV 25304

ATTN: Ms. Renu Chakrabarty

PHONE: (303) 414-1249 FAX:

FILE #: 0344.00

REPORTED: 05/11/22 14:59

SUBMITTED: 03/29/22

AQS SITE CODE:

SITE CODE: WV EtO

Description: #4 North Charleston, WV

Lab ID: 2032918-06

Sampled: 03/23/22 11:43

Pressure @ Receipt: 3.00 "Hg

Canister #: 18879

Received: 03/29/22 11:24

Comments: PR-85

Analyzed: 04/15/22 19:11

Air Toxics by EPA Compendium Method TO-15

Analyte	Results		Flag	MDL
	ppbv	ug/m ³		ppbv
Ethylene oxide	0.0794	0.14		0.0261

Eastern Research Group

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CERTIFICATE OF ANALYSIS

U.S. Environmental Protection Agency, Region 3

601 57th Street, SE

Charleston, WV 25304

ATTN: Ms. Renu Chakrabarty

PHONE: (303) 414-1249 FAX:

FILE #: 0344.00

REPORTED: 05/11/22 14:59

SUBMITTED: 03/29/22

AQS SITE CODE:

SITE CODE: WV EtO

Description: #10 Institute, WV

Lab ID: 2032918-07

Sampled: 03/23/22 10:13

Pressure @ Receipt: 2.50 "Hg

Canister #: 19661

Received: 03/29/22 11:24

Comments: PR-91

Analyzed: 04/15/22 20:12

Air Toxics by EPA Compendium Method TO-15

Analyte	Results		Flag	MDL
	ppbv	ug/m ³		ppbv
Ethylene oxide	0.182	0.33		0.0261

Eastern Research Group

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U.S. Environmental Protection Agency, Region 3

601 57th Street, SE

Charleston, WV 25304

ATTN: Ms. Renu Chakrabarty

PHONE: (303) 414-1249 FAX:

FILE #: 0344.00

REPORTED: 05/11/22 14:59

SUBMITTED: 03/29/22

AQS SITE CODE:

SITE CODE: WV EtO

Description: #14 Institute, WV

Lab ID: 2032918-08

Sampled: 03/23/22 10:46

Pressure @ Receipt: 3.50 "Hg

Canister #: 18878

Received: 03/29/22 11:24

Comments: PR-75

Analyzed: 04/15/22 21:13

Air Toxics by EPA Compendium Method TO-15

Analyte	Results		Flag	MDL
	ppbv	ug/m ³		ppbv
Ethylene oxide	0.119	0.22		0.0261

Eastern Research Group

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U.S. Environmental Protection Agency, Region 3

601 57th Street, SE

Charleston, WV 25304

ATTN: Ms. Renu Chakrabarty

PHONE: (303) 414-1249 FAX:

FILE #: 0344.00

REPORTED: 05/11/22 14:59

SUBMITTED: 03/29/22

AQS SITE CODE:

SITE CODE: WV EtO

Description: WV EtO

Lab ID: 2032918-09

Sampled: 03/24/22 01:55

Pressure @ Receipt: 2.50 "Hg

Canister #: 19300

Received: 03/29/22 11:24

Comments: Regulator SN 15586

Analyzed: 04/15/22 22:14

Air Toxics by EPA Compendium Method TO-15

Analyte	Results		Flag	MDL
	ppbv	ug/m ³		ppbv
Ethylene oxide	0.0321	0.06		0.0261

Eastern Research Group

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CERTIFICATE OF ANALYSIS

U.S. Environmental Protection Agency, Region 3

601 57th Street, SE

Charleston, WV 25304

ATTN: Ms. Renu Chakrabarty

PHONE: (303) 414-1249 FAX:

FILE #: 0344.00

REPORTED: 05/11/22 14:59

SUBMITTED: 03/29/22

AQS SITE CODE:

SITE CODE: WV EtO

Analyte	Result	Units	Source Result	RPD	RPD Limit	Notes
Air Toxics by EPA Compendium Method TO-15 - Quality Control						
<i>Batch B2D1306 - Summa Canister Prep</i>						
Blank (B2D1306-BLK1)			Prepared & Analyzed: 04/13/22			
Ethylene oxide	ND	ppbv				U
<i>Batch B2D1504 - Summa Canister Prep</i>						
Blank (B2D1504-BLK1)			Prepared & Analyzed: 04/15/22			
Ethylene oxide	ND	ppbv				U
Duplicate (B2D1504-DUP1)			Source: 2032918-02 Prepared: 03/23/22 Analyzed: 04/15/22			
Ethylene oxide	ND	ppbv	ND		25	U
Duplicate (B2D1504-DUP2)			Source: 2032918-03 Prepared: 03/23/22 Analyzed: 04/15/22			
Ethylene oxide	0.0675	ppbv	0.07	5.62	25	

Eastern Research Group

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CERTIFICATE OF ANALYSIS

U.S. Environmental Protection Agency, Region 3
601 57th Street, SE
Charleston, WV 25304
ATTN: Ms. Renu Chakrabarty
PHONE: (303) 414-1249 **FAX:**

FILE #: 0344.00
REPORTED: 05/11/22 14:59
SUBMITTED: 03/29/22
AQS SITE CODE:
SITE CODE: WV EtO

Analyte	Result	Units	% Difference	Limit (%)	Notes
Air Toxics by EPA Compendium Method TO-15 - Quality Control					
<i>Sequence 2204035</i>					
Calibration Check (2204035-CCV1)			Prepared & Analyzed: 04/13/22		
Ethylene oxide	2.19	ppbv	-9.2	30.00	
<i>Sequence 2204039</i>					
Calibration Check (2204039-CCV1)			Prepared & Analyzed: 04/15/22		
Ethylene oxide	2.21	ppbv	-8.3	30.00	

Eastern Research Group

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601 57th Street, SE

Charleston, WV 25304

ATTN: Ms. Renu Chakrabarty

PHONE: (303) 414-1249 **FAX:**

FILE #: 0344.00

REPORTED: 05/11/22 14:59

SUBMITTED: 03/29/22

AQS SITE CODE:

SITE CODE: WV EtO

Notes and Definitions

U	Under Detection Limit
ND	Analyte NOT DETECTED
NR	Not Reported
MDL	Method Detection Limit
RPD	Relative Percent Difference

Note: This test is accredited under the 2016 TNI Standard; however the following analytes are not accredited: acetylene, bromodichloroethane, dichlorotetrafluoromethane, ethyl tert butyl ether, n-octane, tert amyl methyl ether, trichlorofluoroethane, and bromochloromethane.

Eastern Research Group

The results in this report apply only to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Fourth Sampling Period: April 25-26*, 2022

*April 26-27 for #0 South Charleston, #3 South Charleston, #4 North Charleston



Eastern Research Group
601 Keystone Park Drive
Suite 700
Morrisville, NC 27560

June 22, 2022

Ms. Renu Chakrabarty
WV Department of Environmental Protection
601 57th Street, SE
Charleston, WV 25304
Project Name: WV EtO

Dear Ms. Renu Chakrabarty,

This report contains the analytical results for the sample(s) received under chain(s) of custody by Eastern Research Group on 04/29/22 10:11 through 05/27/22 10:49.

Values below the MDL for QC results in this report are recorded as ND, however the actual values are reported in the accompanying Excel report with a "U" flag (Under the detection limit). The actual values are reported in AQS.

This test is accredited under the 2016 TNI Standard for Environmental Laboratories (FL DOH Certification # E87673). All analyses were performed as described in the US EPA-approved QAPP, under the contract for UATMP, NATTS, CSATAM, PAMS and NMOC support (US EPA Contract No. EP-D-14-030). This cover page is an integral part of this report, and any exceptions or comments are noted on the last page.

Release of the data contained in this data package and in the data submitted in the electronic data deliverable, has been authorized by the Program Manager, or the Program Manager's designee as verified by the following signature.

The issuance of the final Certificate of Analysis takes precedence over any previous Report. If you have any questions, please contact me at 919-468-7924.

Sincerely,

Julie Swift
Program Manager
julie.swift@erg.com

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CERTIFICATE OF ANALYSIS

U.S. Environmental Protection Agency, Region 3

601 57th Street, SE

Charleston, WV 25304

ATTN: Ms. Renu Chakrabarty

PHONE: (303) 414-1249 FAX:

FILE #: 0344.00

REPORTED: 06/22/22 14:19

SUBMITTED: 04/29/22 to 05/27/22

AQS SITE CODE:

SITE CODE: WV EtO

ANALYTICAL REPORT FOR SAMPLES

<u>SampleName</u>	<u>LabNumber</u>	<u>Matrix</u>	<u>Sampled</u>	<u>Received</u>
#0 South Charleston, WV	2042901-01	Air	04/27/22 14:13	04/29/22 10:11
#3 North Charleston, WV	2042901-02	Air	04/27/22 13:36	04/29/22 10:11
#15 Institute, WV	2042901-03	Air	04/26/22 12:41	04/29/22 10:11
Guthrie Background site	2042901-04	Air	04/26/22 11:58	04/29/22 10:11
#13 Institute, WV	2042901-05	Air	04/26/22 11:20	04/29/22 10:11
#14 Institute, WV	2042901-06	Air	04/26/22 10:59	04/29/22 10:11
#4 North Charleston, WV	2042901-07	Air	04/27/22 13:14	04/29/22 10:11
#10 Institute, WV	2042901-08	Air	04/26/22 12:36	04/29/22 10:11
#16 Buffalo, WV Background	2042901-09	Air	04/26/22 05:18	04/29/22 10:11
#3 North Charleston, WV	2052715-01	Air	05/25/22 07:02	05/27/22 10:49
#15 Institute, WV	2052715-02	Air	05/25/22 06:35	05/27/22 10:49
Guthrie Background site	2052715-03	Air	05/25/22 08:57	05/27/22 10:49
#16 Buffalo, WV Background	2052715-04	Air	05/25/22 05:30	05/27/22 10:49

Eastern Research Group

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CERTIFICATE OF ANALYSIS

U.S. Environmental Protection Agency, Region 3

601 57th Street, SE

Charleston, WV 25304

ATTN: Ms. Renu Chakrabarty

PHONE: (303) 414-1249 FAX:

FILE #: 0344.00

REPORTED: 06/22/22 14:19

SUBMITTED: 04/29/22 to 05/27/22

AQS SITE CODE:

SITE CODE: WV EtO

Description: #0 South Charleston, WV

Lab ID: 2042901-01

Sampled: 04/27/22 14:13

Pressure @ Receipt: 3.75 "Hg

Canister #: 41642

Received: 04/29/22 10:11

Comments: PR-73

Analyzed: 05/18/22 23:36

Air Toxics by EPA Compendium Method TO-15

Analyte	Results		Flag	MDL
	ppbv	ug/m ³		ppbv
Ethylene oxide	0.146	0.26		0.0480

Eastern Research Group

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CERTIFICATE OF ANALYSIS

U.S. Environmental Protection Agency, Region 3

601 57th Street, SE

Charleston, WV 25304

ATTN: Ms. Renu Chakrabarty

PHONE: (303) 414-1249 FAX:

FILE #: 0344.00

REPORTED: 06/22/22 14:19

SUBMITTED: 04/29/22 to 05/27/22

AQS SITE CODE:

SITE CODE: WV EtO

Description: #3 North Charleston, WV

Lab ID: 2042901-02

Sampled: 04/27/22 13:36

Pressure @ Receipt: 5.50 "Hg

Canister #: 41625

Received: 04/29/22 10:11

Comments: PR-65

Analyzed: 05/19/22 00:36

Air Toxics by EPA Compendium Method TO-15

Analyte	Results		Flag	MDL
	ppbv	ug/m ³		ppbv
Ethylene oxide	0.221	0.40		0.0480

Eastern Research Group

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CERTIFICATE OF ANALYSIS

U.S. Environmental Protection Agency, Region 3

601 57th Street, SE

Charleston, WV 25304

ATTN: Ms. Renu Chakrabarty

PHONE: (303) 414-1249 FAX:

FILE #: 0344.00

REPORTED: 06/22/22 14:19

SUBMITTED: 04/29/22 to 05/27/22

AQS SITE CODE:

SITE CODE: WV EtO

Description: #15 Institute, WV

Lab ID: 2042901-03

Sampled: 04/26/22 12:41

Pressure @ Receipt: 7.50 "Hg

Canister #: 41610

Received: 04/29/22 10:11

Comments: PR-71

Analyzed: 05/11/22 08:30

Air Toxics by EPA Compendium Method TO-15

Analyte	Results		Flag	MDL
	ppbv	ug/m ³		ppbv
Ethylene oxide	0.183	0.33		0.0480

Eastern Research Group

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CERTIFICATE OF ANALYSIS

U.S. Environmental Protection Agency, Region 3

601 57th Street, SE

Charleston, WV 25304

ATTN: Ms. Renu Chakrabarty

PHONE: (303) 414-1249 FAX:

FILE #: 0344.00

REPORTED: 06/22/22 14:19

SUBMITTED: 04/29/22 to 05/27/22

AQS SITE CODE:

SITE CODE: WV EtO

Description: Guthrie Background site

Lab ID: 2042901-04

Sampled: 04/26/22 11:58

Pressure @ Receipt: 4.00 "Hg

Canister #: 41673

Received: 04/29/22 10:11

Comments:

Analyzed: 05/11/22 09:33

Air Toxics by EPA Compendium Method TO-15

Analyte	Results		Flag	MDL
	ppbv	ug/m ³		ppbv
Ethylene oxide	0.271	0.49		0.0480

Eastern Research Group

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CERTIFICATE OF ANALYSIS

U.S. Environmental Protection Agency, Region 3

601 57th Street, SE

Charleston, WV 25304

ATTN: Ms. Renu Chakrabarty

PHONE: (303) 414-1249 FAX:

FILE #: 0344.00

REPORTED: 06/22/22 14:19

SUBMITTED: 04/29/22 to 05/27/22

AQS SITE CODE:

SITE CODE: WV EtO

Description: #13 Institute, WV

Lab ID: 2042901-05

Sampled: 04/26/22 11:20

Pressure @ Receipt: 3.00 "Hg

Canister #: 41582

Received: 04/29/22 10:11

Comments: PR-75

Analyzed: 05/11/22 10:36

Air Toxics by EPA Compendium Method TO-15

Analyte	Results		Flag	MDL
	ppbv	ug/m ³		ppbv
Ethylene oxide	0.124	0.22		0.0480

Eastern Research Group

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CERTIFICATE OF ANALYSIS

U.S. Environmental Protection Agency, Region 3

601 57th Street, SE

Charleston, WV 25304

ATTN: Ms. Renu Chakrabarty

PHONE: (303) 414-1249 FAX:

FILE #: 0344.00

REPORTED: 06/22/22 14:19

SUBMITTED: 04/29/22 to 05/27/22

AQS SITE CODE:

SITE CODE: WV EtO

Description: #14 Institute, WV

Lab ID: 2042901-06

Sampled: 04/26/22 10:59

Pressure @ Receipt: 5.50 "Hg

Canister #: 41651

Received: 04/29/22 10:11

Comments: PR-77

Analyzed: 05/19/22 01:36

Air Toxics by EPA Compendium Method TO-15

Analyte	Results		Flag	MDL
	ppbv	ug/m ³		ppbv
Ethylene oxide	0.514	0.93		0.0480

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FILE #: 0344.00

REPORTED: 06/22/22 14:19

SUBMITTED: 04/29/22 to 05/27/22

AQS SITE CODE:

SITE CODE: WV EtO

Description: #4 North Charleston, WV

Lab ID: 2042901-07

Sampled: 04/27/22 13:14

Pressure @ Receipt: 1.75 "Hg

Canister #: 41670

Received: 04/29/22 10:11

Comments: PR-79

Analyzed: 05/19/22 02:36

Air Toxics by EPA Compendium Method TO-15

Analyte	Results		Flag	MDL
	ppbv	ug/m ³		ppbv
Ethylene oxide	0.277	0.50		0.0480

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FILE #: 0344.00

REPORTED: 06/22/22 14:19

SUBMITTED: 04/29/22 to 05/27/22

AQS SITE CODE:

SITE CODE: WV EtO

Description: #10 Institute, WV

Lab ID: 2042901-08

Sampled: 04/26/22 12:36

Pressure @ Receipt: 0.50 "Hg

Canister #: 41659

Received: 04/29/22 10:11

Comments: PR-91

Analyzed: 05/19/22 03:36

Air Toxics by EPA Compendium Method TO-15

Analyte	Results		Flag	MDL
	ppbv	ug/m ³		ppbv
Ethylene oxide	0.674	1.22		0.0480

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FILE #: 0344.00

REPORTED: 06/22/22 14:19

SUBMITTED: 04/29/22 to 05/27/22

AQS SITE CODE:

SITE CODE: WV EtO

Description: #16 Buffalo, WV Background

Lab ID: 2042901-09

Sampled: 04/26/22 05:18

Pressure @ Receipt: 7.50 "Hg

Canister #: 41607

Received: 04/29/22 10:11

Comments: PR-36

Analyzed: 05/19/22 04:36

Air Toxics by EPA Compendium Method TO-15

Analyte	Results		Flag	MDL
	ppbv	ug/m ³		ppbv
Ethylene oxide	0.365	0.66		0.0480

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FILE #: 0344.00

REPORTED: 06/22/22 14:19

SUBMITTED: 04/29/22 to 05/27/22

AQS SITE CODE:

SITE CODE: WV EtO

Description: #3 North Charleston, WV

Lab ID: 2052715-01

Sampled: 05/25/22 07:02

Pressure @ Receipt: 1.30 "Hg

Canister #: 35135

Received: 05/27/22 10:49

Comments: PR-79

Analyzed: 06/04/22 07:49

Air Toxics by EPA Compendium Method TO-15

Analyte	Results		Flag	MDL
	ppbv	ug/m ³		ppbv
Ethylene oxide	0.184	0.33		0.0480

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FILE #: 0344.00

REPORTED: 06/22/22 14:19

SUBMITTED: 04/29/22 to 05/27/22

AQS SITE CODE:

SITE CODE: WV EtO

Description: #15 Institute, WV

Lab ID: 2052715-02

Sampled: 05/25/22 06:35

Pressure @ Receipt: 2.0 "Hg

Canister #: 35122

Received: 05/27/22 10:49

Comments: PR-73

Analyzed: 06/04/22 08:49

Air Toxics by EPA Compendium Method TO-15

Analyte	Results		Flag	MDL
	ppbv	ug/m ³		ppbv
Ethylene oxide	1.23	2.22		0.0480

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FILE #: 0344.00

REPORTED: 06/22/22 14:19

SUBMITTED: 04/29/22 to 05/27/22

AQS SITE CODE:

SITE CODE: WV EtO

Description: Guthrie Background site

Lab ID: 2052715-03

Sampled: 05/25/22 08:57

Pressure @ Receipt: 4.00 "Hg

Canister #: 19641

Received: 05/27/22 10:49

Comments:

Analyzed: 06/04/22 09:49

Air Toxics by EPA Compendium Method TO-15

Analyte	Results		Flag	MDL
	ppbv	ug/m ³		ppbv
Ethylene oxide	0.0733	0.13		0.0480

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FILE #: 0344.00

REPORTED: 06/22/22 14:19

SUBMITTED: 04/29/22 to 05/27/22

AQS SITE CODE:

SITE CODE: WV EtO

Description: #16 Buffalo, WV Background

Lab ID: 2052715-04

Sampled: 05/25/22 05:30

Pressure @ Receipt: 5.50 "Hg

Canister #: 35104

Received: 05/27/22 10:49

Comments: PR-36

Analyzed: 06/07/22 21:47

Air Toxics by EPA Compendium Method TO-15

Analyte	Results		Flag	MDL
	ppbv	ug/m ³		ppbv
Ethylene oxide	0.169	0.31		0.0480

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601 57th Street, SE
Charleston, WV 25304
ATTN: Ms. Renu Chakrabarty
PHONE: (303) 414-1249 **FAX:**

FILE #: 0344.00
REPORTED: 06/22/22 14:19
SUBMITTED: 04/29/22 to 05/27/22
AQS SITE CODE:
SITE CODE: WV EtO

Analyte	Result	Units	Source Result	RPD	RPD Limit	Notes
Air Toxics by EPA Compendium Method TO-15 - Quality Control						
<i>Batch B2E1010 - Summa Canister Prep</i>						
Blank (B2E1010-BLK1)						
Prepared: 05/06/22 Analyzed: 05/10/22						
Ethylene oxide	ND	ppbv				U
<i>Batch B2E1807 - Summa Canister Prep</i>						
Blank (B2E1807-BLK1)						
Prepared & Analyzed: 05/18/22						
Ethylene oxide	ND	ppbv				U
<i>Batch B2F0304 - Summa Canister Prep</i>						
Blank (B2F0304-BLK1)						
Prepared: 05/19/22 Analyzed: 06/03/22						
Ethylene oxide	ND	ppbv				U
<i>Batch B2F0712 - Summa Canister Prep</i>						
Blank (B2F0712-BLK1)						
Prepared: 05/19/22 Analyzed: 06/07/22						
Ethylene oxide	ND	ppbv				U

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PHONE: (303) 414-1249 **FAX:**

FILE #: 0344.00
REPORTED: 06/22/22 14:19
SUBMITTED: 04/29/22 to 05/27/22
AQS SITE CODE:
SITE CODE: WV EtO

Analyte	Result	Units	% Difference	Limit (%)	Notes
air Toxics by EPA Compendium Method TO-15 - Quality Control					
<i>Sequence 2205026</i>					
Calibration Check (2205026-CCV1)			Prepared & Analyzed: 05/10/22		
Ethylene oxide	2.38	ppbv	-1.4	30.00	
<i>Sequence 2205048</i>					
Calibration Check (2205048-CCV1)			Prepared & Analyzed: 05/18/22		
Ethylene oxide	2.97	ppbv	23.3	30.00	
<i>Sequence 2206010</i>					
Calibration Check (2206010-CCV1)			Prepared & Analyzed: 06/03/22		
Ethylene oxide	2.64	ppbv	9.5	30.00	
<i>Sequence 2206021</i>					
Calibration Check (2206021-CCV1)			Prepared & Analyzed: 06/07/22		
Ethylene oxide	2.44	ppbv	1.1	30.00	

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PHONE: (303) 414-1249 **FAX:**

FILE #: 0344.00
REPORTED: 06/22/22 14:19
SUBMITTED: 04/29/22 to 05/27/22
AQS SITE CODE:
SITE CODE: WV EtO

Notes and Definitions

U Under Detection Limit
ND Analyte NOT DETECTED
NR Not Reported
MDL Method Detection Limit
RPD Relative Percent Difference

Note: This test is accredited under the 2016 TNI Standard; however the following analytes are not accredited: acetylene, bromodichloroethane, dichlorotetrafluoromethane, ethyl tert butyl ether, n-octane, tert amyl methyl ether, trichlorofluoroethane, and bromochloromethane.

Eastern Research Group

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Appendix D Source Characterization Tables

Institute Area: EtO Source Descriptions

Model ID	Description	Source Type
221A	Polyox Source	Point
230M	Polyox Source	Point
230L	Polyox Source	Point
230K	Polyox Source	Point
230O	Polyox Source	Point
230HH	Polyox Source	Point
POLYVOL1	Polyox-Fugitives	Volume
BL8389A1	Polyox-Fugitives	Volume
BL8389A2	Polyox-Fugitives	Volume
BL8389B1	Polyox-Fugitives	Volume
BL8389B2	Polyox-Fugitives	Volume
EODISTFL	EO Distribution Source	Point
Rail1	EO Distribution Fugitive-Railcar Unloading	Volume
Rail2	EO Distribution Fugitive-Railcar Unloading	Volume
Rail3	EO Distribution Fugitive-Railcar Unloading	Volume
Rail4	EO Distribution Fugitive-Railcar Unloading	Volume
Rail5	EO Distribution Fugitive-Railcar Unloading	Volume
PUMP1	EO Distribution Fugitive-Pumps/Diked Area	Volume
PUMP2	EO Distribution Fugitive-Pumps/Diked Area	Volume
PUMP3	EO Distribution Fugitive-Pumps/Diked Area	Volume
TANKS1	EO Distribution Fugitive-Tanks Area	Volume
TANKS2	EO Distribution Fugitive-Tanks Area	Volume
FLAREFU1	EO Distribution Fugitive-Flare Area	Volume
FLAREFU2	EO Distribution Fugitive-Flare Area	Volume
R251	EO Distribution Fugitive-Area Near Rt. 25	Volume
R252	EO Distribution Fugitive-Area Near Rt. 25	Volume



South Charleston Area: EtO Source Descriptions

Model ID	Description	Source Type
E704	Union Carbide-Oxide Adducts	Point
E705	Union Carbide-Oxide Adducts	Point
E706	Union Carbide-Oxide Adducts	Point
E707	Union Carbide-Oxide Adducts	Point
E708	Union Carbide-Oxide Adducts	Point
T9120	Union Carbide-Oxide Adducts	Point
T9121	Union Carbide-Oxide Adducts	Point
T9128	Union Carbide-Oxide Adducts	Point
T9129	Union Carbide-Oxide Adducts	Point
T9151	Union Carbide-Oxide Adducts	Point
T9180	Union Carbide-Oxide Adducts	Point
T9181	Union Carbide-Oxide Adducts	Point
T9182	Union Carbide-Oxide Adducts	Point
T9186	Union Carbide-Oxide Adducts	Point
T9187	Union Carbide-Oxide Adducts	Point
T9223	Union Carbide-Oxide Adducts	Point
T9228	Union Carbide-Oxide Adducts	Point
T9502	Union Carbide-Oxide Adducts	Point
T9504	Union Carbide-Oxide Adducts	Point
T9505	Union Carbide-Oxide Adducts	Point
T9507	Union Carbide-Oxide Adducts	Point
T9509	Union Carbide-Oxide Adducts	Point
T9510	Union Carbide-Oxide Adducts	Point
T9511	Union Carbide-Oxide Adducts	Point
T9512	Union Carbide-Oxide Adducts	Point
T9553	Union Carbide-Oxide Adducts	Point
T9554	Union Carbide-Oxide Adducts	Point
T9555	Union Carbide-Oxide Adducts	Point
T9556	Union Carbide-Oxide Adducts	Point
T9562	Union Carbide-Oxide Adducts	Point
T9563	Union Carbide-Oxide Adducts	Point
T9565	Union Carbide-Oxide Adducts	Point
T9568	Union Carbide-Oxide Adducts	Point
T9569	Union Carbide-Oxide Adducts	Point
T9612	Union Carbide-Oxide Adducts	Point
T9614	Union Carbide-Oxide Adducts	Point
T9615	Union Carbide-Oxide Adducts	Point
T9616	Union Carbide-Oxide Adducts	Point
T9617	Union Carbide-Oxide Adducts	Point
T9619	Union Carbide-Oxide Adducts	Point
T9622	Union Carbide-Oxide Adducts	Point
T9624	Union Carbide-Oxide Adducts	Point
T9625	Union Carbide-Oxide Adducts	Point
T9627	Union Carbide-Oxide Adducts	Point



South Charleston Area: EtO Source Descriptions (Continued)

Model ID	Description	Source Type
T9629	Union Carbide-Oxide Adducts	Point
T9632	Union Carbide-Oxide Adducts	Point
T9634	Union Carbide-Oxide Adducts	Point
T9635	Union Carbide-Oxide Adducts	Point
T9637	Union Carbide-Oxide Adducts	Point
T9640	Union Carbide-Oxide Adducts	Point
T9643	Union Carbide-Oxide Adducts	Point
T9645	Union Carbide-Oxide Adducts	Point
T9646	Union Carbide-Oxide Adducts	Point
T9649	Union Carbide-Oxide Adducts	Point
T9734	Union Carbide-Oxide Adducts	Point
T9736	Union Carbide-Oxide Adducts	Point
T9738	Union Carbide-Oxide Adducts	Point
T9749	Union Carbide-Oxide Adducts	Point
T9798	Union Carbide-Oxide Adducts	Point
T9812	Union Carbide-Oxide Adducts	Point
T9814	Union Carbide-Oxide Adducts	Point
T9815	Union Carbide-Oxide Adducts	Point
T9822	Union Carbide-Oxide Adducts	Point
T9824	Union Carbide-Oxide Adducts	Point
T9825	Union Carbide-Oxide Adducts	Point
L001TT1	Union Carbide-Oxide Adducts	Point
L001TT2	Union Carbide-Oxide Adducts	Point
L001TT3	Union Carbide-Oxide Adducts	Point
L001TT4	Union Carbide-Oxide Adducts	Point
L001TT5	Union Carbide-Oxide Adducts	Point
L001TT6	Union Carbide-Oxide Adducts	Point
OHR2	Oxide Adducts Fugitive-EO Header and Reactor 2	Volume
OAR451	Oxide Adducts Fugitive-Reactors 4 and 5	Volume
OAR452	Oxide Adducts Fugitive-Reactors 4 and 5	Volume
OAR6	Oxide Adducts Fugitive-Reactor 6	Volume
OAR7	Oxide Adducts Fugitive-Reactor 7	Volume
OAWTIL	Oxide Adducts Fugitive-Western Tip of Island	Line
OALIB1	Oxide Adducts Fugitive-Lower Island Bridge	Volume
OALIB2	Oxide Adducts Fugitive-Lower Island Bridge	Volume
OALIB3	Oxide Adducts Fugitive-Lower Island Bridge	Volume
E10813	Triton-Dow/UCC	Point
L001	Triton-Dow/UCC	Point
L002	Triton-Dow/UCC	Point
L003	Triton-Dow/UCC	Point
L004	Triton-Dow/UCC	Point
T8313	Triton-Dow/UCC	Point
T8314	Triton-Dow/UCC	Point
T8320	Triton-Dow/UCC	Point
T8322	Triton-Dow/UCC	Point



South Charleston Area: EtO Source Descriptions (Continued)

Model ID	Description	Source Type
T8323	Triton-Dow/UCC	Point
T8331	Triton-Dow/UCC	Point
T8334	Triton-Dow/UCC	Point
T8343	Triton-Dow/UCC	Point
T8344	Triton-Dow/UCC	Point
T8360	Triton-Dow/UCC	Point
T8361	Triton-Dow/UCC	Point
T8363	Triton-Dow/UCC	Point
T8364	Triton-Dow/UCC	Point
T8373	Triton-Dow/UCC	Point
T8380	Triton-Dow/UCC	Point
T8381	Triton-Dow/UCC	Point
T8383	Triton-Dow/UCC	Point
T8390	Triton-Dow/UCC	Point
T8391	Triton-Dow/UCC	Point
T8392	Triton-Dow/UCC	Point
T8393	Triton-Dow/UCC	Point
T8420	Triton-Dow/UCC	Point
THF	Triton-Header Fugitives	Volume
TRF	Triton-Reactor Fugitives	Volume
TFNC	Triton-Fugitives Near Covestro	Volume
CEO03F1	Covestro-EO03 Fugitives	Volume
CEO03F2	Covestro-EO03 Fugitives	Volume
CPIVF1	Covestro-Phase IV Fugitives	Volume
CPIVF2	Covestro-Phase IV Fugitives	Volume
1RX	Covestro-Point Source	Horizontal Point
2RX	Covestro-Point Source	Horizontal Point
3RX	Covestro-Point Source	Horizontal Point
789RX	Covestro-Point Source	Point
CHMIX	Chemical Mixing Process Area	Area



Institute Area: EtO Point Source Locations and Stack Parameters

Model ID	UTM Coordinates		Elevation (m)	Stack Height (m)	Stack Temperature (K)	Stack Exit Velocity (m/s)	Stack Diameter (m)
	East (m)	North (m)					
221A	431513.49	4248834.41	181.53	35.66	866.48	4.82	0.25
230M	432213.63	4248385.61	181.64	4.57	318.15	16.61	0.04
230L	432200.85	4248393.16	181.74	4.57	318.15	22.82	0.04
230K	432191.22	4248390.80	181.63	4.57	318.15	51.50	0.04
230O	432192.76	4248376.80	181.62	27.43	318.15	2.62	0.20
230HH	432173.00	4248384.18	181.56	0.91	0.00	4.57	0.02
EODISTFL	431659.87	4248946.05	181.60	27.43	866.48	8.69	0.10



Institute Area: EtO Volume Source Locations and Parameters

Model ID	UTM Coordinates		Elevation (m)	Release Height (m)	Initial Lateral Dimension (m)	Initial Vertical Dimension (m)
	East (m)	North (m)				
POLYVOL1	432175.00	4248394.00	181.60	4.57	3.02	4.25
BL8389A1	432195.00	4248382.00	181.66	13.72	3.99	2.13
BL8389A2	432191.00	4248374.00	181.66	13.72	3.99	2.13
BL8389B1	432195.00	4248382.00	181.66	22.86	3.99	2.13
BL8389B2	432191.00	4248374.00	181.66	22.86	3.99	2.13
Rail1	431609.00	4248856.00	182.33	5.62	4.77	0.35
Rail2	431616.00	4248851.00	182.33	5.62	4.77	0.35
Rail3	431624.00	4248847.00	182.33	5.62	4.77	0.35
Rail4	431632.00	4248843.00	182.33	5.62	4.77	0.35
Rail5	431640.00	4248837.00	182.33	5.62	4.77	0.35
PUMP1	431612.00	4248893.00	182.55	2.44	5.58	0.57
PUMP2	431620.00	4248889.00	182.55	2.44	5.58	0.57
PUMP3	431630.00	4248884.00	182.55	2.44	5.58	0.57
TANKS1	431587.00	4248907.00	182.76	5.49	5.79	0.28
TANKS2	431599.00	4248903.00	182.76	5.49	5.79	0.28
FLAREFU1	431658.00	4248944.00	182.87	2.44	3.69	0.28
FLAREFU2	431653.00	4248936.00	182.87	2.44	3.69	0.28
R251	431873.00	4249163.00	183.66	1.07	1.80	0.35
R252	431877.00	4249161.00	183.66	1.07	1.80	0.35



South Charleston Area: EtO Point Source Locations and Stack Parameters

Model ID	UTM Coordinates		Elevation (m)	Stack Height (m)	Stack Temperature ¹ (K)	Stack Exit Velocity (m/s)	Stack Diameter (m)
	East (m)	North (m)					
E704	439727.09	4247132.14	181.84	9.14	353.15	65.62	0.02
E705	439676.24	4247142.39	182.66	9.14	353.15	65.62	0.02
E706	439676.24	4247142.39	182.66	9.14	353.15	65.62	0.02
E707	439711.39	4247111.61	184.05	10.97	353.15	49.17	0.02
E708	439675.59	4247090.69	184.41	12.19	353.15	18.53	0.04
T9120	439685.84	4247106.04	184.07	6.71	0.00	0.10	0.20
T9121	439685.84	4247106.04	184.07	6.71	0.00	0.10	0.20
T9128	439723.41	4247107.53	183.89	7.32	0.00	0.10	0.15
T9129	439723.41	4247107.53	183.89	7.32	0.00	0.10	0.20
T9151	439694.59	4247109.08	184.05	5.49	0.00	0.08	0.10
T9180	439706.89	4247106.10	184.25	7.62	0.00	0.10	0.20
T9181	439706.89	4247106.10	184.25	7.62	0.00	0.10	0.20
T9182	439706.89	4247106.10	184.25	7.62	0.00	0.10	0.20
T9186	439666.54	4247084.54	184.30	18.90	0.00	0.10	0.20
T9187	439666.54	4247084.54	184.30	18.90	0.00	0.10	0.20
T9223	439665.65	4247093.87	184.07	6.40	0.00	0.10	0.20
T9228	439694.38	4247104.31	184.13	5.79	0.00	0.10	0.20
T9502	439720.77	4247128.08	183.17	13.72	0.00	0.10	0.20
T9504	439679.63	4247140.93	183.01	13.72	0.00	0.10	0.20
T9505	439678.63	4247135.61	183.28	13.72	0.00	0.10	0.20
T9507	438886.77	4136148.36	183.29	5.49	0.00	0.10	0.20
T9509	439638.21	4247104.28	183.92	9.14	0.00	0.15	0.20
T9510	439647.54	4247102.44	183.85	9.14	0.00	0.01	0.51
T9511	439649.27	4247111.19	183.78	9.14	0.00	0.33	0.10
T9512	439655.84	4247113.36	183.74	9.14	0.00	0.40	0.10
T9553	439767.24	4247080.46	183.94	18.90	0.00	0.06	0.25
T9554	439773.78	4247078.75	183.94	18.90	0.00	0.10	0.20
T9555	439773.78	4247078.75	183.94	18.90	0.00	0.15	0.20
T9556	439758.90	4247075.19	183.97	18.90	0.00	0.11	0.20
T9562	439747.35	4247084.49	184.17	9.75	0.00	0.02	0.51
T9563	439744.91	4247073.97	184.24	9.75	0.00	0.02	0.51
T9565	439773.66	4247051.12	184.38	6.71	0.00	0.08	0.25
T9568	439775.38	4247058.65	184.32	6.71	0.00	0.03	0.41
T9569	439794.99	4247053.62	184.22	7.62	0.00	0.04	0.20
T9612	439717.98	4247129.21	183.23	13.41	0.00	0.10	0.20
T9614	439684.09	4247141.00	182.55	13.72	0.00	0.04	0.20
T9615	439681.94	4247134.80	183.22	13.72	0.00	0.10	0.20
T9616	439666.54	4247084.54	184.30	18.90	0.00	0.14	0.20
T9617	439717.79	4247104.02	184.24	18.90	0.00	0.11	0.15
T9619	439654.97	4247137.11	183.34	19.51	0.00	0.13	0.20
T9622	439717.98	4247129.21	183.23	13.41	0.00	0.10	0.20



South Charleston Area: EtO Point Source Locations and Stack Parameters (Continued)

Model ID	UTM Coordinates		Elevation (m)	Stack Height (m)	Stack Temperature ¹ (K)	Stack Exit Velocity (m/s)	Stack Diameter (m)
	East (m)	North (m)					
T9624	439684.09	4247141.00	182.55	13.72	0.00	0.11	0.20
T9625	439681.94	4247134.80	183.22	13.72	0.00	0.10	0.20
T9627	439717.79	4247104.02	184.24	18.90	0.00	0.10	0.20
T9629	439654.97	4247137.11	183.34	19.51	0.00	0.15	0.20
T9632	439805.78	4246976.75	184.65	6.10	0.00	0.27	0.10
T9634	439779.53	4247018.78	184.65	6.40	0.00	0.22	0.10
T9635	439775.43	4247007.05	184.61	6.40	0.00	0.30	0.10
T9637	439801.57	4247045.47	184.47	7.62	0.00	0.12	0.15
T9640	439800.09	4247045.48	184.46	7.62	0.00	0.21	0.15
T9643	439793.46	4247046.86	184.31	7.62	0.00	0.09	0.15
T9645	439793.46	4247046.86	184.31	7.62	0.00	0.12	0.15
T9646	439788.63	4247055.11	184.21	7.62	0.00	0.24	0.10
T9649	439780.64	4247049.73	184.31	7.62	0.00	0.20	0.10
T9734	439644.66	4247125.21	183.55	5.49	0.00	0.60	0.15
T9736	439648.58	4247124.62	183.58	5.49	0.00	0.58	0.15
T9738	439652.16	4247123.38	183.57	4.88	0.00	0.02	0.51
T9749	439718.70	4247108.45	184.03	7.92	0.00	0.19	0.15
T9798	439726.21	4247119.94	183.28	6.40	0.00	0.10	0.20
T9812	439704.64	4247132.97	182.55	15.24	0.00	0.10	0.20
T9814	439697.25	4247137.46	181.85	13.72	0.00	0.10	0.20
T9815	439696.16	4247131.92	183.06	15.24	0.00	0.10	0.20
T9822	439704.64	4247132.97	182.55	15.24	0.00	0.10	0.20
T9824	439697.25	4247137.46	181.85	13.72	0.00	0.10	0.20
T9825	439696.16	4247131.92	183.06	15.24	0.00	0.10	0.20
L001TT1	439641.71	4247081.62	184.31	3.66	0.00	0.02	0.51
L001TT2	439662.90	4247076.13	184.44	3.66	0.00	0.02	0.51
L001TT3	439673.90	4247075.16	184.49	3.66	0.00	0.02	0.51
L001TT4	439683.39	4247070.65	184.58	3.66	0.00	0.02	0.51
L001TT5	439694.48	4247070.02	184.47	3.66	0.00	0.02	0.51
L001TT6	439706.07	4247066.71	184.51	3.66	0.00	0.02	0.51
E10813	440122.41	4247192.78	181.87	22.86	313.15	0.40	0.21
L001	440069.21	4247170.09	181.81	3.66	333.15	0.02	0.51
L002	440087.01	4247142.99	181.97	8.23	333.15	0.04	0.20
L003	440147.90	4247214.00	181.71	3.66	333.15	0.02	0.51
L004	440086.08	4247182.17	181.83	3.66	333.15	0.02	0.51
T8313	440078.36	4247189.77	182.04	14.02	0.00	0.71	0.08
T8314	440074.96	4247190.80	181.96	14.02	0.00	0.71	0.08
T8320	440095.40	4247190.53	181.87	10.67	0.00	0.71	0.08
T8322	440084.58	4247192.95	181.84	7.16	0.00	0.71	0.08
T8323	440079.34	4247193.32	181.94	15.54	0.00	0.18	0.15
T8331	440111.86	4247195.07	181.87	6.71	0.00	0.71	0.08
T8334	440076.49	4247197.78	181.80	15.54	0.00	0.18	0.15



South Charleston Area: EtO Point Source Locations and Stack Parameters (Continued)

Model ID	UTM Coordinates		Elevation (m)	Stack Height (m)	Stack Temperature ¹ (K)	Stack Exit Velocity (m/s)	Stack Diameter (m)
	East (m)	North (m)					
T8343	440081.87	4247204.51	181.89	15.54	0.00	0.10	0.20
T8344	440078.47	4247205.20	181.86	15.54	0.00	0.18	0.15
T8360	440099.72	4247208.15	181.85	5.74	0.00	0.41	0.10
T8361	440094.40	4247209.41	181.84	5.74	0.00	0.71	0.08
T8363	440083.59	4247211.60	181.93	15.54	0.00	0.10	0.20
T8364	440080.10	4247212.40	181.92	15.54	0.00	0.10	0.20
T8373	440083.90	4247218.58	181.80	8.99	0.00	0.18	0.15
T8380	440101.89	4247217.78	181.91	10.67	0.00	1.53	0.05
T8381	440097.27	4247218.93	181.85	10.67	0.00	1.53	0.05
T8383	440084.98	4247222.57	181.77	8.63	0.00	0.41	0.10
T8390	440103.06	4247222.21	181.85	10.67	0.00	0.71	0.08
T8391	440098.44	4247223.80	181.79	10.67	0.00	0.71	0.08
T8392	440092.60	4247225.07	181.76	10.57	0.00	0.41	0.10
T8393	440085.97	4247226.56	181.77	9.14	0.00	0.71	0.08
T8420	440130.27	4247192.94	181.87	22.86	0.00	2.62	0.04
1RX ²	439938.84	4247272.37	180.07	14.63	373.15	10.00	0.08
1RX ²	439938.84	4247272.37	180.07	14.63	373.15	10.00	0.08
1RX ²	439938.84	4247272.37	180.07	14.63	313.15	10.00	0.08
789RX	440278.83	4247093.29	181.75	12.80	313.15	10.00	0.25

¹Per the AERMOD User's Guide, a stack temperature of "0 K", is input for ambient temperature.

²Horizontal Point Source



South Charleston Area: EtO Area Source Locations and Stack Parameters

Model ID	UTM Coordinates		Elevation (m)	Release Height (m)	Area Length (m)
	East (m)	North (m)			
CHMIX	440262.00	4246838.00	176.33	3.05	10.00

South Charleston Area: Line Source Endpoint Coordinates and Elevation

Model ID	Line Endpoint #1 UTM Coordinates		Line Endpoint #2 UTM Coordinates		Elevation (m)
	East (m)	North (m)	East (m)	North (m)	
OAWTIL	439166.00	4247407.00	439631.00	4247325.00	181.07

South Charleston Area: Additional Line Source Parameters

Model ID	Release Height (m)	Source Width (m)	Initial Vertical Dimension (m)
OAWTIL	0.00	3.47	3.66



South Charleston Area: EtO Volume Source Locations and Stack Parameters

Model ID	UTM Coordinates		Elevation (m)	Release Height (m)	Initial Lateral Dimension (m)	Initial Vertical Dimension (m)
	East (m)	North (m)				
OHR2	439731.00	4247128.00	182.63	4.88	2.87	1.98
OAR451	439674.00	4247142.00	183.00	8.53	2.13	0.28
OAR452	439672.00	4247137.00	183.00	8.53	2.13	0.28
OAR6	439676.00	4247091.00	184.41	7.62	0.97	2.13
OAR7	439713.00	4247110.00	184.27	7.77	0.74	2.20
OALIB1	439762.00	4247237.00	176.33	2.44	2.63	0.85
OALIB2	439767.00	4247235.00	176.33	2.44	2.63	0.85
OALIB3	439773.00	4247233.00	176.33	2.44	2.63	0.85
THF	440132.00	4247228.00	180.81	1.83	1.17	0.57
TRF	440122.00	4247181.00	181.79	9.14	1.91	1.42
TFNC	439987.00	4247262.00	180.53	1.22	0.74	0.28
CEO03F1	439941.00	4247253.00	181.83	10.06	13.02	2.41
CEO03F2	439935.00	4247225.00	181.83	10.06	13.02	2.41
CPIVF1	440271.00	4247100.00	181.78	6.10	11.16	2.13
CPIVF2	440293.00	4247096.00	181.78	6.10	11.16	2.13



Institute Area: Point Source EtO Emission Rates

Model ID	EtO Emission Rate (g/s)			
	January 2022	February 2022	March 2022	April 2022
221A	4.5359E-03	4.5359E-03	4.5359E-03	0.0000E+00
230M	2.5389E-03	2.6434E-03	2.7468E-03	0.0000E+00
230L	1.1191E-02	1.2436E-02	1.2890E-02	0.0000E+00
230K	2.6593E-03	2.4507E-03	2.6699E-03	0.0000E+00
230O	3.2759E-04	3.5279E-04	2.7543E-03	0.0000E+00
230HH	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
EODISTFL	2.9490E-03	4.6855E-03	5.1856E-03	4.8949E-03

Institute Area: Volume Source EtO Emission Rates

Model ID	EtO Emission Rate (g/s)			
	January 2022	February 2022	March 2022	April 2022
POLYVOL1	1.0338E-03	8.6939E-04	6.9299E-04	1.9908E-04
BL8389A1	3.1487E-05	3.1499E-05	3.1499E-05	3.4476E-05
BL8389A2	3.1487E-05	3.1499E-05	3.1499E-05	3.4476E-05
BL8389B1	1.0966E-04	1.0710E-04	1.0710E-04	1.0996E-04
BL8389B2	1.0966E-04	1.0710E-04	1.0710E-04	1.0996E-04
Rail1	3.9555E-04	3.9555E-04	3.9555E-04	3.9555E-04
Rail2	3.9555E-04	3.9555E-04	3.9555E-04	3.9555E-04
Rail3	3.9555E-04	3.9555E-04	3.9555E-04	3.9555E-04
Rail4	3.9555E-04	3.9555E-04	3.9555E-04	3.9555E-04
Rail5	3.9555E-04	3.9555E-04	3.9555E-04	3.9555E-04
PUMP1	1.0703E-03	1.0703E-03	1.0703E-03	1.0703E-03
PUMP2	1.0703E-03	1.0703E-03	1.0703E-03	1.0703E-03
PUMP3	1.0703E-03	1.0703E-03	1.0703E-03	1.0703E-03
TANKS1	9.0102E-04	9.0102E-04	9.0102E-04	9.0102E-04
TANKS2	9.0102E-04	9.0102E-04	9.0102E-04	9.0102E-04
FLAREFU1	2.3689E-04	2.3689E-04	2.3689E-04	2.3689E-04
FLAREFU2	2.3689E-04	2.3689E-04	2.3689E-04	2.3689E-04
R251	5.7806E-05	5.7806E-05	5.7806E-05	5.7806E-05
R252	5.7806E-05	5.7806E-05	5.7806E-05	5.7806E-05



South Charleston Area: Point Source EtO Emission Rates

Model ID	EtO Emission Rate (g/s)			
	January 2022	February 2022	March 2022	April 2022
E704	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
E705	0.0000E+00	0.0000E+00	6.4049E-03	0.0000E+00
E706	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
E707	0.0000E+00	3.4124E-03	0.0000E+00	0.0000E+00
E708	0.0000E+00	3.9374E-03	3.3599E-03	0.0000E+00
T9120	1.6952E-06	1.6952E-06	1.6952E-06	1.6952E-06
T9121	1.6952E-06	1.6952E-06	1.6952E-06	1.6952E-06
T9128	1.6952E-06	1.6952E-06	1.6952E-06	0.0000E+00
T9129	1.6952E-06	1.6952E-06	0.0000E+00	0.0000E+00
T9151	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
T9180	1.6952E-06	1.6952E-06	1.6952E-06	0.0000E+00
T9181	1.6952E-06	1.6952E-06	1.6952E-06	0.0000E+00
T9182	0.0000E+00	1.6952E-06	1.6952E-06	0.0000E+00
T9186	1.6952E-06	1.6952E-06	1.6952E-06	1.6952E-06
T9187	1.6952E-06	1.6952E-06	1.6952E-06	1.6952E-06
T9223	0.0000E+00	1.6952E-06	1.6952E-06	0.0000E+00
T9228	0.0000E+00	1.6952E-06	1.6952E-06	0.0000E+00
T9502	1.6952E-06	1.6952E-06	1.6952E-06	1.6952E-06
T9504	1.6952E-06	1.6952E-06	1.6952E-06	0.0000E+00
T9505	0.0000E+00	1.6952E-06	1.6952E-06	0.0000E+00
T9507	0.0000E+00	1.6952E-06	1.6952E-06	0.0000E+00
T9509	1.6952E-06	1.6952E-06	1.6952E-06	1.6952E-06
T9510	1.6952E-06	1.6952E-06	1.6952E-06	1.6952E-06
T9511	1.6952E-06	1.6952E-06	1.6952E-06	1.6952E-06
T9512	1.6952E-06	1.6952E-06	1.6952E-06	1.6952E-06
T9553	1.6952E-06	1.6952E-06	1.6952E-06	1.6952E-06
T9554	1.6952E-06	1.6952E-06	1.6952E-06	1.6952E-06
T9555	1.6952E-06	1.6952E-06	1.6952E-06	1.6952E-06
T9556	1.6952E-06	1.6952E-06	1.6952E-06	1.6952E-06
T9562	1.6952E-06	1.6952E-06	1.6952E-06	1.6952E-06
T9563	1.6952E-06	1.6952E-06	1.6952E-06	1.6952E-06
T9565	1.6952E-06	1.6952E-06	1.6952E-06	1.6952E-06
T9568	1.6952E-06	1.6952E-06	1.6952E-06	1.6952E-06
T9569	1.6952E-06	1.6952E-06	1.6952E-06	1.6952E-06
T9612	1.6952E-06	1.6952E-06	1.6952E-06	0.0000E+00
T9614	1.6952E-06	1.6952E-06	1.6952E-06	1.6952E-06
T9615	1.6952E-06	1.6952E-06	1.6952E-06	1.6952E-06
T9616	1.6952E-06	0.0000E+00	0.0000E+00	1.6952E-06
T9617	1.6952E-06	1.6952E-06	1.6952E-06	1.6952E-06
T9619	1.6952E-06	1.6952E-06	1.6952E-06	1.6952E-06
T9622	1.6952E-06	1.6952E-06	1.6952E-06	1.6952E-06
T9624	1.6952E-06	1.6952E-06	1.6952E-06	1.6952E-06



South Charleston Area: Point Source EtO Emission Rates (Continued)

Model ID	EtO Emission Rate (g/s)			
	January 2022	February 2022	March 2022	April 2022
T9625	1.6952E-06	1.6952E-06	1.6952E-06	1.6952E-06
T9627	0.0000E+00	1.6952E-06	1.6952E-06	1.6952E-06
T9629	1.6952E-06	1.6952E-06	1.6952E-06	1.6952E-06
T9632	1.6952E-06	1.6952E-06	1.6952E-06	0.0000E+00
T9634	1.6952E-06	1.6952E-06	1.6952E-06	0.0000E+00
T9635	1.6952E-06	1.6952E-06	0.0000E+00	0.0000E+00
T9637	1.6952E-06	1.6952E-06	1.6952E-06	0.0000E+00
T9640	1.6952E-06	1.6952E-06	1.6952E-06	1.6952E-06
T9643	0.0000E+00	0.0000E+00	1.6952E-06	1.6952E-06
T9645	0.0000E+00	1.6952E-06	1.6952E-06	1.6952E-06
T9646	1.6952E-06	1.6952E-06	1.6952E-06	1.6952E-06
T9649	1.6952E-06	1.6952E-06	1.6952E-06	1.6952E-06
T9734	1.6952E-06	1.6952E-06	1.6952E-06	1.6952E-06
T9736	1.6952E-06	1.6952E-06	1.6952E-06	1.6952E-06
T9738	1.6952E-06	1.6952E-06	1.6952E-06	1.6952E-06
T9749	1.6952E-06	1.6952E-06	1.6952E-06	1.6952E-06
T9798	1.6952E-06	1.6952E-06	1.6952E-06	1.6952E-06
T9812	1.6952E-06	1.6952E-06	1.6952E-06	0.0000E+00
T9814	1.6952E-06	1.6952E-06	1.6952E-06	1.6952E-06
T9815	1.6952E-06	1.6952E-06	1.6952E-06	0.0000E+00
T9822	1.6952E-06	1.6952E-06	1.6952E-06	1.6952E-06
T9824	1.6952E-06	1.6952E-06	1.6952E-06	1.6952E-06
T9825	1.6952E-06	1.6952E-06	1.6952E-06	1.6952E-06
L001TT1	1.6952E-06	1.6952E-06	1.6952E-06	1.6952E-06
L001TT2	1.6952E-06	1.6952E-06	1.6952E-06	1.6952E-06
L001TT3	0.0000E+00	0.0000E+00	1.6952E-06	1.6952E-06
L001TT4	0.0000E+00	0.0000E+00	1.6952E-06	1.6952E-06
L001TT5	0.0000E+00	0.0000E+00	1.6952E-06	1.6952E-06
L001TT6	0.0000E+00	0.0000E+00	0.0000E+00	1.6952E-06
E10813	4.7249E-04	8.3999E-04	6.2999E-04	1.7325E-03
L001	2.0799E-05	2.0799E-05	2.0799E-05	2.0799E-05
L002	2.0799E-05	2.0799E-05	2.0799E-05	2.0799E-05
L003	2.0799E-05	2.0799E-05	2.0799E-05	2.0799E-05
L004	2.0799E-05	2.0799E-05	2.0799E-05	2.0799E-05
T8313	1.1606E-05	1.1606E-05	1.1606E-05	1.1606E-05
T8314	1.1606E-05	1.1606E-05	1.1606E-05	1.1606E-05
T8320	1.1606E-05	1.1606E-05	1.1606E-05	0.0000E+00
T8322	1.1606E-05	1.1606E-05	0.0000E+00	0.0000E+00
T8323	1.1606E-05	1.1606E-05	1.1606E-05	1.1606E-05
T8331	1.1606E-05	1.1606E-05	0.0000E+00	1.1606E-05
T8334	1.1606E-05	1.1606E-05	1.1606E-05	1.1606E-05
T8343	1.1606E-05	1.1606E-05	1.1606E-05	1.1606E-05
T8344	1.1606E-05	1.1606E-05	1.1606E-05	1.1606E-05
T8360	1.1606E-05	1.1606E-05	1.1606E-05	1.1606E-05



South Charleston Area: Point Source EtO Emission Rates (Continued)

Model ID	EtO Emission Rate (g/s)			
	January 2022	February 2022	March 2022	April 2022
T8361	1.1606E-05	1.1606E-05	1.1606E-05	1.1606E-05
T8363	1.1606E-05	1.1606E-05	1.1606E-05	1.1606E-05
T8364	1.1606E-05	1.1606E-05	0.0000E+00	1.1606E-05
T8373	1.1606E-05	1.1606E-05	1.1606E-05	1.1606E-05
T8380	1.1606E-05	0.0000E+00	1.1606E-05	0.0000E+00
T8381	1.1606E-05	1.1606E-05	1.1606E-05	1.1606E-05
T8383	1.1606E-05	1.1606E-05	1.1606E-05	1.1606E-05
T8390	1.1606E-05	1.1606E-05	0.0000E+00	1.1606E-05
T8391	1.1606E-05	0.0000E+00	0.0000E+00	1.1606E-05
T8392	1.1606E-05	1.1606E-05	0.0000E+00	1.1606E-05
T8393	1.1606E-05	0.0000E+00	1.1606E-05	1.1606E-05
T8420	1.1606E-05	1.1606E-05	1.1606E-05	1.1606E-05
1RX ¹	0.0000E+00	0.0000E+00	5.2415E-05	0.0000E+00
2RX ¹	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
3RX ¹	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
789RX	5.6699E-04	8.8199E-04	5.7707E-04	5.7959E-04

¹Horizontal Point Source



South Charleston Area: Area Source EtO Emission Rates

Model ID	EtO Area Emission Rate [g/(s - m ²)]			
	January 2022	February 2022	March 2022	April 2022
CHMIX	6.8851E-07	6.8851E-07	6.8851E-07	6.8851E-07

South Charleston Area: Line Source EtO Emission Rates

Model ID	EtO Line Source Emission Rate [g/(s - m ²)]			
	January 2022	February 2022	March 2022	April 2022
OAWTIL	1.4437E-07	1.4437E-07	1.4437E-07	1.4437E-07

South Charleston Area: Volume Source EtO Emission Rates

Model ID	EtO Volume Emission Rate (g/s)			
	January 2022	February 2022	March 2022	April 2022
OHR2	4.0192E-04	4.0193E-04	4.0193E-04	4.0192E-04
OAR451	3.1945E-04	3.1945E-04	3.1945E-04	3.1945E-04
OAR452	3.1945E-04	3.1945E-04	3.1945E-04	3.1945E-04
OAR6	1.2924E-04	1.2924E-04	1.2924E-04	1.2924E-04
OAR7	5.6660E-05	5.6660E-05	5.6660E-05	5.6660E-05
OALIB1	4.7240E-05	4.7240E-05	4.7240E-05	4.7240E-05
OALIB2	4.7240E-05	4.7240E-05	4.7240E-05	4.7240E-05
OALIB3	4.7240E-05	4.7240E-05	4.7240E-05	4.7240E-05
THF	3.6721E-05	3.6721E-05	3.6721E-05	3.6721E-05
TRF	9.5675E-05	9.5675E-05	9.5675E-05	9.5675E-05
TFNC	4.4753E-05	4.4753E-05	4.4753E-05	4.4753E-05
CEO03F1	2.5830E-04	2.5830E-04	2.5830E-04	2.5830E-04
CEO03F2	2.5830E-04	2.5830E-04	2.5830E-04	2.5830E-04
CPIVF1	4.4099E-04	4.4099E-04	4.4099E-04	4.4099E-04
CPIVF2	4.4099E-04	4.4099E-04	4.4099E-04	4.4099E-04



Appendix E AERMOD Source Files

January Monitoring Event AERMOD Source Input: Institute

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** WVDAQ - Monitoring Event 1 **
** 2022 Event 1 Emissions **
**
** Ethylene Oxide - Institute, WV - EO Distribution and POLYOX
** Specialty Products US LLC (POLYOX plant facility 54-039-00005 )
** Polyox - Institute Point Sources
** LOCATION SOURCE ID UTM_E UTM_W ELEV (m)
LOCATION 221A POINT 431513.4933 4248834.413 181.53
LOCATION 230M POINT 432213.6261 4248385.614 181.64
LOCATION 230L POINT 432200.8493 4248393.156 181.74
LOCATION 230K POINT 432191.221 4248390.796 181.63
LOCATION 230O POINT 432192.7629 4248376.801 181.62
LOCATION 230HH POINT 432172.9967 4248384.18 181.56
** SrcID Ptemis Stkhgt Stktmp Stkvel stkdia
** (g/s) (m) (K) (m/s) (m)
SRCPARAM 221A 4.5359E-03 35.6616 866.4833333 4.81584 0.254
SRCPARAM 230M 2.5389E-03 4.572 318.15 16.608552 0.040894
SRCPARAM 230L 1.1191E-02 4.572 318.15 22.823424 0.040894
SRCPARAM 230K 2.6593E-03 4.572 318.15 51.499008 0.040894
SRCPARAM 230O 3.2759E-04 27.432 318.15 2.618232 0.200406
SRCPARAM 230HH 0 0.9144 0 4.572 0.01905
**
** BPIP Parameters
**
SO BUILDHGT 230HH 7.00 0.00 0.00 0.00 25.90 25.90
SO BUILDHGT 230HH 25.90 25.90 25.90 25.90 0.00 0.00
SO BUILDHGT 230HH 0.00 0.00 0.00 0.00 0.00 0.00
SO BUILDHGT 230HH 7.00 7.00 7.00 7.00 25.90 25.90
SO BUILDHGT 230HH 25.90 25.90 25.90 25.90 0.00 0.00
SO BUILDHGT 230HH 0.00 0.00 0.00 0.00 0.00 0.00
SO BUILDWID 230HH 48.55 0.00 0.00 0.00 22.09 24.75
SO BUILDWID 230HH 26.65 27.75 28.00 27.40 0.00 0.00
SO BUILDWID 230HH 0.00 0.00 0.00 0.00 0.00 0.00
SO BUILDWID 230HH 27.75 23.66 20.22 22.87 22.09 24.75
SO BUILDWID 230HH 26.65 27.75 28.00 27.40 0.00 0.00
SO BUILDWID 230HH 0.00 0.00 0.00 0.00 0.00 0.00
SO BUILDLEN 230HH 39.34 0.00 0.00 0.00 30.33 30.88
SO BUILDLEN 230HH 30.50 29.19 27.00 23.99 0.00 0.00
SO BUILDLEN 230HH 0.00 0.00 0.00 0.00 0.00 0.00
SO BUILDLEN 230HH 30.99 30.16 30.38 32.18 30.33 30.88
SO BUILDLEN 230HH 30.50 29.19 27.00 23.99 0.00 0.00
SO BUILDLEN 230HH 0.00 0.00 0.00 0.00 0.00 0.00
SO XBADJ 230HH 12.04 0.00 0.00 0.00 27.75 28.88
SO XBADJ 230HH 29.13 28.50 27.00 24.68 0.00 0.00
SO XBADJ 230HH 0.00 0.00 0.00 0.00 0.00 0.00
SO XBADJ 230HH -51.38 -52.20 -51.44 -51.61 -58.08 -59.77
SO XBADJ 230HH -59.64 -57.69 -54.00 -48.66 0.00 0.00
SO XBADJ 230HH 0.00 0.00 0.00 0.00 0.00 0.00
SO YBADJ 230HH -24.39 0.00 0.00 0.00 -11.48 -3.80
SO YBADJ 230HH 4.00 11.68 19.00 25.74 0.00 0.00
SO YBADJ 230HH 0.00 0.00 0.00 0.00 0.00 0.00
SO YBADJ 230HH 13.99 8.06 1.20 -6.27 11.48 3.80
SO YBADJ 230HH -4.00 -11.68 -19.00 -25.74 0.00 0.00
SO YBADJ 230HH 0.00 0.00 0.00 0.00 0.00 0.00
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SO BUILDHGT	2300	25.90	25.90	25.90	25.90	25.90	25.90
SO BUILDHGT	2300	25.90	25.90	0.00	0.00	0.00	0.00
SO BUILDHGT	2300	0.00	0.00	7.00	7.00	25.90	25.90
SO BUILDHGT	2300	25.90	25.90	25.90	25.90	25.90	25.90
SO BUILDHGT	2300	25.90	25.90	0.00	0.00	0.00	0.00
SO BUILDHGT	2300	0.00	0.00	7.00	7.00	25.90	25.90
SO BUILDWID	2300	23.99	20.24	15.88	18.76	22.09	24.28
SO BUILDWID	2300	24.28	24.28	0.00	0.00	0.00	0.00
SO BUILDWID	2300	0.00	0.00	34.85	34.60	24.28	24.28
SO BUILDWID	2300	23.99	20.24	15.88	18.76	22.09	24.28
SO BUILDWID	2300	24.28	24.28	0.00	0.00	0.00	0.00
SO BUILDWID	2300	0.00	0.00	45.30	48.35	24.28	24.28
SO BUILDLEN	2300	27.40	25.97	26.49	28.85	30.33	30.88
SO BUILDLEN	2300	30.50	29.19	0.00	0.00	0.00	0.00
SO BUILDLEN	2300	0.00	0.00	29.21	31.10	27.75	28.00
SO BUILDLEN	2300	27.40	25.97	26.49	28.85	30.33	30.88
SO BUILDLEN	2300	30.50	29.19	0.00	0.00	0.00	0.00
SO BUILDLEN	2300	0.00	0.00	49.61	49.21	27.75	28.00
SO XBADJ	2300	16.45	19.40	19.95	19.05	17.58	15.56
SO XBADJ	2300	13.08	10.19	0.00	0.00	0.00	0.00
SO XBADJ	2300	0.00	0.00	-50.36	-54.25	-36.90	-41.00
SO XBADJ	2300	-43.85	-45.37	-46.44	-47.90	-47.90	-46.44
SO XBADJ	2300	-43.58	-39.39	0.00	0.00	0.00	0.00
SO XBADJ	2300	0.00	0.00	0.76	5.03	9.16	13.00
SO YBADJ	2300	-15.59	-10.20	-4.50	1.65	7.51	13.13
SO YBADJ	2300	18.36	23.03	0.00	0.00	0.00	0.00
SO YBADJ	2300	0.00	0.00	18.57	12.53	24.79	20.50
SO YBADJ	2300	15.59	10.20	4.50	-1.65	-7.51	-13.13
SO YBADJ	2300	-18.36	-23.03	0.00	0.00	0.00	0.00
SO YBADJ	2300	0.00	0.00	-23.79	-19.40	-24.79	-20.50
SO BUILDHGT	230K	25.90	25.90	25.90	25.90	25.90	25.90
SO BUILDHGT	230K	25.90	25.90	25.90	25.90	25.90	25.90
SO BUILDHGT	230K	25.90	25.90	25.90	25.90	25.90	25.90
SO BUILDHGT	230K	25.90	25.90	25.90	25.90	25.90	25.90
SO BUILDHGT	230K	25.90	25.90	25.90	25.90	25.90	25.90
SO BUILDHGT	230K	25.90	25.90	25.90	25.90	25.90	25.90
SO BUILDWID	230K	23.99	20.24	15.88	18.76	22.09	24.75
SO BUILDWID	230K	26.65	27.75	28.00	27.40	25.97	26.49
SO BUILDWID	230K	28.85	30.33	30.88	30.50	29.19	27.00
SO BUILDWID	230K	23.99	20.24	15.88	18.76	22.09	24.75
SO BUILDWID	230K	26.65	27.75	28.00	27.40	25.97	26.49
SO BUILDWID	230K	28.85	30.33	30.88	30.50	29.19	27.00
SO BUILDLEN	230K	27.40	25.97	26.49	28.85	30.33	30.88
SO BUILDLEN	230K	30.50	29.19	27.00	23.99	20.24	15.88
SO BUILDLEN	230K	18.76	22.09	24.75	26.65	27.75	28.00
SO BUILDLEN	230K	27.40	25.97	26.49	28.85	30.33	30.88
SO BUILDLEN	230K	30.50	29.19	27.00	23.99	20.24	15.88
SO BUILDLEN	230K	18.76	22.09	24.75	26.65	27.75	28.00
SO XBADJ	230K	2.84	6.58	8.33	8.97	9.34	9.43
SO XBADJ	230K	9.23	8.75	8.00	7.01	5.81	4.43
SO XBADJ	230K	-1.27	-7.18	-12.88	-18.19	-22.94	-27.00
SO XBADJ	230K	-30.24	-32.55	-34.82	-37.82	-39.67	-40.31
SO XBADJ	230K	-39.73	-37.94	-35.00	-31.00	-26.05	-20.31
SO XBADJ	230K	-17.50	-14.91	-11.87	-8.46	-4.81	-1.00
SO YBADJ	230K	-19.00	-15.93	-12.37	-8.11	-3.86	0.51
SO YBADJ	230K	4.86	9.07	13.00	16.54	19.57	21.58
SO YBADJ	230K	23.40	24.50	24.87	24.48	23.34	21.50



SO YBADJ	230K	19.00	15.93	12.37	8.11	3.86	-0.51
SO YBADJ	230K	-4.86	-9.07	-13.00	-16.54	-19.57	-21.58
SO YBADJ	230K	-23.40	-24.50	-24.87	-24.48	-23.34	-21.50

SO BUILDHGT	230L	25.90	25.90	25.90	25.90	25.90	25.90
SO BUILDHGT	230L	25.90	25.90	25.90	25.90	25.90	25.90
SO BUILDHGT	230L	25.90	25.90	25.90	25.90	25.90	25.90
SO BUILDHGT	230L	25.90	25.90	25.90	25.90	25.90	25.90
SO BUILDHGT	230L	25.90	25.90	25.90	25.90	25.90	25.90
SO BUILDHGT	230L	25.90	25.90	25.90	25.90	25.90	25.90
SO BUILDWID	230L	23.99	20.24	15.88	18.76	22.09	24.75
SO BUILDWID	230L	26.65	27.75	28.00	27.40	25.97	26.49
SO BUILDWID	230L	28.85	30.33	30.88	30.50	29.19	27.00
SO BUILDWID	230L	23.99	20.24	15.88	18.76	22.09	24.75
SO BUILDWID	230L	26.65	27.75	28.00	27.40	25.97	26.49
SO BUILDWID	230L	28.85	30.33	30.88	30.50	29.19	27.00
SO BUILDLEN	230L	27.40	25.97	26.49	28.85	30.33	30.88
SO BUILDLEN	230L	30.50	29.19	27.00	23.99	20.24	15.88
SO BUILDLEN	230L	18.76	22.09	24.75	26.65	27.75	28.00
SO BUILDLEN	230L	27.40	25.97	26.49	28.85	30.33	30.88
SO BUILDLEN	230L	30.50	29.19	27.00	23.99	20.24	15.88
SO BUILDLEN	230L	18.76	22.09	24.75	26.65	27.75	28.00
SO XBADJ	230L	-1.68	0.69	1.23	0.89	0.52	0.13
SO XBADJ	230L	-0.26	-0.64	-1.00	-1.33	-1.62	-1.87
SO XBADJ	230L	-6.23	-10.67	-14.78	-18.45	-21.55	-24.00
SO XBADJ	230L	-25.72	-26.66	-27.72	-29.74	-30.84	-31.02
SO XBADJ	230L	-30.25	-28.56	-26.00	-22.65	-18.62	-14.02
SO XBADJ	230L	-12.53	-11.42	-9.96	-8.21	-6.20	-4.00
SO YBADJ	230L	-10.66	-8.50	-6.08	-3.15	-0.37	2.41
SO YBADJ	230L	5.12	7.68	10.00	12.02	13.67	14.48
SO YBADJ	230L	15.31	15.68	15.58	15.00	13.96	12.50
SO YBADJ	230L	10.66	8.50	6.08	3.15	0.37	-2.41
SO YBADJ	230L	-5.12	-7.68	-10.00	-12.02	-13.67	-14.48
SO YBADJ	230L	-15.31	-15.68	-15.58	-15.00	-13.96	-12.50

SO BUILDHGT	230M	25.90	25.90	25.90	25.90	25.90	25.90
SO BUILDHGT	230M	25.90	25.90	25.90	25.90	25.90	25.90
SO BUILDHGT	230M	25.90	25.90	25.90	25.90	25.90	25.90
SO BUILDHGT	230M	25.90	25.90	25.90	25.90	25.90	25.90
SO BUILDHGT	230M	25.90	25.90	25.90	25.90	25.90	25.90
SO BUILDHGT	230M	25.90	25.90	25.90	25.90	25.90	25.90
SO BUILDWID	230M	23.99	20.24	15.88	18.76	22.09	24.75
SO BUILDWID	230M	26.65	27.75	28.00	27.40	25.97	26.49
SO BUILDWID	230M	28.85	30.33	30.88	30.50	29.19	27.00
SO BUILDWID	230M	23.99	20.24	15.88	18.76	22.09	24.75
SO BUILDWID	230M	26.65	27.75	28.00	27.40	25.97	26.49
SO BUILDWID	230M	28.85	30.33	30.88	30.50	29.19	27.00
SO BUILDLEN	230M	27.40	25.97	26.49	28.85	30.33	30.88
SO BUILDLEN	230M	30.50	29.19	27.00	23.99	20.24	15.88
SO BUILDLEN	230M	18.76	22.09	24.75	26.65	27.75	28.00
SO BUILDLEN	230M	27.40	25.97	26.49	28.85	30.33	30.88
SO BUILDLEN	230M	30.50	29.19	27.00	23.99	20.24	15.88
SO BUILDLEN	230M	18.76	22.09	24.75	26.65	27.75	28.00
SO XBADJ	230M	3.94	3.76	1.66	-1.34	-4.30	-7.12
SO XBADJ	230M	-9.74	-12.05	-14.00	-15.52	-16.58	-17.12
SO XBADJ	230M	-21.34	-25.16	-28.21	-30.41	-31.69	-32.00
SO XBADJ	230M	-31.34	-29.73	-28.15	-27.51	-26.03	-23.76
SO XBADJ	230M	-20.77	-17.14	-13.00	-8.46	-3.67	1.24



SO	XBADJ	230M	2.57	3.06	3.46	3.76	3.94	4.00
SO	YBADJ	230M	3.53	6.46	9.18	11.95	14.11	15.84
SO	YBADJ	230M	17.09	17.81	18.00	17.64	16.74	14.91
SO	YBADJ	230M	13.08	10.87	8.32	5.52	2.55	-0.50
SO	YBADJ	230M	-3.53	-6.46	-9.18	-11.95	-14.11	-15.84
SO	YBADJ	230M	-17.09	-17.81	-18.00	-17.64	-16.74	-14.91
SO	YBADJ	230M	-13.08	-10.87	-8.32	-5.52	-2.55	0.50

SO	BUILDHGT	221A	0.00	0.00	0.00	0.00	0.00	0.00
SO	BUILDHGT	221A	0.00	0.00	0.00	0.00	0.00	0.00
SO	BUILDHGT	221A	0.00	0.00	0.00	0.00	0.00	0.00
SO	BUILDHGT	221A	0.00	0.00	0.00	0.00	0.00	0.00
SO	BUILDHGT	221A	0.00	0.00	0.00	0.00	0.00	0.00
SO	BUILDWID	221A	0.00	0.00	0.00	0.00	0.00	0.00
SO	BUILDWID	221A	0.00	0.00	0.00	0.00	0.00	0.00
SO	BUILDWID	221A	0.00	0.00	0.00	0.00	0.00	0.00
SO	BUILDWID	221A	0.00	0.00	0.00	0.00	0.00	0.00
SO	BUILDWID	221A	0.00	0.00	0.00	0.00	0.00	0.00
SO	BUILDLEN	221A	0.00	0.00	0.00	0.00	0.00	0.00
SO	BUILDLEN	221A	0.00	0.00	0.00	0.00	0.00	0.00
SO	BUILDLEN	221A	0.00	0.00	0.00	0.00	0.00	0.00
SO	BUILDLEN	221A	0.00	0.00	0.00	0.00	0.00	0.00
SO	BUILDLEN	221A	0.00	0.00	0.00	0.00	0.00	0.00
SO	XBADJ	221A	0.00	0.00	0.00	0.00	0.00	0.00
SO	XBADJ	221A	0.00	0.00	0.00	0.00	0.00	0.00
SO	XBADJ	221A	0.00	0.00	0.00	0.00	0.00	0.00
SO	XBADJ	221A	0.00	0.00	0.00	0.00	0.00	0.00
SO	XBADJ	221A	0.00	0.00	0.00	0.00	0.00	0.00
SO	YBADJ	221A	0.00	0.00	0.00	0.00	0.00	0.00
SO	YBADJ	221A	0.00	0.00	0.00	0.00	0.00	0.00
SO	YBADJ	221A	0.00	0.00	0.00	0.00	0.00	0.00
SO	YBADJ	221A	0.00	0.00	0.00	0.00	0.00	0.00
SO	YBADJ	221A	0.00	0.00	0.00	0.00	0.00	0.00

** Polyox - Institute Fugitive Sources

** Srcid Srctyp Xs Ys Zs

LOCATION POLYVOL1 VOLUME 432175 4248394 181.6

** Srcid vlemis Relhgt Syint Szint

SRCPARAM POLYVOL1 1.0338E-03 4.572 3.023255814 4.253023256

** Srcid Srctyp Xs Ys Zs

LOCATION BL8389A1 VOLUME 432195 4248382 181.66

LOCATION BL8389A2 VOLUME 432191 4248374 181.66

LOCATION BL8389B1 VOLUME 432195 4248382 181.66

LOCATION BL8389B2 VOLUME 432191 4248374 181.66

** Srcid vlemis Relhgt Syint Szint

SRCPARAM BL8389A1 3.1487E-05 13.716 3.990697674 2.126511628

SRCPARAM BL8389A2 3.1487E-05 13.716 3.990697674 2.126511628

SRCPARAM BL8389B1 1.0966E-04 22.86 3.990697674 2.126511628

SRCPARAM BL8389B2 1.0966E-04 22.86 3.990697674 2.126511628

** EO Distribution - Institute, WV

** Point Sources



```
** Srcid Srctyp Xs Ys Zs
LOCATION EODISTFL POINT 431659.87 4248946.05 181.6
** SrcID Ptemis Stkhgt Stktmp Stkvel Stkdia
SRCPARAM EODISTFL 2.9490E-03 27.432 866.4833333 8.6868 0.100584
** Fugitive Sources
** Railcar Unloading
** Srcid Srctyp Xs Ys Zs
LOCATION Rail1 VOLUME 431609 4248856 182.332
LOCATION Rail2 VOLUME 431616 4248851 182.332
LOCATION Rail3 VOLUME 431624 4248847 182.332
LOCATION Rail4 VOLUME 431632 4248843 182.332
LOCATION Rail5 VOLUME 431640 4248837 182.332
** Srcid Vlemis Relhgt Syint Szint
SRCPARAM Rail1 0.00039555 5.62002432 4.76744186 0.34568573
SRCPARAM Rail2 0.00039555 5.62002432 4.76744186 0.34568573
SRCPARAM Rail3 0.00039555 5.62002432 4.76744186 0.34568573
SRCPARAM Rail4 0.00039555 5.62002432 4.76744186 0.34568573
SRCPARAM Rail5 0.00039555 5.62002432 4.76744186 0.34568573
** Pumps/Diked Area
** Srcid Srctyp Xs Ys Zs
LOCATION PUMP1 VOLUME 431612 4248893 182.55
LOCATION PUMP2 VOLUME 431620 4248889 182.55
LOCATION PUMP3 VOLUME 431630 4248884 182.55
** Srcid Vlemis Relhgt Syint Szint
SRCPARAM PUMP1 0.0010703 2.4384 5.576744186 0.567069767
SRCPARAM PUMP2 0.0010703 2.4384 5.576744186 0.567069767
SRCPARAM PUMP3 0.0010703 2.4384 5.576744186 0.567069767
** Tanks Area
** Srcid Srctyp Xs Ys Zs
LOCATION TANKS1 VOLUME 431587 4248907 182.76
LOCATION TANKS2 VOLUME 431599 4248903 182.76
** Srcid Vlemis Relhgt Syint Szint
SRCPARAM TANKS1 0.00090102 5.4864 5.786046512 0.283534884
SRCPARAM TANKS2 0.00090102 5.4864 5.786046512 0.283534884
** Flare Area
** Srcid Srctyp Xs Ys Zs
LOCATION FLAREFU1 VOLUME 431658 4248944 182.87
LOCATION FLAREFU2 VOLUME 431653 4248936 182.87
** Srcid Vlemis Relhgt Syint Szint
SRCPARAM FLAREFU1 2.3689E-04 2.4384 3.688372093 0.283534884
SRCPARAM FLAREFU2 2.3689E-04 2.4384 3.688372093 0.283534884
** Area Near Rt. 25
** Srcid Srctyp Xs Ys Zs
LOCATION R251 VOLUME 431873 4249163 183.655
LOCATION R252 VOLUME 431877 4249161 183.655
** Srcid Vlemis Relhgt Syint Szint
SRCPARAM R251 5.7806E-05 1.0668 1.8 0.354418605
SRCPARAM R252 5.7806E-05 1.0668 1.8 0.354418605
**
** EO DISTRIBUTION Source Groups
** Point Source Groups
SRCGROUP EODISTFL EODISTFL
SRCGROUP EODPOINT EODISTFL
** Fugitive Source Groups
SRCGROUP EODRAILF Rail1 Rail2 Rail3 Rail4 Rail5
SRCGROUP EODPUMPF PUMP1 PUMP2 PUMP3
SRCGROUP EODTANKF TANKS1 TANKS2
SRCGROUP EODFLARF FLAREFU1 FLAREFU2
SRCGROUP EODR25F R251 R252
SRCGROUP EODFUGI Rail1 Rail2 Rail3 Rail4 Rail5 PUMP1 PUMP2 PUMP3
```



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SRCGROUP EODFUGI TANKS1 TANKS2 FLAREFU1 FLAREFU2 R251 R252
** EO DISTRIBUTION ALL (Point and Fugitive)
SRCGROUP EODIST EODISTFL
SRCGROUP EODIST Rail1 Rail2 Rail3 Rail4 Rail5 PUMP1 PUMP2 PUMP3
SRCGROUP EODIST TANKS1 TANKS2 FLAREFU1 FLAREFU2 R251 R252
**
** Polyox Source Groups
** Point Source Groups
**
SRCGROUP 221A 221A
SRCGROUP 230M 230M
SRCGROUP 230L 230L
SRCGROUP 230K 230K
SRCGROUP 230O 230O
SRCGROUP 230HH 230HH
SRCGROUP PPOINT 221A 230M 230L 230K 230O 230HH
**
** Fugitive Source Groups
**
SRCGROUP POLYVOL1 POLYVOL1
SRCGROUP PBL8389 BL8389A1 BL8389A2 BL8389B1 BL8389B2
SRCGROUP PFUGIT POLYVOL1 BL8389A1 BL8389A2 BL8389B1 BL8389B2
**
** POLYOX All Source Groups (Point and Fugitive)
**
SRCGROUP POLYOX 221A 230M 230L 230K 230O 230HH
SRCGROUP POLYOX POLYVOL1 BL8389A1 BL8389A2 BL8389B1 BL8389B2
```



January Monitoring Event AERMOD Source Input: South Charleston

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**Ethylene oxide - South Charleston, WV Monitoring Event #1 (Jan 25-26, 2022)
**Oxide Adducts; Triton; Covestro; Chemical Mixing
*****
**
**
** Ethylene Oxide - ALL South Charleston, WV Process Areas
**
*****
*****
** Union Carbide Corporation - Oxide Adducts - Plant ID 03900003
** Oxide Adducts Point Sources
**
** Srcid Srctyp Xs Ys Zs
SO LOCATION E704 POINT 439727.0898 4247132.136 181.84
SO LOCATION E705 POINT 439676.2355 4247142.393 182.66
SO LOCATION E706 POINT 439676.2355 4247142.393 182.66
SO LOCATION E707 POINT 439711.3862 4247111.614 184.05
SO LOCATION E708 POINT 439675.5865 4247090.687 184.41
**
** SrcID Ptemis Stkhgt Stktmp Stkvel Stkdia
** (g/s) (m) (K) (m/s) (m)
SO SRCPARAM E704 0 9.144 353.15 65.61836 0.024384
SO SRCPARAM E705 0 9.144 353.15 65.61836 0.024384
SO SRCPARAM E706 0 9.144 353.15 65.61836 0.024384
SO SRCPARAM E707 0 10.9728 353.15 49.1744 0.024384
SO SRCPARAM E708 0 12.192 353.15 18.53184 0.039624
**
** Srcid Srctyp Xs Ys Zs
SO LOCATION T9120 POINT 439685.8352 4247106.035 184.07
SO LOCATION T9121 POINT 439685.8352 4247106.035 184.07
SO LOCATION T9128 POINT 439723.4114 4247107.529 183.89
SO LOCATION T9129 POINT 439723.4114 4247107.529 183.89
SO LOCATION T9151 POINT 439694.594 4247109.076 184.05
SO LOCATION T9180 POINT 439706.8896 4247106.099 184.25
SO LOCATION T9181 POINT 439706.8896 4247106.099 184.25
SO LOCATION T9182 POINT 439706.8896 4247106.099 184.25
SO LOCATION T9186 POINT 439666.5424 4247084.54 184.3
SO LOCATION T9187 POINT 439666.5424 4247084.54 184.3
SO LOCATION T9223 POINT 439665.6512 4247093.868 184.07
SO LOCATION T9228 POINT 439694.3836 4247104.306 184.13
SO LOCATION T9502 POINT 439720.7695 4247128.078 183.17
SO LOCATION T9504 POINT 439679.6315 4247140.925 183.01
SO LOCATION T9505 POINT 439678.6308 4247135.606 183.28
SO LOCATION T9507 POINT 438886.7718 4136148.361 183.29
SO LOCATION T9509 POINT 439638.2105 4247104.283 183.92
SO LOCATION T9510 POINT 439647.5443 4247102.437 183.85
SO LOCATION T9511 POINT 439649.2697 4247111.191 183.78
SO LOCATION T9512 POINT 439655.838 4247113.361 183.74
SO LOCATION T9553 POINT 439767.2389 4247080.458 183.94
SO LOCATION T9554 POINT 439773.7782 4247078.745 183.94
SO LOCATION T9555 POINT 439773.7782 4247078.745 183.94
SO LOCATION T9556 POINT 439758.9003 4247075.194 183.97
SO LOCATION T9562 POINT 439747.3508 4247084.491 184.17
SO LOCATION T9563 POINT 439744.9134 4247073.967 184.24
SO LOCATION T9565 POINT 439773.6592 4247051.115 184.38
SO LOCATION T9568 POINT 439775.3753 4247058.648 184.32
SO LOCATION T9569 POINT 439794.994 4247053.619 184.22
SO LOCATION T9612 POINT 439717.9824 4247129.208 183.23
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SO LOCATION T9614 POINT 439684.0875 4247141.002 182.55
SO LOCATION T9615 POINT 439681.9445 4247134.804 183.22
SO LOCATION T9616 POINT 439666.5424 4247084.54 184.3
SO LOCATION T9617 POINT 439717.7941 4247104.02 184.24
SO LOCATION T9619 POINT 439654.9674 4247137.114 183.34
SO LOCATION T9622 POINT 439717.9824 4247129.208 183.23
SO LOCATION T9624 POINT 439684.0875 4247141.002 182.55
SO LOCATION T9625 POINT 439681.9445 4247134.804 183.22
SO LOCATION T9627 POINT 439717.7941 4247104.02 184.24
SO LOCATION T9629 POINT 439654.9674 4247137.114 183.34
SO LOCATION T9632 POINT 439805.7771 4246976.749 184.65
SO LOCATION T9634 POINT 439779.5329 4247018.78 184.65
SO LOCATION T9635 POINT 439775.4267 4247007.048 184.61
SO LOCATION T9637 POINT 439801.5726 4247045.469 184.47
SO LOCATION T9640 POINT 439800.0875 4247045.48 184.46
SO LOCATION T9643 POINT 439793.4584 4247046.861 184.31
SO LOCATION T9645 POINT 439793.4584 4247046.861 184.31
SO LOCATION T9646 POINT 439788.6277 4247055.109 184.21
SO LOCATION T9649 POINT 439780.6377 4247049.731 184.31
SO LOCATION T9734 POINT 439644.6571 4247125.207 183.55
SO LOCATION T9736 POINT 439648.584 4247124.623 183.58
SO LOCATION T9738 POINT 439652.1564 4247123.376 183.57
SO LOCATION T9749 POINT 439718.7008 4247108.452 184.03
SO LOCATION T9798 POINT 439726.2124 4247119.936 183.28
SO LOCATION T9812 POINT 439704.6444 4247132.97 182.55
SO LOCATION T9814 POINT 439697.2524 4247137.464 181.85
SO LOCATION T9815 POINT 439696.1627 4247131.924 183.06
SO LOCATION T9822 POINT 439704.6444 4247132.97 182.55
SO LOCATION T9824 POINT 439697.2524 4247137.464 181.85
SO LOCATION T9825 POINT 439696.1627 4247131.924 183.06
**
** SrcID Ptemis Stkhgt Stktmp Stkvel Stkdia
** (g/s) (m) (K) (m/s) (m)
SO SRCPARAM T9120 1.6952E-06 6.7056 0 0.099579281 0.2032
SO SRCPARAM T9121 1.6952E-06 6.7056 0 0.099579281 0.2032
SO SRCPARAM T9128 1.6952E-06 7.3152 0 0.101393412 0.1524
SO SRCPARAM T9129 1.6952E-06 7.3152 0 0.099579281 0.2032
SO SRCPARAM T9151 0 5.4864 0 0.077032657 0.1016
SO SRCPARAM T9180 1.6952E-06 7.62 0 0.099579281 0.2032
SO SRCPARAM T9181 1.6952E-06 7.62 0 0.099579281 0.2032
SO SRCPARAM T9182 0 7.62 0 0.099579281 0.2032
SO SRCPARAM T9186 1.6952E-06 18.8976 0 0.099579281 0.2032
SO SRCPARAM T9187 1.6952E-06 18.8976 0 0.099579281 0.2032
SO SRCPARAM T9223 0 6.4008 0 0.099579281 0.2032
SO SRCPARAM T9228 0 5.7912 0 0.099579281 0.2032
SO SRCPARAM T9502 1.6952E-06 13.716 0 0.099579281 0.2032
SO SRCPARAM T9504 1.6952E-06 13.716 0 0.099579281 0.2032
SO SRCPARAM T9505 0 13.716 0 0.099579281 0.2032
SO SRCPARAM T9507 0 5.4864 0 0.099579281 0.2032
SO SRCPARAM T9509 1.6952E-06 9.144 0 0.14591763 0.2032
SO SRCPARAM T9510 1.6952E-06 9.144 0 0.0068962 0.508
SO SRCPARAM T9511 1.6952E-06 9.144 0 0.326648095 0.1016
SO SRCPARAM T9512 1.6952E-06 9.144 0 0.40442145 0.1016
SO SRCPARAM T9553 1.6952E-06 18.8976 0 0.063048267 0.254
SO SRCPARAM T9554 1.6952E-06 18.8976 0 0.101846061 0.2032
SO SRCPARAM T9555 1.6952E-06 18.8976 0 0.154846751 0.2032
SO SRCPARAM T9556 1.6952E-06 18.8976 0 0.106290253 0.2032
SO SRCPARAM T9562 1.6952E-06 9.7536 0 0.022369099 0.508
SO SRCPARAM T9563 1.6952E-06 9.7536 0 0.019672956 0.508
SO SRCPARAM T9565 1.6952E-06 6.7056 0 0.079639916 0.254
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SO SRCPARAM T9568 1.6952E-06 6.7056 0 0.031572279 0.4064
SO SRCPARAM T9569 1.6952E-06 7.62 0 0.044441918 0.2032
SO SRCPARAM T9612 1.6952E-06 13.4112 0 0.099579281 0.2032
SO SRCPARAM T9614 1.6952E-06 13.716 0 0.037034931 0.2032
SO SRCPARAM T9615 1.6952E-06 13.716 0 0.099579281 0.2032
SO SRCPARAM T9616 1.6952E-06 18.8976 0 0.144362162 0.2032
SO SRCPARAM T9617 1.6952E-06 18.8976 0 0.110610995 0.1524
SO SRCPARAM T9619 1.6952E-06 19.5072 0 0.132733194 0.2032
SO SRCPARAM T9622 1.6952E-06 13.4112 0 0.099579281 0.2032
SO SRCPARAM T9624 1.6952E-06 13.716 0 0.108142 0.2032
SO SRCPARAM T9625 1.6952E-06 13.716 0 0.099579281 0.2032
SO SRCPARAM T9627 0 18.8976 0 0.099579281 0.2032
SO SRCPARAM T9629 1.6952E-06 19.5072 0 0.148139725 0.2032
SO SRCPARAM T9632 1.6952E-06 6.096 0 0.2696143 0.1016
SO SRCPARAM T9634 1.6952E-06 6.4008 0 0.222209588 0.1016
SO SRCPARAM T9635 1.6952E-06 6.4008 0 0.303686437 0.1016
SO SRCPARAM T9637 1.6952E-06 7.62 0 0.123120572 0.1524
SO SRCPARAM T9640 1.6952E-06 7.62 0 0.207395616 0.1524
SO SRCPARAM T9643 0 7.62 0 0.089871433 0.1524
SO SRCPARAM T9645 0 7.62 0 0.121803774 0.1524
SO SRCPARAM T9646 1.6952E-06 7.62 0 0.241467752 0.1016
SO SRCPARAM T9649 1.6952E-06 7.62 0 0.199988629 0.1016
SO SRCPARAM T9734 1.6952E-06 5.4864 0 0.598333059 0.1524
SO SRCPARAM T9736 1.6952E-06 5.4864 0 0.579061727 0.1524
SO SRCPARAM T9738 1.6952E-06 4.8768 0 0.015507266 0.508
SO SRCPARAM T9749 1.6952E-06 7.9248 0 0.185997655 0.1524
SO SRCPARAM T9798 1.6952E-06 6.4008 0 0.099579281 0.2032
SO SRCPARAM T9812 1.6952E-06 15.24 0 0.099579281 0.2032
SO SRCPARAM T9814 1.6952E-06 13.716 0 0.099579281 0.2032
SO SRCPARAM T9815 1.6952E-06 15.24 0 0.099579281 0.2032
SO SRCPARAM T9822 1.6952E-06 15.24 0 0.099579281 0.2032
SO SRCPARAM T9824 1.6952E-06 13.716 0 0.099579281 0.2032
SO SRCPARAM T9825 1.6952E-06 15.24 0 0.099579281 0.2032
**
** Srcid Srctyp Xs Ys Zs
SO LOCATION L001TT1 POINT 439641.71 4247081.619 184.31
SO LOCATION L001TT2 POINT 439662.8977 4247076.134 184.44
SO LOCATION L001TT3 POINT 439673.8979 4247075.164 184.49
SO LOCATION L001TT4 POINT 439683.3865 4247070.654 184.58
SO LOCATION L001TT5 POINT 439694.4766 4247070.017 184.47
SO LOCATION L001TT6 POINT 439706.0709 4247066.712 184.51
**
** SrcID Ptemis Stkhgt Stktmp Stkvel Stkdia
** (g/s) (m) (K) (m/s) (m)
SO SRCPARAM L001TT1 1.6952E-06 3.6576 0 0.024902038 0.508
SO SRCPARAM L001TT2 1.6952E-06 3.6576 0 0.024902038 0.508
SO SRCPARAM L001TT3 0 3.6576 0 0.024902038 0.508
SO SRCPARAM L001TT4 0 3.6576 0 0.024902038 0.508
SO SRCPARAM L001TT5 0 3.6576 0 0.024902038 0.508
SO SRCPARAM L001TT6 0 3.6576 0 0.024902038 0.508
**
** Oxide Adducts Fugitive Sources
** EO Header and Reactor 2
** Srcid Srctyp Xs Ys Zs
SO LOCATION OAH2 VOLUME 439731 4247128 182.63
** Srcid Vlemis Relhgt Syint Szint
SO SRCPARAM OAH2 4.0192E-04 4.8768 2.872093023 1.984744186
** Reactors 4 and 5
** Srcid Srctyp Xs Ys Zs
SO LOCATION OAR451 VOLUME 439674 4247142 183
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SO LOCATION OAR452 VOLUME 439672 4247137 183
** Srcid Vlemis Relhgt Syint Szint
SO SRCPARAM OAR451 0.00031945 8.5344 2.125581395 0.283534884
SO SRCPARAM OAR452 0.00031945 8.5344 2.125581395 0.283534884
** Reactor 6
** Srcid Srctyp Xs Ys Zs
SO LOCATION OAR6 VOLUME 439676 4247091 184.41
** Srcid Vlemis Relhgt Syint Szint
SO SRCPARAM OAR6 0.00012924 7.62 0.972093023 2.126511628
** Reactor 7
** Srcid Srctyp Xs Ys Zs
SO LOCATION OAR7 VOLUME 439713 4247110 184.27
** Srcid Vlemis Relhgt Syint Szint
SO SRCPARAM OAR7 0.000056660 7.7724 0.739534884 2.197395349
**

** Western Tip of Island - Modeled as a LINE source
** Srcid Srctyp Xs1 Ys1 Xs2 Ys2 Zs
SO LOCATION OAWTIL LINE 439166 4247407 439631 4247325 181.0666667
** Srcid Lnemis Relhgt width (Szint)
SO SRCPARAM OAWTIL 1.44372E-07 0 3.47 3.6576
**

** Lower Island Bridge
** Srcid Srctyp Xs Ys Zs
SO LOCATION OALIB1 VOLUME 439762 4247237 176.33
SO LOCATION OALIB2 VOLUME 439767 4247235 176.33
SO LOCATION OALIB3 VOLUME 439773 4247233 176.33
** Srcid Vlemis Relhgt Syint Szint
SO SRCPARAM OALIB1 0.000047240 2.4384 2.63255814 0.850604651
SO SRCPARAM OALIB2 0.000047240 2.4384 2.63255814 0.850604651
SO SRCPARAM OALIB3 0.000047240 2.4384 2.63255814 0.850604651
**
*****
** "TRITON - DOW/UCC - South Charleston WV - ALL Sources (Point and
Fugitive)"
**
** "TRITON - South Charleston WV - Point Sources"
**
** Srcid Srctyp Xs Ys Zs
SO LOCATION E10813 POINT 440122.4085 4247192.775 181.87
SO LOCATION L001 POINT 440069.2126 4247170.089 181.81
SO LOCATION L002 POINT 440087.0074 4247142.992 181.97
SO LOCATION L003 POINT 440147.9003 4247214.002 181.71
SO LOCATION L004 POINT 440086.0755 4247182.17 181.83
SO LOCATION T8313 POINT 440078.357 4247189.773 182.04
SO LOCATION T8314 POINT 440074.9575 4247190.797 181.96
SO LOCATION T8320 POINT 440095.3977 4247190.534 181.87
SO LOCATION T8322 POINT 440084.5831 4247192.945 181.84
SO LOCATION T8323 POINT 440079.3443 4247193.317 181.94
SO LOCATION T8331 POINT 440111.855 4247195.073 181.87
SO LOCATION T8334 POINT 440076.4945 4247197.777 181.8
SO LOCATION T8343 POINT 440081.8735 4247204.506 181.89
SO LOCATION T8344 POINT 440078.4716 4247205.197 181.86
SO LOCATION T8360 POINT 440099.7218 4247208.146 181.85
SO LOCATION T8361 POINT 440094.4023 4247209.406 181.84
SO LOCATION T8363 POINT 440083.586 4247211.595 181.93
SO LOCATION T8364 POINT 440080.0976 4247212.397 181.92
SO LOCATION T8373 POINT 440083.9 4247218.583 181.8
SO LOCATION T8380 POINT 440101.8901 4247217.784 181.91
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SO LOCATION T8381 POINT 440097.2685 4247218.928 181.85
SO LOCATION T8383 POINT 440084.9779 4247222.57 181.77
SO LOCATION T8390 POINT 440103.0587 4247222.214 181.85
SO LOCATION T8391 POINT 440098.4404 4247223.802 181.79
SO LOCATION T8392 POINT 440092.5967 4247225.066 181.76
SO LOCATION T8393 POINT 440085.9685 4247226.558 181.77
SO LOCATION T8420 POINT 440130.2721 4247192.938 181.87
** SrcID Ptemis Stkhgt Stktmp Stkvel Stkdia
** (g/s) (m) (K) (m/s) (m)
SO SRCPARAM E10813 4.7249E-04 22.86 313.15 0.402880745 0.2115312
SO SRCPARAM L001 2.0799E-05 3.6576 333.15 0.024902038 0.508
SO SRCPARAM L002 2.0799E-05 8.2296 333.15 0.038909435 0.2032
SO SRCPARAM L003 2.0799E-05 3.6576 333.15 0.024902038 0.508
SO SRCPARAM L004 2.0799E-05 3.6576 333.15 0.024902038 0.508
SO SRCPARAM T8313 1.1606E-05 14.0208 0 0.708119332 0.0762
SO SRCPARAM T8314 1.1606E-05 14.0208 0 0.708119332 0.0762
SO SRCPARAM T8320 1.1606E-05 10.668 0 0.708119332 0.0762
SO SRCPARAM T8322 1.1606E-05 7.1628 0 0.708119332 0.0762
SO SRCPARAM T8323 1.1606E-05 15.5448 0 0.177029833 0.1524
SO SRCPARAM T8331 1.1606E-05 6.7056 0 0.708119332 0.0762
SO SRCPARAM T8334 1.1606E-05 15.5448 0 0.177029833 0.1524
SO SRCPARAM T8343 1.1606E-05 15.5448 0 0.101601144 0.201168
SO SRCPARAM T8344 1.1606E-05 15.5448 0 0.177029833 0.1524
SO SRCPARAM T8360 1.1606E-05 5.7404 0 0.406404575 0.100584
SO SRCPARAM T8361 1.1606E-05 5.7404 0 0.708119332 0.0762
SO SRCPARAM T8363 1.1606E-05 15.5448 0 0.101601144 0.201168
SO SRCPARAM T8364 1.1606E-05 15.5448 0 0.101601144 0.201168
SO SRCPARAM T8373 1.1606E-05 8.9916 0 0.177029833 0.1524
SO SRCPARAM T8380 1.1606E-05 10.668 0 1.53139994 0.051816
SO SRCPARAM T8381 1.1606E-05 10.668 0 1.53139994 0.051816
SO SRCPARAM T8383 1.1606E-05 8.634984 0 0.406404575 0.100584
SO SRCPARAM T8390 1.1606E-05 10.668 0 0.708119332 0.0762
SO SRCPARAM T8391 1.1606E-05 10.668 0 0.708119332 0.0762
SO SRCPARAM T8392 1.1606E-05 10.567416 0 0.406404575 0.100584
SO SRCPARAM T8393 1.1606E-05 9.144 0 0.708119332 0.0762
SO SRCPARAM T8420 1.1606E-05 22.86 0 2.618784513 0.039624
**
** "TRITON - South Charleston WV - Fugitive Sources"
**
** Triton Header Fugitives - THF
** Srcid Srctyp Xs Ys Zs
SO LOCATION THF VOLUME 440132 4247228 180.81
** Srcid Vlemis Relhgt Syint Szint
SO SRCPARAM THF 3.6721E-05 1.8288 1.174418605 0.567069767
**
** Triton Reactor Fugitives - TRF
** Srcid Srctyp Xs Ys Zs
SO LOCATION TRF VOLUME 440122 4247181 181.79
** Srcid Vlemis Relhgt Syint Szint
SO SRCPARAM TRF 0.000095675 9.144 1.909302326 1.417674419
**
** Triton Fugitives Near Covestro - TFNC
** Srcid Srctyp Xs Ys Zs
SO LOCATION TFNC VOLUME 439987 4247262 180.53
** Srcid Vlemis Relhgt Syint Szint
SO SRCPARAM TFNC 4.4753E-05 1.2192 0.741860465 0.283534884
**
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*****
** Covestro - South Charleston, WV
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** Ethylene Oxide - All Sources - Point and Fugitive
** Covestro Fugitive Sources
** Covestro E003 Fugitives - CE003F
** Srcid Srctyp Xs Ys Zs
SO LOCATION CE003F1 VOLUME 439941 4247253 181.825
SO LOCATION CE003F2 VOLUME 439935 4247225 181.825
** Srcid Vlemis Relhgt Syint Szint
SO SRCPARAM CE003F1 2.5830E-04 10.0584 13.02325581 2.410046512
SO SRCPARAM CE003F2 2.5830E-04 10.0584 13.02325581 2.410046512

** Covestro PhaseIV Fugitives - CPIVF
** Srcid Srctyp Xs Ys Zs
SO LOCATION CPIVF1 VOLUME 440271 4247100 181.78
SO LOCATION CPIVF2 VOLUME 440293 4247096 181.78
** Srcid Vlemis Relhgt Syint Szint
SO SRCPARAM CPIVF1 4.4099E-04 6.096 11.1627907 2.126511628
SO SRCPARAM CPIVF2 4.4099E-04 6.096 11.1627907 2.126511628

** Covestro Point Sources
** SrcID Srctyp Xs Ys Zs
SO LOCATION 1RX POINTHOR 439938.84 4247272.37 180.07
SO LOCATION 2RX POINTHOR 439938.84 4247272.37 180.07
SO LOCATION 3RX POINTHOR 439938.84 4247272.37 180.07
SO LOCATION 789RX POINT 440278.83 4247093.29 181.75
** SrcID Ptemis Stkhgt Stktmp Stkvel Stkdia
** (g/s) (m) (K) (m/s) (m)
SO SRCPARAM 1RX 0 14.6304 373.15 10 0.0762
SO SRCPARAM 2RX 0 14.6304 373.15 10 0.0762
SO SRCPARAM 3RX 0 14.6304 313.15 10 0.0762
SO SRCPARAM 789RX 5.6699E-04 12.8016 313.15 10 0.254

** BPIP Parameters
**

SO BUILDHGT	1RX	12.10	12.10	12.10	12.10	12.10	12.10
SO BUILDHGT	1RX	12.10	12.10	12.10	12.10	12.10	12.10
SO BUILDHGT	1RX	12.10	12.10	12.10	12.10	12.10	12.10
SO BUILDHGT	1RX	12.10	12.10	12.10	12.10	12.10	12.10
SO BUILDHGT	1RX	12.10	12.10	12.10	12.10	12.10	12.10
SO BUILDHGT	1RX	12.10	12.10	12.10	12.10	12.10	12.10
SO BUILDWID	1RX	30.25	31.80	40.39	47.76	53.68	57.96
SO BUILDWID	1RX	60.49	61.17	60.00	57.00	57.50	60.20
SO BUILDWID	1RX	61.07	60.09	57.27	52.72	46.57	39.00
SO BUILDWID	1RX	30.25	31.80	40.39	47.76	53.68	57.96
SO BUILDWID	1RX	60.49	61.17	60.00	57.00	57.50	60.20
SO BUILDWID	1RX	61.07	60.09	57.27	52.72	46.57	39.00
SO BUILDLEN	1RX	57.00	57.50	60.20	61.07	60.09	57.27
SO BUILDLEN	1RX	52.72	46.57	39.00	30.25	31.80	40.39
SO BUILDLEN	1RX	47.76	53.68	57.96	60.49	61.17	60.00
SO BUILDLEN	1RX	57.00	57.50	60.20	61.07	60.09	57.27
SO BUILDLEN	1RX	52.72	46.57	39.00	30.25	31.80	40.39
SO BUILDLEN	1RX	47.76	53.68	57.96	60.49	61.17	60.00
SO XBADJ	1RX	-60.83	-61.09	-60.36	-57.81	-53.49	-47.55
SO XBADJ	1RX	-40.17	-31.56	-22.00	-11.77	-3.67	-2.83
SO XBADJ	1RX	-1.90	-0.92	0.10	1.11	2.09	3.00
SO XBADJ	1RX	3.82	3.58	0.16	-3.27	-6.59	-9.72
SO XBADJ	1RX	-12.55	-15.01	-17.00	-18.48	-28.13	-37.56
SO XBADJ	1RX	-45.86	-52.76	-58.06	-61.59	-63.26	-63.00
SO YBADJ	1RX	-3.36	-12.23	-17.37	-21.98	-25.92	-29.08
SO YBADJ	1RX	-31.35	-32.67	-33.00	-32.33	-32.33	-30.26



SO YBADJ	1RX	-27.27	-23.45	-18.92	-13.81	-8.28	-2.50
SO YBADJ	1RX	3.36	12.23	17.37	21.98	25.92	29.08
SO YBADJ	1RX	31.35	32.67	33.00	32.33	32.33	30.26
SO YBADJ	1RX	27.27	23.45	18.92	13.81	8.28	2.50
SO BUILDHGT	2RX	12.10	12.10	12.10	12.10	12.10	12.10
SO BUILDHGT	2RX	12.10	12.10	12.10	12.10	12.10	12.10
SO BUILDHGT	2RX	12.10	12.10	12.10	12.10	12.10	12.10
SO BUILDHGT	2RX	12.10	12.10	12.10	12.10	12.10	12.10
SO BUILDHGT	2RX	12.10	12.10	12.10	12.10	12.10	12.10
SO BUILDHGT	2RX	12.10	12.10	12.10	12.10	12.10	12.10
SO BUILDWID	2RX	30.25	31.80	40.39	47.76	53.68	57.96
SO BUILDWID	2RX	60.49	61.17	60.00	57.00	57.50	60.20
SO BUILDWID	2RX	61.07	60.09	57.27	52.72	46.57	39.00
SO BUILDWID	2RX	30.25	31.80	40.39	47.76	53.68	57.96
SO BUILDWID	2RX	60.49	61.17	60.00	57.00	57.50	60.20
SO BUILDWID	2RX	61.07	60.09	57.27	52.72	46.57	39.00
SO BUILDLEN	2RX	57.00	57.50	60.20	61.07	60.09	57.27
SO BUILDLEN	2RX	52.72	46.57	39.00	30.25	31.80	40.39
SO BUILDLEN	2RX	47.76	53.68	57.96	60.49	61.17	60.00
SO BUILDLEN	2RX	57.00	57.50	60.20	61.07	60.09	57.27
SO BUILDLEN	2RX	52.72	46.57	39.00	30.25	31.80	40.39
SO BUILDLEN	2RX	47.76	53.68	57.96	60.49	61.17	60.00
SO XBADJ	2RX	-60.83	-61.09	-60.36	-57.81	-53.49	-47.55
SO XBADJ	2RX	-40.17	-31.56	-22.00	-11.77	-3.67	-2.83
SO XBADJ	2RX	-1.90	-0.92	0.10	1.11	2.09	3.00
SO XBADJ	2RX	3.82	3.58	0.16	-3.27	-6.59	-9.72
SO XBADJ	2RX	-12.55	-15.01	-17.00	-18.48	-28.13	-37.56
SO XBADJ	2RX	-45.86	-52.76	-58.06	-61.59	-63.26	-63.00
SO YBADJ	2RX	-3.36	-12.23	-17.37	-21.98	-25.92	-29.08
SO YBADJ	2RX	-31.35	-32.67	-33.00	-32.33	-32.33	-30.26
SO YBADJ	2RX	-27.27	-23.45	-18.92	-13.81	-8.28	-2.50
SO YBADJ	2RX	3.36	12.23	17.37	21.98	25.92	29.08
SO YBADJ	2RX	31.35	32.67	33.00	32.33	32.33	30.26
SO YBADJ	2RX	27.27	23.45	18.92	13.81	8.28	2.50
SO BUILDHGT	3RX	12.10	12.10	12.10	12.10	12.10	12.10
SO BUILDHGT	3RX	12.10	12.10	12.10	12.10	12.10	12.10
SO BUILDHGT	3RX	12.10	12.10	12.10	12.10	12.10	12.10
SO BUILDHGT	3RX	12.10	12.10	12.10	12.10	12.10	12.10
SO BUILDHGT	3RX	12.10	12.10	12.10	12.10	12.10	12.10
SO BUILDHGT	3RX	12.10	12.10	12.10	12.10	12.10	12.10
SO BUILDWID	3RX	30.25	31.80	40.39	47.76	53.68	57.96
SO BUILDWID	3RX	60.49	61.17	60.00	57.00	57.50	60.20
SO BUILDWID	3RX	61.07	60.09	57.27	52.72	46.57	39.00
SO BUILDWID	3RX	30.25	31.80	40.39	47.76	53.68	57.96
SO BUILDWID	3RX	60.49	61.17	60.00	57.00	57.50	60.20
SO BUILDWID	3RX	61.07	60.09	57.27	52.72	46.57	39.00
SO BUILDLEN	3RX	57.00	57.50	60.20	61.07	60.09	57.27
SO BUILDLEN	3RX	52.72	46.57	39.00	30.25	31.80	40.39
SO BUILDLEN	3RX	47.76	53.68	57.96	60.49	61.17	60.00
SO BUILDLEN	3RX	57.00	57.50	60.20	61.07	60.09	57.27
SO BUILDLEN	3RX	52.72	46.57	39.00	30.25	31.80	40.39
SO BUILDLEN	3RX	47.76	53.68	57.96	60.49	61.17	60.00
SO XBADJ	3RX	-60.83	-61.09	-60.36	-57.81	-53.49	-47.55
SO XBADJ	3RX	-40.17	-31.56	-22.00	-11.77	-3.67	-2.83
SO XBADJ	3RX	-1.90	-0.92	0.10	1.11	2.09	3.00
SO XBADJ	3RX	3.82	3.58	0.16	-3.27	-6.59	-9.72



SO	XBADJ	3RX	-12.55	-15.01	-17.00	-18.48	-28.13	-37.56
SO	XBADJ	3RX	-45.86	-52.76	-58.06	-61.59	-63.26	-63.00
SO	YBADJ	3RX	-3.36	-12.23	-17.37	-21.98	-25.92	-29.08
SO	YBADJ	3RX	-31.35	-32.67	-33.00	-32.33	-32.33	-30.26
SO	YBADJ	3RX	-27.27	-23.45	-18.92	-13.81	-8.28	-2.50
SO	YBADJ	3RX	3.36	12.23	17.37	21.98	25.92	29.08
SO	YBADJ	3RX	31.35	32.67	33.00	32.33	32.33	30.26
SO	YBADJ	3RX	27.27	23.45	18.92	13.81	8.28	2.50

SO	BUILDHGT	789RX	12.10	12.10	12.10	12.10	12.10	12.10
SO	BUILDHGT	789RX	12.10	12.10	12.10	12.10	12.10	12.10
SO	BUILDHGT	789RX	12.10	12.10	12.10	12.10	12.10	12.10
SO	BUILDHGT	789RX	12.10	12.10	12.10	12.10	12.10	12.10
SO	BUILDHGT	789RX	12.10	12.10	12.10	12.10	12.10	12.10
SO	BUILDWID	789RX	56.31	56.90	58.61	60.06	59.69	57.51
SO	BUILDWID	789RX	53.58	48.02	41.00	32.74	31.71	39.76
SO	BUILDWID	789RX	46.60	52.02	55.86	58.01	58.39	57.00
SO	BUILDWID	789RX	56.31	56.90	58.61	60.06	59.69	57.51
SO	BUILDWID	789RX	53.58	48.02	41.00	32.74	31.71	39.76
SO	BUILDWID	789RX	46.60	52.02	55.86	58.01	58.39	57.00
SO	BUILDLIN	789RX	32.74	31.71	39.76	46.60	52.02	55.86
SO	BUILDLIN	789RX	58.01	58.39	57.00	56.31	56.90	58.61
SO	BUILDLIN	789RX	60.06	59.69	57.51	53.58	48.02	41.00
SO	BUILDLIN	789RX	32.74	31.71	39.76	46.60	52.02	55.86
SO	BUILDLIN	789RX	58.01	58.39	57.00	56.31	56.90	58.61
SO	BUILDLIN	789RX	60.06	59.69	57.51	53.58	48.02	41.00
SO	XBADJ	789RX	-13.68	-9.49	-13.37	-16.84	-19.79	-22.15
SO	XBADJ	789RX	-23.83	-24.79	-25.00	-24.45	-23.15	-23.99
SO	XBADJ	789RX	-25.63	-26.49	-26.55	-25.80	-24.27	-22.00
SO	XBADJ	789RX	-19.06	-22.22	-26.39	-29.76	-32.23	-33.71
SO	XBADJ	789RX	-34.17	-33.60	-32.00	-31.86	-33.75	-34.61
SO	XBADJ	789RX	-34.43	-33.20	-30.95	-27.77	-23.75	-19.00
SO	YBADJ	789RX	-3.71	-5.30	-5.31	-4.40	-3.35	-2.20
SO	YBADJ	789RX	-0.98	0.26	1.50	2.69	6.37	6.51
SO	YBADJ	789RX	6.46	6.22	5.78	5.17	4.40	3.50
SO	YBADJ	789RX	3.71	5.30	5.31	4.40	3.35	2.20
SO	YBADJ	789RX	0.98	-0.26	-1.50	-2.69	-6.37	-6.51
SO	YBADJ	789RX	-6.46	-6.22	-5.78	-5.17	-4.40	-3.50

**

** "Chemical Mixing Process Area - South Charleston WV - Ethylene Oxide"
** Srcid Srctyp Xs Ys Zs

SO LOCATION CHMIX AREA 440262 4246838 176.33
** Srcid Aremis Relhgt Xinit (Yinit) (Angle) (Szinit)
SO SRCPARAM CHMIX 6.8851E-07 3.047999902 9.99987808

**

** SOURCE GROUPS

** Chemical Mixing Source Group

SO SRCGROUP CHMIX CHMIX

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*****
*****
** Covestro Source Groups
**
** Point Source Groups
**
SO SRCGROUP 1RX 1RX
SO SRCGROUP 2RX 2RX
SO SRCGROUP 3RX 3RX
SO SRCGROUP 789RX 789RX
**
** Covestro All Point Source Group
SO SRCGROUP CPOINT 1RX 2RX 3RX 789RX
**
** Covestro Fugitive Source Groups
SO SRCGROUP CE003F CE003F1 CE003F2
SO SRCGROUP CPIVF CPIVF1 CPIVF2
** Covestro All Fugitive Source Group
SO SRCGROUP CFUGIT CE003F1 CE003F2 CPIVF1 CPIVF2
**
** Covestro All Source Group (Point and Fugitive)
SO SRCGROUP COVESTRO 1RX 2RX 3RX 789RX CE003F1 CE003F2 CPIVF1 CPIVF2
**
*****
*****
** Triton Source Groups
**
** Triton Point Source Groups
SO SRCGROUP TE10813 E10813
SO SRCGROUP T_L_All L001 L002 L003 L004
SO SRCGROUP T_T_All T8313 T8314 T8320 T8322 T8323
SO SRCGROUP T_T_All T8331 T8334 T8343 T8344 T8360
SO SRCGROUP T_T_All T8361 T8363 T8364 T8373 T8380
SO SRCGROUP T_T_All T8381 T8383 T8390 T8391 T8392 T8393 T8420
** Triton All Point Sources Group
SO SRCGROUP T_POINT E10813
SO SRCGROUP T_POINT L001 L002 L003 L004
SO SRCGROUP T_POINT T8313 T8314 T8320 T8322 T8323
SO SRCGROUP T_POINT T8331 T8334 T8343 T8344 T8360
SO SRCGROUP T_POINT T8361 T8363 T8364 T8373 T8380
SO SRCGROUP T_POINT T8381 T8383 T8390 T8391 T8392 T8393 T8420
** Triton Fugitive Source Groups
SO SRCGROUP THF THF
SO SRCGROUP TRF TRF
SO SRCGROUP TFNC TFNC
** Triton All Fugitive Sources Group
SO SRCGROUP T_FUGIT THF TRF TFNC
** TRITON ALL SOURCES POINT AND FUGITIVE
SO SRCGROUP TRITON E10813
SO SRCGROUP TRITON L001 L002 L003 L004
SO SRCGROUP TRITON T8313 T8314 T8320 T8322 T8323
SO SRCGROUP TRITON T8331 T8334 T8343 T8344 T8360
SO SRCGROUP TRITON T8361 T8363 T8364 T8373 T8380
SO SRCGROUP TRITON T8381 T8383 T8390 T8391 T8392 T8393 T8420
SO SRCGROUP TRITON THF TRF TFNC
**
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*****
** Oxide Adducts Source Groups
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** Oxide Adducts Point Source Groups
SO SRCGROUP OA_E70XP E704 E705 E706 E707 E708
SO SRCGROUP OA_TALLP T9120 T9121 T9128 T9129 T9151 T9180
SO SRCGROUP OA_TALLP T9181 T9182 T9186 T9187 T9223 T9228
SO SRCGROUP OA_TALLP T9502 T9504 T9505 T9507 T9509 T9510
SO SRCGROUP OA_TALLP T9511 T9512 T9553 T9554 T9555 T9556
SO SRCGROUP OA_TALLP T9562 T9563 T9565 T9568 T9569 T9612
SO SRCGROUP OA_TALLP T9614 T9615 T9616 T9617 T9619 T9622
SO SRCGROUP OA_TALLP T9624 T9625 T9627 T9629 T9632 T9634
SO SRCGROUP OA_TALLP T9635 T9637 T9640 T9643 T9645 T9646
SO SRCGROUP OA_TALLP T9649 T9734 T9736 T9738 T9749 T9798
SO SRCGROUP OA_TALLP T9812 T9814 T9815 T9822 T9824 T9825
SO SRCGROUP OA_LALLP L001TT1 L001TT2 L001TT3 L001TT4 L001TT5 L001TT6
** Oxide Adducts All Point Source Group
SO SRCGROUP OA_POINT E704 E705 E706 E707 E708
SO SRCGROUP OA_POINT T9120 T9121 T9128 T9129 T9151 T9180
SO SRCGROUP OA_POINT T9181 T9182 T9186 T9187 T9223 T9228
SO SRCGROUP OA_POINT T9502 T9504 T9505 T9507 T9509 T9510
SO SRCGROUP OA_POINT T9511 T9512 T9553 T9554 T9555 T9556
SO SRCGROUP OA_POINT T9562 T9563 T9565 T9568 T9569 T9612
SO SRCGROUP OA_POINT T9614 T9615 T9616 T9617 T9619 T9622
SO SRCGROUP OA_POINT T9624 T9625 T9627 T9629 T9632 T9634
SO SRCGROUP OA_POINT T9635 T9637 T9640 T9643 T9645 T9646
SO SRCGROUP OA_POINT T9649 T9734 T9736 T9738 T9749 T9798
SO SRCGROUP OA_POINT T9812 T9814 T9815 T9822 T9824 T9825
SO SRCGROUP OA_POINT L001TT1 L001TT2 L001TT3 L001TT4 L001TT5 L001TT6
** Oxide Adducts Fugitive Source Groups
SO SRCGROUP OAH2F OAH2
SO SRCGROUP OAR45F OAR451 OAR452
SO SRCGROUP OAR6F OAR6
SO SRCGROUP OAR7F OAR7
SO SRCGROUP OAWTILF OAWTIL
SO SRCGROUP OALIBF OALIB1 OALIB2 OALIB3
** Oxide Adducts All Fugitive Source Group
SO SRCGROUP OA_FUGIT OAH2
SO SRCGROUP OA_FUGIT OAR451 OAR452
SO SRCGROUP OA_FUGIT OAR6
SO SRCGROUP OA_FUGIT OAR7
SO SRCGROUP OA_FUGIT OAWTIL
SO SRCGROUP OA_FUGIT OALIB1 OALIB2 OALIB3
** Oxide Adducts - All Sources - Point and Fugitive
SO SRCGROUP OA_ALL E704 E705 E706 E707 E708
SO SRCGROUP OA_ALL T9120 T9121 T9128 T9129 T9151 T9180
SO SRCGROUP OA_ALL T9181 T9182 T9186 T9187 T9223 T9228
SO SRCGROUP OA_ALL T9502 T9504 T9505 T9507 T9509 T9510
SO SRCGROUP OA_ALL T9511 T9512 T9553 T9554 T9555 T9556
SO SRCGROUP OA_ALL T9562 T9563 T9565 T9568 T9569 T9612
SO SRCGROUP OA_ALL T9614 T9615 T9616 T9617 T9619 T9622
SO SRCGROUP OA_ALL T9624 T9625 T9627 T9629 T9632 T9634
SO SRCGROUP OA_ALL T9635 T9637 T9640 T9643 T9645 T9646
SO SRCGROUP OA_ALL T9649 T9734 T9736 T9738 T9749 T9798
SO SRCGROUP OA_ALL T9812 T9814 T9815 T9822 T9824 T9825
SO SRCGROUP OA_ALL L001TT1 L001TT2 L001TT3 L001TT4 L001TT5 L001TT6
SO SRCGROUP OA_ALL OAH2
SO SRCGROUP OA_ALL OAR451 OAR452
SO SRCGROUP OA_ALL OAR6
SO SRCGROUP OA_ALL OAR7
SO SRCGROUP OA_ALL OAWTIL
SO SRCGROUP OA_ALL OALIB1 OALIB2 OALIB3
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** UCC - South Charleston Source Group - Oxide Adducts, Triton, Chemical
Mixing

** Oxide Adducts

SO SRCGROUP UCC_SC E704 E705 E706 E707 E708
SO SRCGROUP UCC_SC T9120 T9121 T9128 T9129 T9151 T9180
SO SRCGROUP UCC_SC T9181 T9182 T9186 T9187 T9223 T9228
SO SRCGROUP UCC_SC T9502 T9504 T9505 T9507 T9509 T9510
SO SRCGROUP UCC_SC T9511 T9512 T9553 T9554 T9555 T9556
SO SRCGROUP UCC_SC T9562 T9563 T9565 T9568 T9569 T9612
SO SRCGROUP UCC_SC T9614 T9615 T9616 T9617 T9619 T9622
SO SRCGROUP UCC_SC T9624 T9625 T9627 T9629 T9632 T9634
SO SRCGROUP UCC_SC T9635 T9637 T9640 T9643 T9645 T9646
SO SRCGROUP UCC_SC T9649 T9734 T9736 T9738 T9749 T9798
SO SRCGROUP UCC_SC T9812 T9814 T9815 T9822 T9824 T9825
SO SRCGROUP UCC_SC L001TT1 L001TT2 L001TT3 L001TT4 L001TT5 L001TT6
SO SRCGROUP UCC_SC OADR2
SO SRCGROUP UCC_SC OAR451 OAR452
SO SRCGROUP UCC_SC OAR6
SO SRCGROUP UCC_SC OAR7
SO SRCGROUP UCC_SC OAWTIL
SO SRCGROUP UCC_SC OALIB1 OALIB2 OALIB3

** Triton

SO SRCGROUP UCC_SC E10813
SO SRCGROUP UCC_SC L001 L002 L003 L004
SO SRCGROUP UCC_SC T8313 T8314 T8320 T8322 T8323
SO SRCGROUP UCC_SC T8331 T8334 T8343 T8344 T8360
SO SRCGROUP UCC_SC T8361 T8363 T8364 T8373 T8380
SO SRCGROUP UCC_SC T8381 T8383 T8390 T8391 T8392 T8393 T8420
SO SRCGROUP UCC_SC THF TRF TFNC

** Chemical Mixing

SO SRCGROUP UCC_SC CHMIX



February Monitoring Event AERMOD Source Input: Institute

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** WVDAQ - Monitoring Event 2 **
** 2022 Event 2 Emissions **
**
** Ethylene Oxide - Institute, WV - EO Distribution and POLYOX
** Specialty Products US LLC (POLYOX plant facility 54-039-00005 )
** Polyox - Institute Point Sources
** LOCATION SOURCE ID UTM_E UTM_W ELEV (m)
LOCATION 221A POINT 431513.4933 4248834.413 181.53
LOCATION 230M POINT 432213.6261 4248385.614 181.64
LOCATION 230L POINT 432200.8493 4248393.156 181.74
LOCATION 230K POINT 432191.221 4248390.796 181.63
LOCATION 230O POINT 432192.7629 4248376.801 181.62
LOCATION 230HH POINT 432172.9967 4248384.18 181.56
** SrcID Ptemis Stkhgt Stktmp Stkvel stkdia
** (g/s) (m) (K) (m/s) (m)
SRCPARAM 221A 4.5359E-03 35.6616 866.4833333 4.81584 0.254
SRCPARAM 230M 2.6434E-03 4.572 318.15 16.608552 0.040894
SRCPARAM 230L 1.2436E-02 4.572 318.15 22.823424 0.040894
SRCPARAM 230K 2.4507E-03 4.572 318.15 51.499008 0.040894
SRCPARAM 230O 3.5279E-04 27.432 318.15 2.618232 0.200406
SRCPARAM 230HH 0 0.9144 0 4.572 0.01905
**
** BPIP Parameters
**
SO BUILDHGT 230HH 7.00 0.00 0.00 0.00 25.90 25.90
SO BUILDHGT 230HH 25.90 25.90 25.90 25.90 0.00 0.00
SO BUILDHGT 230HH 0.00 0.00 0.00 0.00 0.00 0.00
SO BUILDHGT 230HH 7.00 7.00 7.00 7.00 25.90 25.90
SO BUILDHGT 230HH 25.90 25.90 25.90 25.90 0.00 0.00
SO BUILDHGT 230HH 0.00 0.00 0.00 0.00 0.00 0.00
SO BUILDWID 230HH 48.55 0.00 0.00 0.00 22.09 24.75
SO BUILDWID 230HH 26.65 27.75 28.00 27.40 0.00 0.00
SO BUILDWID 230HH 0.00 0.00 0.00 0.00 0.00 0.00
SO BUILDWID 230HH 27.75 23.66 20.22 22.87 22.09 24.75
SO BUILDWID 230HH 26.65 27.75 28.00 27.40 0.00 0.00
SO BUILDWID 230HH 0.00 0.00 0.00 0.00 0.00 0.00
SO BUILDLEN 230HH 39.34 0.00 0.00 0.00 30.33 30.88
SO BUILDLEN 230HH 30.50 29.19 27.00 23.99 0.00 0.00
SO BUILDLEN 230HH 0.00 0.00 0.00 0.00 0.00 0.00
SO BUILDLEN 230HH 30.99 30.16 30.38 32.18 30.33 30.88
SO BUILDLEN 230HH 30.50 29.19 27.00 23.99 0.00 0.00
SO BUILDLEN 230HH 0.00 0.00 0.00 0.00 0.00 0.00
SO XBADJ 230HH 12.04 0.00 0.00 0.00 27.75 28.88
SO XBADJ 230HH 29.13 28.50 27.00 24.68 0.00 0.00
SO XBADJ 230HH 0.00 0.00 0.00 0.00 0.00 0.00
SO XBADJ 230HH -51.38 -52.20 -51.44 -51.61 -58.08 -59.77
SO XBADJ 230HH -59.64 -57.69 -54.00 -48.66 0.00 0.00
SO XBADJ 230HH 0.00 0.00 0.00 0.00 0.00 0.00
SO YBADJ 230HH -24.39 0.00 0.00 0.00 -11.48 -3.80
SO YBADJ 230HH 4.00 11.68 19.00 25.74 0.00 0.00
SO YBADJ 230HH 0.00 0.00 0.00 0.00 0.00 0.00
SO YBADJ 230HH 13.99 8.06 1.20 -6.27 11.48 3.80
SO YBADJ 230HH -4.00 -11.68 -19.00 -25.74 0.00 0.00
SO YBADJ 230HH 0.00 0.00 0.00 0.00 0.00 0.00

SO BUILDHGT 230O 25.90 25.90 25.90 25.90 25.90 25.90
SO BUILDHGT 230O 25.90 25.90 0.00 0.00 0.00 0.00
```




SO BUILDHGT 2300	0.00	0.00	7.00	7.00	25.90	25.90
SO BUILDHGT 2300	25.90	25.90	25.90	25.90	25.90	25.90
SO BUILDHGT 2300	25.90	25.90	0.00	0.00	0.00	0.00
SO BUILDHGT 2300	0.00	0.00	7.00	7.00	25.90	25.90
SO BUILDWID 2300	23.99	20.24	15.88	18.76	22.09	24.28
SO BUILDWID 2300	24.28	24.28	0.00	0.00	0.00	0.00
SO BUILDWID 2300	0.00	0.00	34.85	34.60	24.28	24.28
SO BUILDWID 2300	23.99	20.24	15.88	18.76	22.09	24.28
SO BUILDWID 2300	24.28	24.28	0.00	0.00	0.00	0.00
SO BUILDWID 2300	0.00	0.00	45.30	48.35	24.28	24.28
SO BUILDLEN 2300	27.40	25.97	26.49	28.85	30.33	30.88
SO BUILDLEN 2300	30.50	29.19	0.00	0.00	0.00	0.00
SO BUILDLEN 2300	0.00	0.00	29.21	31.10	27.75	28.00
SO BUILDLEN 2300	27.40	25.97	26.49	28.85	30.33	30.88
SO BUILDLEN 2300	30.50	29.19	0.00	0.00	0.00	0.00
SO BUILDLEN 2300	0.00	0.00	49.61	49.21	27.75	28.00
SO XBADJ 2300	16.45	19.40	19.95	19.05	17.58	15.56
SO XBADJ 2300	13.08	10.19	0.00	0.00	0.00	0.00
SO XBADJ 2300	0.00	0.00	-50.36	-54.25	-36.90	-41.00
SO XBADJ 2300	-43.85	-45.37	-46.44	-47.90	-47.90	-46.44
SO XBADJ 2300	-43.58	-39.39	0.00	0.00	0.00	0.00
SO XBADJ 2300	0.00	0.00	0.76	5.03	9.16	13.00
SO YBADJ 2300	-15.59	-10.20	-4.50	1.65	7.51	13.13
SO YBADJ 2300	18.36	23.03	0.00	0.00	0.00	0.00
SO YBADJ 2300	0.00	0.00	18.57	12.53	24.79	20.50
SO YBADJ 2300	15.59	10.20	4.50	-1.65	-7.51	-13.13
SO YBADJ 2300	-18.36	-23.03	0.00	0.00	0.00	0.00
SO YBADJ 2300	0.00	0.00	-23.79	-19.40	-24.79	-20.50
SO BUILDHGT 230K	25.90	25.90	25.90	25.90	25.90	25.90
SO BUILDHGT 230K	25.90	25.90	25.90	25.90	25.90	25.90
SO BUILDHGT 230K	25.90	25.90	25.90	25.90	25.90	25.90
SO BUILDHGT 230K	25.90	25.90	25.90	25.90	25.90	25.90
SO BUILDHGT 230K	25.90	25.90	25.90	25.90	25.90	25.90
SO BUILDWID 230K	23.99	20.24	15.88	18.76	22.09	24.75
SO BUILDWID 230K	26.65	27.75	28.00	27.40	25.97	26.49
SO BUILDWID 230K	28.85	30.33	30.88	30.50	29.19	27.00
SO BUILDWID 230K	23.99	20.24	15.88	18.76	22.09	24.75
SO BUILDWID 230K	26.65	27.75	28.00	27.40	25.97	26.49
SO BUILDWID 230K	28.85	30.33	30.88	30.50	29.19	27.00
SO BUILDLEN 230K	27.40	25.97	26.49	28.85	30.33	30.88
SO BUILDLEN 230K	30.50	29.19	27.00	23.99	20.24	15.88
SO BUILDLEN 230K	18.76	22.09	24.75	26.65	27.75	28.00
SO BUILDLEN 230K	27.40	25.97	26.49	28.85	30.33	30.88
SO BUILDLEN 230K	30.50	29.19	27.00	23.99	20.24	15.88
SO BUILDLEN 230K	18.76	22.09	24.75	26.65	27.75	28.00
SO XBADJ 230K	2.84	6.58	8.33	8.97	9.34	9.43
SO XBADJ 230K	9.23	8.75	8.00	7.01	5.81	4.43
SO XBADJ 230K	-1.27	-7.18	-12.88	-18.19	-22.94	-27.00
SO XBADJ 230K	-30.24	-32.55	-34.82	-37.82	-39.67	-40.31
SO XBADJ 230K	-39.73	-37.94	-35.00	-31.00	-26.05	-20.31
SO XBADJ 230K	-17.50	-14.91	-11.87	-8.46	-4.81	-1.00
SO YBADJ 230K	-19.00	-15.93	-12.37	-8.11	-3.86	0.51
SO YBADJ 230K	4.86	9.07	13.00	16.54	19.57	21.58
SO YBADJ 230K	23.40	24.50	24.87	24.48	23.34	21.50
SO YBADJ 230K	19.00	15.93	12.37	8.11	3.86	-0.51
SO YBADJ 230K	-4.86	-9.07	-13.00	-16.54	-19.57	-21.58
SO YBADJ 230K	-23.40	-24.50	-24.87	-24.48	-23.34	-21.50



SO BUILDHGT 230L	25.90	25.90	25.90	25.90	25.90	25.90
SO BUILDHGT 230L	25.90	25.90	25.90	25.90	25.90	25.90
SO BUILDHGT 230L	25.90	25.90	25.90	25.90	25.90	25.90
SO BUILDHGT 230L	25.90	25.90	25.90	25.90	25.90	25.90
SO BUILDHGT 230L	25.90	25.90	25.90	25.90	25.90	25.90
SO BUILDHGT 230L	25.90	25.90	25.90	25.90	25.90	25.90
SO BUILDWID 230L	23.99	20.24	15.88	18.76	22.09	24.75
SO BUILDWID 230L	26.65	27.75	28.00	27.40	25.97	26.49
SO BUILDWID 230L	28.85	30.33	30.88	30.50	29.19	27.00
SO BUILDWID 230L	23.99	20.24	15.88	18.76	22.09	24.75
SO BUILDWID 230L	26.65	27.75	28.00	27.40	25.97	26.49
SO BUILDWID 230L	28.85	30.33	30.88	30.50	29.19	27.00
SO BUILDLEN 230L	27.40	25.97	26.49	28.85	30.33	30.88
SO BUILDLEN 230L	30.50	29.19	27.00	23.99	20.24	15.88
SO BUILDLEN 230L	18.76	22.09	24.75	26.65	27.75	28.00
SO BUILDLEN 230L	27.40	25.97	26.49	28.85	30.33	30.88
SO BUILDLEN 230L	30.50	29.19	27.00	23.99	20.24	15.88
SO BUILDLEN 230L	18.76	22.09	24.75	26.65	27.75	28.00
SO XBADJ 230L	-1.68	0.69	1.23	0.89	0.52	0.13
SO XBADJ 230L	-0.26	-0.64	-1.00	-1.33	-1.62	-1.87
SO XBADJ 230L	-6.23	-10.67	-14.78	-18.45	-21.55	-24.00
SO XBADJ 230L	-25.72	-26.66	-27.72	-29.74	-30.84	-31.02
SO XBADJ 230L	-30.25	-28.56	-26.00	-22.65	-18.62	-14.02
SO XBADJ 230L	-12.53	-11.42	-9.96	-8.21	-6.20	-4.00
SO YBADJ 230L	-10.66	-8.50	-6.08	-3.15	-0.37	2.41
SO YBADJ 230L	5.12	7.68	10.00	12.02	13.67	14.48
SO YBADJ 230L	15.31	15.68	15.58	15.00	13.96	12.50
SO YBADJ 230L	10.66	8.50	6.08	3.15	0.37	-2.41
SO YBADJ 230L	-5.12	-7.68	-10.00	-12.02	-13.67	-14.48
SO YBADJ 230L	-15.31	-15.68	-15.58	-15.00	-13.96	-12.50

SO BUILDHGT 230M	25.90	25.90	25.90	25.90	25.90	25.90
SO BUILDHGT 230M	25.90	25.90	25.90	25.90	25.90	25.90
SO BUILDHGT 230M	25.90	25.90	25.90	25.90	25.90	25.90
SO BUILDHGT 230M	25.90	25.90	25.90	25.90	25.90	25.90
SO BUILDHGT 230M	25.90	25.90	25.90	25.90	25.90	25.90
SO BUILDHGT 230M	25.90	25.90	25.90	25.90	25.90	25.90
SO BUILDWID 230M	23.99	20.24	15.88	18.76	22.09	24.75
SO BUILDWID 230M	26.65	27.75	28.00	27.40	25.97	26.49
SO BUILDWID 230M	28.85	30.33	30.88	30.50	29.19	27.00
SO BUILDWID 230M	23.99	20.24	15.88	18.76	22.09	24.75
SO BUILDWID 230M	26.65	27.75	28.00	27.40	25.97	26.49
SO BUILDWID 230M	28.85	30.33	30.88	30.50	29.19	27.00
SO BUILDLEN 230M	27.40	25.97	26.49	28.85	30.33	30.88
SO BUILDLEN 230M	30.50	29.19	27.00	23.99	20.24	15.88
SO BUILDLEN 230M	18.76	22.09	24.75	26.65	27.75	28.00
SO BUILDLEN 230M	27.40	25.97	26.49	28.85	30.33	30.88
SO BUILDLEN 230M	30.50	29.19	27.00	23.99	20.24	15.88
SO BUILDLEN 230M	18.76	22.09	24.75	26.65	27.75	28.00
SO XBADJ 230M	3.94	3.76	1.66	-1.34	-4.30	-7.12
SO XBADJ 230M	-9.74	-12.05	-14.00	-15.52	-16.58	-17.12
SO XBADJ 230M	-21.34	-25.16	-28.21	-30.41	-31.69	-32.00
SO XBADJ 230M	-31.34	-29.73	-28.15	-27.51	-26.03	-23.76
SO XBADJ 230M	-20.77	-17.14	-13.00	-8.46	-3.67	1.24
SO XBADJ 230M	2.57	3.06	3.46	3.76	3.94	4.00
SO YBADJ 230M	3.53	6.46	9.18	11.95	14.11	15.84
SO YBADJ 230M	17.09	17.81	18.00	17.64	16.74	14.91



SO	YBADJ	230M	13.08	10.87	8.32	5.52	2.55	-0.50
SO	YBADJ	230M	-3.53	-6.46	-9.18	-11.95	-14.11	-15.84
SO	YBADJ	230M	-17.09	-17.81	-18.00	-17.64	-16.74	-14.91
SO	YBADJ	230M	-13.08	-10.87	-8.32	-5.52	-2.55	0.50

SO	BUILDHGT	221A	0.00	0.00	0.00	0.00	0.00	0.00
SO	BUILDHGT	221A	0.00	0.00	0.00	0.00	0.00	0.00
SO	BUILDHGT	221A	0.00	0.00	0.00	0.00	0.00	0.00
SO	BUILDHGT	221A	0.00	0.00	0.00	0.00	0.00	0.00
SO	BUILDHGT	221A	0.00	0.00	0.00	0.00	0.00	0.00
SO	BUILDHGT	221A	0.00	0.00	0.00	0.00	0.00	0.00
SO	BUILDWID	221A	0.00	0.00	0.00	0.00	0.00	0.00
SO	BUILDWID	221A	0.00	0.00	0.00	0.00	0.00	0.00
SO	BUILDWID	221A	0.00	0.00	0.00	0.00	0.00	0.00
SO	BUILDWID	221A	0.00	0.00	0.00	0.00	0.00	0.00
SO	BUILDWID	221A	0.00	0.00	0.00	0.00	0.00	0.00
SO	BUILDWID	221A	0.00	0.00	0.00	0.00	0.00	0.00
SO	BUILDLEN	221A	0.00	0.00	0.00	0.00	0.00	0.00
SO	BUILDLEN	221A	0.00	0.00	0.00	0.00	0.00	0.00
SO	BUILDLEN	221A	0.00	0.00	0.00	0.00	0.00	0.00
SO	BUILDLEN	221A	0.00	0.00	0.00	0.00	0.00	0.00
SO	BUILDLEN	221A	0.00	0.00	0.00	0.00	0.00	0.00
SO	BUILDLEN	221A	0.00	0.00	0.00	0.00	0.00	0.00
SO	XBADJ	221A	0.00	0.00	0.00	0.00	0.00	0.00
SO	XBADJ	221A	0.00	0.00	0.00	0.00	0.00	0.00
SO	XBADJ	221A	0.00	0.00	0.00	0.00	0.00	0.00
SO	XBADJ	221A	0.00	0.00	0.00	0.00	0.00	0.00
SO	XBADJ	221A	0.00	0.00	0.00	0.00	0.00	0.00
SO	XBADJ	221A	0.00	0.00	0.00	0.00	0.00	0.00
SO	YBADJ	221A	0.00	0.00	0.00	0.00	0.00	0.00
SO	YBADJ	221A	0.00	0.00	0.00	0.00	0.00	0.00
SO	YBADJ	221A	0.00	0.00	0.00	0.00	0.00	0.00
SO	YBADJ	221A	0.00	0.00	0.00	0.00	0.00	0.00
SO	YBADJ	221A	0.00	0.00	0.00	0.00	0.00	0.00

**
** Polyox - Institute Fugitive Sources
**
** Srcid Srctyp Xs Ys Zs
LOCATION POLYVOL1 VOLUME 432175 4248394 181.6
** Srcid Vlemis Relhgt Syint Szint
SRCPARAM POLYVOL1 8.6939E-04 4.572 3.023255814 4.253023256
**
** Srcid Srctyp Xs Ys Zs
LOCATION BL8389A1 VOLUME 432195 4248382 181.66
LOCATION BL8389A2 VOLUME 432191 4248374 181.66
LOCATION BL8389B1 VOLUME 432195 4248382 181.66
LOCATION BL8389B2 VOLUME 432191 4248374 181.66
** Srcid Vlemis Relhgt Syint Szint
SRCPARAM BL8389A1 3.1499E-05 13.716 3.990697674 2.126511628
SRCPARAM BL8389A2 3.1499E-05 13.716 3.990697674 2.126511628
SRCPARAM BL8389B1 1.0710E-04 22.86 3.990697674 2.126511628
SRCPARAM BL8389B2 1.0710E-04 22.86 3.990697674 2.126511628
**
** EO Distribution - Institute, WV
** Point Sources
** Srcid Srctyp Xs Ys Zs
LOCATION EODISTFL POINT 431659.87 4248946.05 181.6
** SrcID Ptemis Stkhgt Stktmp Stkvel Stkdia



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SRCPARAM EODISTFL 4.6855E-03 27.432 866.4833333 8.6868 0.100584
** Fugitive Sources
** Railcar Unloading
** Srcid Srctyp Xs Ys Zs
LOCATION Rail1 VOLUME 431609 4248856 182.332
LOCATION Rail2 VOLUME 431616 4248851 182.332
LOCATION Rail3 VOLUME 431624 4248847 182.332
LOCATION Rail4 VOLUME 431632 4248843 182.332
LOCATION Rail5 VOLUME 431640 4248837 182.332
** Srcid Vlemis Relhgt Syint Szint
SRCPARAM Rail1 0.00039555 5.62002432 4.76744186 0.34568573
SRCPARAM Rail2 0.00039555 5.62002432 4.76744186 0.34568573
SRCPARAM Rail3 0.00039555 5.62002432 4.76744186 0.34568573
SRCPARAM Rail4 0.00039555 5.62002432 4.76744186 0.34568573
SRCPARAM Rail5 0.00039555 5.62002432 4.76744186 0.34568573
** Pumps/Diked Area
** Srcid Srctyp Xs Ys Zs
LOCATION PUMP1 VOLUME 431612 4248893 182.55
LOCATION PUMP2 VOLUME 431620 4248889 182.55
LOCATION PUMP3 VOLUME 431630 4248884 182.55
** Srcid Vlemis Relhgt Syint Szint
SRCPARAM PUMP1 0.0010703 2.4384 5.576744186 0.567069767
SRCPARAM PUMP2 0.0010703 2.4384 5.576744186 0.567069767
SRCPARAM PUMP3 0.0010703 2.4384 5.576744186 0.567069767
** Tanks Area
** Srcid Srctyp Xs Ys Zs
LOCATION TANKS1 VOLUME 431587 4248907 182.76
LOCATION TANKS2 VOLUME 431599 4248903 182.76
** Srcid Vlemis Relhgt Syint Szint
SRCPARAM TANKS1 0.00090102 5.4864 5.786046512 0.283534884
SRCPARAM TANKS2 0.00090102 5.4864 5.786046512 0.283534884
** Flare Area
** Srcid Srctyp Xs Ys Zs
LOCATION FLAREFU1 VOLUME 431658 4248944 182.87
LOCATION FLAREFU2 VOLUME 431653 4248936 182.87
** Srcid Vlemis Relhgt Syint Szint
SRCPARAM FLAREFU1 2.3689E-04 2.4384 3.688372093 0.283534884
SRCPARAM FLAREFU2 2.3689E-04 2.4384 3.688372093 0.283534884
** Area Near Rt. 25
** Srcid Srctyp Xs Ys Zs
LOCATION R251 VOLUME 431873 4249163 183.655
LOCATION R252 VOLUME 431877 4249161 183.655
** Srcid Vlemis Relhgt Syint Szint
SRCPARAM R251 5.7806E-05 1.0668 1.8 0.354418605
SRCPARAM R252 5.7806E-05 1.0668 1.8 0.354418605
**
** EO DISTRIBUTION Source Groups
** Point Source Groups
SRCGROUP EODISTFL EODISTFL
SRCGROUP EODPOINT EODISTFL
** Fugitive Source Groups
SRCGROUP EODRAILF Rail1 Rail2 Rail3 Rail4 Rail5
SRCGROUP EODPUMPF PUMP1 PUMP2 PUMP3
SRCGROUP EODTANKF TANKS1 TANKS2
SRCGROUP EODFLARF FLAREFU1 FLAREFU2
SRCGROUP EODR25F R251 R252
SRCGROUP EODFUGI Rail1 Rail2 Rail3 Rail4 Rail5 PUMP1 PUMP2 PUMP3
SRCGROUP EODFUGI TANKS1 TANKS2 FLAREFU1 FLAREFU2 R251 R252
** EO DISTRIBUTION ALL (Point and Fugitive)
SRCGROUP EODIST EODISTFL
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SRCGROUP EODIST Rail1 Rail2 Rail3 Rail4 Rail5 PUMP1 PUMP2 PUMP3
SRCGROUP EODIST TANKS1 TANKS2 FLAREFU1 FLAREFU2 R251 R252
**
** Polyox Source Groups
** Point Source Groups
**
SRCGROUP 221A 221A
SRCGROUP 230M 230M
SRCGROUP 230L 230L
SRCGROUP 230K 230K
SRCGROUP 230O 230O
SRCGROUP 230HH 230HH
SRCGROUP PPOINT 221A 230M 230L 230K 230O 230HH
**
** Fugitive Source Groups
**
SRCGROUP POLYVOL1 POLYVOL1
SRCGROUP PBL8389 BL8389A1 BL8389A2 BL8389B1 BL8389B2
SRCGROUP PFUGIT POLYVOL1 BL8389A1 BL8389A2 BL8389B1 BL8389B2
**
** POLYOX All Source Groups (Point and Fugitive)
**
SRCGROUP POLYOX 221A 230M 230L 230K 230O 230HH
SRCGROUP POLYOX POLYVOL1 BL8389A1 BL8389A2 BL8389B1 BL8389B2
```



February Monitoring Event AERMOD Source Input: South Charleston

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**Ethylene oxide - South Charleston, WV Monitoring Event #2 (Feb 15-16, 2022)
**Oxide Adducts; Triton; Covestro; Chemical Mixing
*****
**
** Ethylene Oxide - ALL South Charleston, WV Process Areas
**
*****
** Union Carbide Corporation - Oxide Adducts - Plant ID 03900003
** Oxide Adducts Point Sources
**
** Srcid Srctyp Xs Ys Zs
SO LOCATION E704 POINT 439727.0898 4247132.136 181.84
SO LOCATION E705 POINT 439676.2355 4247142.393 182.66
SO LOCATION E706 POINT 439676.2355 4247142.393 182.66
SO LOCATION E707 POINT 439711.3862 4247111.614 184.05
SO LOCATION E708 POINT 439675.5865 4247090.687 184.41
**
** SrcID Ptemis Stkhgt Stktmp Stkvel Stkdia
** (g/s) (m) (K) (m/s) (m)
SO SRCPARAM E704 0 9.144 353.15 65.61836 0.024384
SO SRCPARAM E705 0 9.144 353.15 65.61836 0.024384
SO SRCPARAM E706 0 9.144 353.15 65.61836 0.024384
SO SRCPARAM E707 3.4124E-03 10.9728 353.15 49.1744 0.024384
SO SRCPARAM E708 3.9374E-03 12.192 353.15 18.53184 0.039624
**
** Srcid Srctyp Xs Ys Zs
SO LOCATION T9120 POINT 439685.8352 4247106.035 184.07
SO LOCATION T9121 POINT 439685.8352 4247106.035 184.07
SO LOCATION T9128 POINT 439723.4114 4247107.529 183.89
SO LOCATION T9129 POINT 439723.4114 4247107.529 183.89
SO LOCATION T9151 POINT 439694.594 4247109.076 184.05
SO LOCATION T9180 POINT 439706.8896 4247106.099 184.25
SO LOCATION T9181 POINT 439706.8896 4247106.099 184.25
SO LOCATION T9182 POINT 439706.8896 4247106.099 184.25
SO LOCATION T9186 POINT 439666.5424 4247084.54 184.3
SO LOCATION T9187 POINT 439666.5424 4247084.54 184.3
SO LOCATION T9223 POINT 439665.6512 4247093.868 184.07
SO LOCATION T9228 POINT 439694.3836 4247104.306 184.13
SO LOCATION T9502 POINT 439720.7695 4247128.078 183.17
SO LOCATION T9504 POINT 439679.6315 4247140.925 183.01
SO LOCATION T9505 POINT 439678.6308 4247135.606 183.28
SO LOCATION T9507 POINT 438886.7718 4136148.361 183.29
SO LOCATION T9509 POINT 439638.2105 4247104.283 183.92
SO LOCATION T9510 POINT 439647.5443 4247102.437 183.85
SO LOCATION T9511 POINT 439649.2697 4247111.191 183.78
SO LOCATION T9512 POINT 439655.838 4247113.361 183.74
SO LOCATION T9553 POINT 439767.2389 4247080.458 183.94
SO LOCATION T9554 POINT 439773.7782 4247078.745 183.94
SO LOCATION T9555 POINT 439773.7782 4247078.745 183.94
SO LOCATION T9556 POINT 439758.9003 4247075.194 183.97
SO LOCATION T9562 POINT 439747.3508 4247084.491 184.17
SO LOCATION T9563 POINT 439744.9134 4247073.967 184.24
SO LOCATION T9565 POINT 439773.6592 4247051.115 184.38
SO LOCATION T9568 POINT 439775.3753 4247058.648 184.32
SO LOCATION T9569 POINT 439794.994 4247053.619 184.22
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SO LOCATION T9612 POINT 439717.9824 4247129.208 183.23
SO LOCATION T9614 POINT 439684.0875 4247141.002 182.55
SO LOCATION T9615 POINT 439681.9445 4247134.804 183.22
SO LOCATION T9616 POINT 439666.5424 4247084.54 184.3
SO LOCATION T9617 POINT 439717.7941 4247104.02 184.24
SO LOCATION T9619 POINT 439654.9674 4247137.114 183.34
SO LOCATION T9622 POINT 439717.9824 4247129.208 183.23
SO LOCATION T9624 POINT 439684.0875 4247141.002 182.55
SO LOCATION T9625 POINT 439681.9445 4247134.804 183.22
SO LOCATION T9627 POINT 439717.7941 4247104.02 184.24
SO LOCATION T9629 POINT 439654.9674 4247137.114 183.34
SO LOCATION T9632 POINT 439805.7771 4246976.749 184.65
SO LOCATION T9634 POINT 439779.5329 4247018.78 184.65
SO LOCATION T9635 POINT 439775.4267 4247007.048 184.61
SO LOCATION T9637 POINT 439801.5726 4247045.469 184.47
SO LOCATION T9640 POINT 439800.0875 4247045.48 184.46
SO LOCATION T9643 POINT 439793.4584 4247046.861 184.31
SO LOCATION T9645 POINT 439793.4584 4247046.861 184.31
SO LOCATION T9646 POINT 439788.6277 4247055.109 184.21
SO LOCATION T9649 POINT 439780.6377 4247049.731 184.31
SO LOCATION T9734 POINT 439644.6571 4247125.207 183.55
SO LOCATION T9736 POINT 439648.584 4247124.623 183.58
SO LOCATION T9738 POINT 439652.1564 4247123.376 183.57
SO LOCATION T9749 POINT 439718.7008 4247108.452 184.03
SO LOCATION T9798 POINT 439726.2124 4247119.936 183.28
SO LOCATION T9812 POINT 439704.6444 4247132.97 182.55
SO LOCATION T9814 POINT 439697.2524 4247137.464 181.85
SO LOCATION T9815 POINT 439696.1627 4247131.924 183.06
SO LOCATION T9822 POINT 439704.6444 4247132.97 182.55
SO LOCATION T9824 POINT 439697.2524 4247137.464 181.85
SO LOCATION T9825 POINT 439696.1627 4247131.924 183.06
**
** SrcID Ptemis Stkhgt Stktmp Stkvel Stkdia
** (g/s) (m) (K) (m/s) (m)
SO SRCPARAM T9120 1.6952E-06 6.7056 0 0.099579281 0.2032
SO SRCPARAM T9121 1.6952E-06 6.7056 0 0.099579281 0.2032
SO SRCPARAM T9128 1.6952E-06 7.3152 0 0.101393412 0.1524
SO SRCPARAM T9129 1.6952E-06 7.3152 0 0.099579281 0.2032
SO SRCPARAM T9151 0 5.4864 0 0.077032657 0.1016
SO SRCPARAM T9180 1.6952E-06 7.62 0 0.099579281 0.2032
SO SRCPARAM T9181 1.6952E-06 7.62 0 0.099579281 0.2032
SO SRCPARAM T9182 1.6952E-06 7.62 0 0.099579281 0.2032
SO SRCPARAM T9186 1.6952E-06 18.8976 0 0.099579281 0.2032
SO SRCPARAM T9187 1.6952E-06 18.8976 0 0.099579281 0.2032
SO SRCPARAM T9223 1.6952E-06 6.4008 0 0.099579281 0.2032
SO SRCPARAM T9228 1.6952E-06 5.7912 0 0.099579281 0.2032
SO SRCPARAM T9502 1.6952E-06 13.716 0 0.099579281 0.2032
SO SRCPARAM T9504 1.6952E-06 13.716 0 0.099579281 0.2032
SO SRCPARAM T9505 1.6952E-06 13.716 0 0.099579281 0.2032
SO SRCPARAM T9507 1.6952E-06 5.4864 0 0.099579281 0.2032
SO SRCPARAM T9509 1.6952E-06 9.144 0 0.14591763 0.2032
SO SRCPARAM T9510 1.6952E-06 9.144 0 0.0068962 0.508
SO SRCPARAM T9511 1.6952E-06 9.144 0 0.326648095 0.1016
SO SRCPARAM T9512 1.6952E-06 9.144 0 0.40442145 0.1016
SO SRCPARAM T9553 1.6952E-06 18.8976 0 0.063048267 0.254
SO SRCPARAM T9554 1.6952E-06 18.8976 0 0.101846061 0.2032
SO SRCPARAM T9555 1.6952E-06 18.8976 0 0.154846751 0.2032
SO SRCPARAM T9556 1.6952E-06 18.8976 0 0.106290253 0.2032
SO SRCPARAM T9562 1.6952E-06 9.7536 0 0.022369099 0.508
SO SRCPARAM T9563 1.6952E-06 9.7536 0 0.019672956 0.508
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SO SRCPARAM T9565 1.6952E-06 6.7056 0 0.079639916 0.254
SO SRCPARAM T9568 1.6952E-06 6.7056 0 0.031572279 0.4064
SO SRCPARAM T9569 1.6952E-06 7.62 0 0.044441918 0.2032
SO SRCPARAM T9612 1.6952E-06 13.4112 0 0.099579281 0.2032
SO SRCPARAM T9614 1.6952E-06 13.716 0 0.037034931 0.2032
SO SRCPARAM T9615 1.6952E-06 13.716 0 0.099579281 0.2032
SO SRCPARAM T9616 0 18.8976 0 0.144362162 0.2032
SO SRCPARAM T9617 1.6952E-06 18.8976 0 0.110610995 0.1524
SO SRCPARAM T9619 1.6952E-06 19.5072 0 0.132733194 0.2032
SO SRCPARAM T9622 1.6952E-06 13.4112 0 0.099579281 0.2032
SO SRCPARAM T9624 1.6952E-06 13.716 0 0.108142 0.2032
SO SRCPARAM T9625 1.6952E-06 13.716 0 0.099579281 0.2032
SO SRCPARAM T9627 1.6952E-06 18.8976 0 0.099579281 0.2032
SO SRCPARAM T9629 1.6952E-06 19.5072 0 0.148139725 0.2032
SO SRCPARAM T9632 1.6952E-06 6.096 0 0.2696143 0.1016
SO SRCPARAM T9634 1.6952E-06 6.4008 0 0.222209588 0.1016
SO SRCPARAM T9635 1.6952E-06 6.4008 0 0.303686437 0.1016
SO SRCPARAM T9637 1.6952E-06 7.62 0 0.123120572 0.1524
SO SRCPARAM T9640 1.6952E-06 7.62 0 0.207395616 0.1524
SO SRCPARAM T9643 0 7.62 0 0.089871433 0.1524
SO SRCPARAM T9645 1.6952E-06 7.62 0 0.121803774 0.1524
SO SRCPARAM T9646 1.6952E-06 7.62 0 0.241467752 0.1016
SO SRCPARAM T9649 1.6952E-06 7.62 0 0.199988629 0.1016
SO SRCPARAM T9734 1.6952E-06 5.4864 0 0.598333059 0.1524
SO SRCPARAM T9736 1.6952E-06 5.4864 0 0.579061727 0.1524
SO SRCPARAM T9738 1.6952E-06 4.8768 0 0.015507266 0.508
SO SRCPARAM T9749 1.6952E-06 7.9248 0 0.185997655 0.1524
SO SRCPARAM T9798 1.6952E-06 6.4008 0 0.099579281 0.2032
SO SRCPARAM T9812 1.6952E-06 15.24 0 0.099579281 0.2032
SO SRCPARAM T9814 1.6952E-06 13.716 0 0.099579281 0.2032
SO SRCPARAM T9815 1.6952E-06 15.24 0 0.099579281 0.2032
SO SRCPARAM T9822 1.6952E-06 15.24 0 0.099579281 0.2032
SO SRCPARAM T9824 1.6952E-06 13.716 0 0.099579281 0.2032
SO SRCPARAM T9825 1.6952E-06 15.24 0 0.099579281 0.2032
**
** Srcid Srctyp Xs Ys Zs
SO LOCATION L001TT1 POINT 439641.71 4247081.619 184.31
SO LOCATION L001TT2 POINT 439662.8977 4247076.134 184.44
SO LOCATION L001TT3 POINT 439673.8979 4247075.164 184.49
SO LOCATION L001TT4 POINT 439683.3865 4247070.654 184.58
SO LOCATION L001TT5 POINT 439694.4766 4247070.017 184.47
SO LOCATION L001TT6 POINT 439706.0709 4247066.712 184.51
**
** SrcID Ptemis Stkhgt Stktmp Stkvel Stkdia
** (g/s) (m) (K) (m/s) (m)
SO SRCPARAM L001TT1 1.6952E-06 3.6576 0 0.024902038 0.508
SO SRCPARAM L001TT2 1.6952E-06 3.6576 0 0.024902038 0.508
SO SRCPARAM L001TT3 0 3.6576 0 0.024902038 0.508
SO SRCPARAM L001TT4 0 3.6576 0 0.024902038 0.508
SO SRCPARAM L001TT5 0 3.6576 0 0.024902038 0.508
SO SRCPARAM L001TT6 0 3.6576 0 0.024902038 0.508
**
** Oxide Adducts Fugitive Sources
** EO Header and Reactor 2
** Srcid Srctyp Xs Ys Zs
SO LOCATION OAH2 VOLUME 439731 4247128 182.63
** Srcid Vlemis Relhgt Syint Szint
SO SRCPARAM OAH2 0.00040193 4.8768 2.872093023 1.984744186
** Reactors 4 and 5
** Srcid Srctyp Xs Ys Zs
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SO LOCATION OAR451 VOLUME 439674 4247142 183
SO LOCATION OAR452 VOLUME 439672 4247137 183
** Srcid Vlemis Relhgt Syint Szint
SO SRCPARAM OAR451 0.00031945 8.5344 2.125581395 0.283534884
SO SRCPARAM OAR452 0.00031945 8.5344 2.125581395 0.283534884
** Reactor 6
** Srcid Srctyp Xs Ys Zs
SO LOCATION OAR6 VOLUME 439676 4247091 184.41
** Srcid Vlemis Relhgt Syint Szint
SO SRCPARAM OAR6 0.00012924 7.62 0.972093023 2.126511628
** Reactor 7
** Srcid Srctyp Xs Ys Zs
SO LOCATION OAR7 VOLUME 439713 4247110 184.27
** Srcid Vlemis Relhgt Syint Szint
SO SRCPARAM OAR7 0.000056660 7.7724 0.739534884 2.197395349
**

** Western Tip of Island - Modeled as a LINE source
** Srcid Srctyp Xs1 Ys1 Xs2 Ys2 Zs
SO LOCATION OAWTIL LINE 439166 4247407 439631 4247325 181.0666667
** Srcid Lnemis Relhgt Width (Szint)
SO SRCPARAM OAWTIL 1.44372E-07 0 3.47 3.6576
**

** Lower Island Bridge
** Srcid Srctyp Xs Ys Zs
SO LOCATION OALIB1 VOLUME 439762 4247237 176.33
SO LOCATION OALIB2 VOLUME 439767 4247235 176.33
SO LOCATION OALIB3 VOLUME 439773 4247233 176.33
** Srcid Vlemis Relhgt Syint Szint
SO SRCPARAM OALIB1 0.000047240 2.4384 2.63255814 0.850604651
SO SRCPARAM OALIB2 0.000047240 2.4384 2.63255814 0.850604651
SO SRCPARAM OALIB3 0.000047240 2.4384 2.63255814 0.850604651
**

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*****
** "TRITON - DOW/UCC - South Charleston WV - ALL Sources (Point and
Fugitive)"
**
** "TRITON - South Charleston WV - Point Sources"
**
** Srcid Srctyp Xs Ys Zs
SO LOCATION E10813 POINT 440122.4085 4247192.775 181.87
SO LOCATION L001 POINT 440069.2126 4247170.089 181.81
SO LOCATION L002 POINT 440087.0074 4247142.992 181.97
SO LOCATION L003 POINT 440147.9003 4247214.002 181.71
SO LOCATION L004 POINT 440086.0755 4247182.17 181.83
SO LOCATION T8313 POINT 440078.357 4247189.773 182.04
SO LOCATION T8314 POINT 440074.9575 4247190.797 181.96
SO LOCATION T8320 POINT 440095.3977 4247190.534 181.87
SO LOCATION T8322 POINT 440084.5831 4247192.945 181.84
SO LOCATION T8323 POINT 440079.3443 4247193.317 181.94
SO LOCATION T8331 POINT 440111.855 4247195.073 181.87
SO LOCATION T8334 POINT 440076.4945 4247197.777 181.8
SO LOCATION T8343 POINT 440081.8735 4247204.506 181.89
SO LOCATION T8344 POINT 440078.4716 4247205.197 181.86
SO LOCATION T8360 POINT 440099.7218 4247208.146 181.85
SO LOCATION T8361 POINT 440094.4023 4247209.406 181.84
SO LOCATION T8363 POINT 440083.586 4247211.595 181.93
SO LOCATION T8364 POINT 440080.0976 4247212.397 181.92
SO LOCATION T8373 POINT 440083.9 4247218.583 181.8
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SO LOCATION T8380 POINT 440101.8901 4247217.784 181.91
SO LOCATION T8381 POINT 440097.2685 4247218.928 181.85
SO LOCATION T8383 POINT 440084.9779 4247222.57 181.77
SO LOCATION T8390 POINT 440103.0587 4247222.214 181.85
SO LOCATION T8391 POINT 440098.4404 4247223.802 181.79
SO LOCATION T8392 POINT 440092.5967 4247225.066 181.76
SO LOCATION T8393 POINT 440085.9685 4247226.558 181.77
SO LOCATION T8420 POINT 440130.2721 4247192.938 181.87
** SrcID Ptemis Stkhgt Stktmp Stkvel Stkdia
** (g/s) (m) (K) (m/s) (m)
SO SRCPARAM E10813 8.3999E-04 22.86 313.15 0.402880745 0.2115312
SO SRCPARAM L001 2.0799E-05 3.6576 333.15 0.024902038 0.508
SO SRCPARAM L002 2.0799E-05 8.2296 333.15 0.038909435 0.2032
SO SRCPARAM L003 2.0799E-05 3.6576 333.15 0.024902038 0.508
SO SRCPARAM L004 2.0799E-05 3.6576 333.15 0.024902038 0.508
SO SRCPARAM T8313 1.1606E-05 14.0208 0 0.708119332 0.0762
SO SRCPARAM T8314 1.1606E-05 14.0208 0 0.708119332 0.0762
SO SRCPARAM T8320 1.1606E-05 10.668 0 0.708119332 0.0762
SO SRCPARAM T8322 1.1606E-05 7.1628 0 0.708119332 0.0762
SO SRCPARAM T8323 1.1606E-05 15.5448 0 0.177029833 0.1524
SO SRCPARAM T8331 1.1606E-05 6.7056 0 0.708119332 0.0762
SO SRCPARAM T8334 1.1606E-05 15.5448 0 0.177029833 0.1524
SO SRCPARAM T8343 1.1606E-05 15.5448 0 0.101601144 0.201168
SO SRCPARAM T8344 1.1606E-05 15.5448 0 0.177029833 0.1524
SO SRCPARAM T8360 1.1606E-05 5.7404 0 0.406404575 0.100584
SO SRCPARAM T8361 1.1606E-05 5.7404 0 0.708119332 0.0762
SO SRCPARAM T8363 1.1606E-05 15.5448 0 0.101601144 0.201168
SO SRCPARAM T8364 1.1606E-05 15.5448 0 0.101601144 0.201168
SO SRCPARAM T8373 1.1606E-05 8.9916 0 0.177029833 0.1524
SO SRCPARAM T8380 0 10.668 0 1.53139994 0.051816
SO SRCPARAM T8381 1.1606E-05 10.668 0 1.53139994 0.051816
SO SRCPARAM T8383 1.1606E-05 8.634984 0 0.406404575 0.100584
SO SRCPARAM T8390 1.1606E-05 10.668 0 0.708119332 0.0762
SO SRCPARAM T8391 0 10.668 0 0.708119332 0.0762
SO SRCPARAM T8392 1.1606E-05 10.567416 0 0.406404575 0.100584
SO SRCPARAM T8393 0 9.144 0 0.708119332 0.0762
SO SRCPARAM T8420 1.1606E-05 22.86 0 2.618784513 0.039624
**
** "TRITON - South Charleston WV - Fugitive Sources"
**
** Triton Header Fugitives - THF
** Srcid Srctyp Xs Ys Zs
SO LOCATION THF VOLUME 440132 4247228 180.81
** Srcid Vlemis Relhgt Synt Szint
SO SRCPARAM THF 3.6721E-05 1.8288 1.174418605 0.567069767
**
** Triton Reactor Fugitives - TRF
** Srcid Srctyp Xs Ys Zs
SO LOCATION TRF VOLUME 440122 4247181 181.79
** Srcid Vlemis Relhgt Synt Szint
SO SRCPARAM TRF 0.000095675 9.144 1.909302326 1.417674419
**
** Triton Fugitives Near Covestro - TFNC
** Srcid Srctyp Xs Ys Zs
SO LOCATION TFNC VOLUME 439987 4247262 180.53
** Srcid Vlemis Relhgt Synt Szint
SO SRCPARAM TFNC 4.4753E-05 1.2192 0.741860465 0.283534884
**
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** Covestro - South Charleston, WV
** Ethylene Oxide - All Sources - Point and Fugitive
** Covestro Fugitive Sources
** Covestro E003 Fugitives - CE003F
** Srcid Srctyp Xs Ys Zs
SO LOCATION CE003F1 VOLUME 439941 4247253 181.825
SO LOCATION CE003F2 VOLUME 439935 4247225 181.825
** Srcid Vlemis Relhgt Syint Szint
SO SRCPARAM CE003F1 2.5830E-04 10.0584 13.02325581 2.410046512
SO SRCPARAM CE003F2 2.5830E-04 10.0584 13.02325581 2.410046512

** Covestro PhaseIV Fugitives - CPIVF
** Srcid Srctyp Xs Ys Zs
SO LOCATION CPIVF1 VOLUME 440271 4247100 181.78
SO LOCATION CPIVF2 VOLUME 440293 4247096 181.78
** Srcid Vlemis Relhgt Syint Szint
SO SRCPARAM CPIVF1 4.4099E-04 6.096 11.1627907 2.126511628
SO SRCPARAM CPIVF2 4.4099E-04 6.096 11.1627907 2.126511628

** Covestro Point Sources
** SrcID Srctyp Xs Ys Zs
SO LOCATION 1RX POINTHOR 439938.84 4247272.37 180.07
SO LOCATION 2RX POINTHOR 439938.84 4247272.37 180.07
SO LOCATION 3RX POINTHOR 439938.84 4247272.37 180.07
SO LOCATION 789RX POINT 440278.83 4247093.29 181.75
** SrcID Ptemis Stkhgt Stktmp Stkvel Stkdia
** (g/s) (m) (K) (m/s) (m)
SO SRCPARAM 1RX 0 14.6304 373.15 10 0.0762
SO SRCPARAM 2RX 0 14.6304 373.15 10 0.0762
SO SRCPARAM 3RX 0 14.6304 313.15 10 0.0762
SO SRCPARAM 789RX 8.8199E-04 12.8016 313.15 10 0.254

** BPIP Parameters
**

SO BUILDHGT 1RX	12.10	12.10	12.10	12.10	12.10	12.10
SO BUILDHGT 1RX	12.10	12.10	12.10	12.10	12.10	12.10
SO BUILDHGT 1RX	12.10	12.10	12.10	12.10	12.10	12.10
SO BUILDHGT 1RX	12.10	12.10	12.10	12.10	12.10	12.10
SO BUILDHGT 1RX	12.10	12.10	12.10	12.10	12.10	12.10
SO BUILDHGT 1RX	12.10	12.10	12.10	12.10	12.10	12.10
SO BUILDHGT 1RX	12.10	12.10	12.10	12.10	12.10	12.10
SO BUILDWID 1RX	30.25	31.80	40.39	47.76	53.68	57.96
SO BUILDWID 1RX	60.49	61.17	60.00	57.00	57.50	60.20
SO BUILDWID 1RX	61.07	60.09	57.27	52.72	46.57	39.00
SO BUILDWID 1RX	30.25	31.80	40.39	47.76	53.68	57.96
SO BUILDWID 1RX	60.49	61.17	60.00	57.00	57.50	60.20
SO BUILDWID 1RX	61.07	60.09	57.27	52.72	46.57	39.00
SO BUILDLEN 1RX	57.00	57.50	60.20	61.07	60.09	57.27
SO BUILDLEN 1RX	52.72	46.57	39.00	30.25	31.80	40.39
SO BUILDLEN 1RX	47.76	53.68	57.96	60.49	61.17	60.00
SO BUILDLEN 1RX	57.00	57.50	60.20	61.07	60.09	57.27
SO BUILDLEN 1RX	52.72	46.57	39.00	30.25	31.80	40.39
SO BUILDLEN 1RX	47.76	53.68	57.96	60.49	61.17	60.00
SO XBADJ 1RX	-60.83	-61.09	-60.36	-57.81	-53.49	-47.55
SO XBADJ 1RX	-40.17	-31.56	-22.00	-11.77	-3.67	-2.83
SO XBADJ 1RX	-1.90	-0.92	0.10	1.11	2.09	3.00
SO XBADJ 1RX	3.82	3.58	0.16	-3.27	-6.59	-9.72
SO XBADJ 1RX	-12.55	-15.01	-17.00	-18.48	-28.13	-37.56
SO XBADJ 1RX	-45.86	-52.76	-58.06	-61.59	-63.26	-63.00
SO YBADJ 1RX	-3.36	-12.23	-17.37	-21.98	-25.92	-29.08



SO YBADJ	1RX	-31.35	-32.67	-33.00	-32.33	-32.33	-30.26
SO YBADJ	1RX	-27.27	-23.45	-18.92	-13.81	-8.28	-2.50
SO YBADJ	1RX	3.36	12.23	17.37	21.98	25.92	29.08
SO YBADJ	1RX	31.35	32.67	33.00	32.33	32.33	30.26
SO YBADJ	1RX	27.27	23.45	18.92	13.81	8.28	2.50

SO BUILDHGT	2RX	12.10	12.10	12.10	12.10	12.10	12.10
SO BUILDHGT	2RX	12.10	12.10	12.10	12.10	12.10	12.10
SO BUILDHGT	2RX	12.10	12.10	12.10	12.10	12.10	12.10
SO BUILDHGT	2RX	12.10	12.10	12.10	12.10	12.10	12.10
SO BUILDHGT	2RX	12.10	12.10	12.10	12.10	12.10	12.10
SO BUILDHGT	2RX	12.10	12.10	12.10	12.10	12.10	12.10
SO BUILDWID	2RX	30.25	31.80	40.39	47.76	53.68	57.96
SO BUILDWID	2RX	60.49	61.17	60.00	57.00	57.50	60.20
SO BUILDWID	2RX	61.07	60.09	57.27	52.72	46.57	39.00
SO BUILDWID	2RX	30.25	31.80	40.39	47.76	53.68	57.96
SO BUILDWID	2RX	60.49	61.17	60.00	57.00	57.50	60.20
SO BUILDWID	2RX	61.07	60.09	57.27	52.72	46.57	39.00
SO BUILDLEN	2RX	57.00	57.50	60.20	61.07	60.09	57.27
SO BUILDLEN	2RX	52.72	46.57	39.00	30.25	31.80	40.39
SO BUILDLEN	2RX	47.76	53.68	57.96	60.49	61.17	60.00
SO BUILDLEN	2RX	57.00	57.50	60.20	61.07	60.09	57.27
SO BUILDLEN	2RX	52.72	46.57	39.00	30.25	31.80	40.39
SO BUILDLEN	2RX	47.76	53.68	57.96	60.49	61.17	60.00
SO XBADJ	2RX	-60.83	-61.09	-60.36	-57.81	-53.49	-47.55
SO XBADJ	2RX	-40.17	-31.56	-22.00	-11.77	-3.67	-2.83
SO XBADJ	2RX	-1.90	-0.92	0.10	1.11	2.09	3.00
SO XBADJ	2RX	3.82	3.58	0.16	-3.27	-6.59	-9.72
SO XBADJ	2RX	-12.55	-15.01	-17.00	-18.48	-28.13	-37.56
SO XBADJ	2RX	-45.86	-52.76	-58.06	-61.59	-63.26	-63.00
SO YBADJ	2RX	-3.36	-12.23	-17.37	-21.98	-25.92	-29.08
SO YBADJ	2RX	-31.35	-32.67	-33.00	-32.33	-32.33	-30.26
SO YBADJ	2RX	-27.27	-23.45	-18.92	-13.81	-8.28	-2.50
SO YBADJ	2RX	3.36	12.23	17.37	21.98	25.92	29.08
SO YBADJ	2RX	31.35	32.67	33.00	32.33	32.33	30.26
SO YBADJ	2RX	27.27	23.45	18.92	13.81	8.28	2.50

SO BUILDHGT	3RX	12.10	12.10	12.10	12.10	12.10	12.10
SO BUILDHGT	3RX	12.10	12.10	12.10	12.10	12.10	12.10
SO BUILDHGT	3RX	12.10	12.10	12.10	12.10	12.10	12.10
SO BUILDHGT	3RX	12.10	12.10	12.10	12.10	12.10	12.10
SO BUILDHGT	3RX	12.10	12.10	12.10	12.10	12.10	12.10
SO BUILDHGT	3RX	12.10	12.10	12.10	12.10	12.10	12.10
SO BUILDWID	3RX	30.25	31.80	40.39	47.76	53.68	57.96
SO BUILDWID	3RX	60.49	61.17	60.00	57.00	57.50	60.20
SO BUILDWID	3RX	61.07	60.09	57.27	52.72	46.57	39.00
SO BUILDWID	3RX	30.25	31.80	40.39	47.76	53.68	57.96
SO BUILDWID	3RX	60.49	61.17	60.00	57.00	57.50	60.20
SO BUILDWID	3RX	61.07	60.09	57.27	52.72	46.57	39.00
SO BUILDLEN	3RX	57.00	57.50	60.20	61.07	60.09	57.27
SO BUILDLEN	3RX	52.72	46.57	39.00	30.25	31.80	40.39
SO BUILDLEN	3RX	47.76	53.68	57.96	60.49	61.17	60.00
SO BUILDLEN	3RX	57.00	57.50	60.20	61.07	60.09	57.27
SO BUILDLEN	3RX	52.72	46.57	39.00	30.25	31.80	40.39
SO BUILDLEN	3RX	47.76	53.68	57.96	60.49	61.17	60.00
SO XBADJ	3RX	-60.83	-61.09	-60.36	-57.81	-53.49	-47.55
SO XBADJ	3RX	-40.17	-31.56	-22.00	-11.77	-3.67	-2.83
SO XBADJ	3RX	-1.90	-0.92	0.10	1.11	2.09	3.00



SO	XBADJ	3RX	3.82	3.58	0.16	-3.27	-6.59	-9.72
SO	XBADJ	3RX	-12.55	-15.01	-17.00	-18.48	-28.13	-37.56
SO	XBADJ	3RX	-45.86	-52.76	-58.06	-61.59	-63.26	-63.00
SO	YBADJ	3RX	-3.36	-12.23	-17.37	-21.98	-25.92	-29.08
SO	YBADJ	3RX	-31.35	-32.67	-33.00	-32.33	-32.33	-30.26
SO	YBADJ	3RX	-27.27	-23.45	-18.92	-13.81	-8.28	-2.50
SO	YBADJ	3RX	3.36	12.23	17.37	21.98	25.92	29.08
SO	YBADJ	3RX	31.35	32.67	33.00	32.33	32.33	30.26
SO	YBADJ	3RX	27.27	23.45	18.92	13.81	8.28	2.50
SO	BUILDHGT	789RX	12.10	12.10	12.10	12.10	12.10	12.10
SO	BUILDHGT	789RX	12.10	12.10	12.10	12.10	12.10	12.10
SO	BUILDHGT	789RX	12.10	12.10	12.10	12.10	12.10	12.10
SO	BUILDHGT	789RX	12.10	12.10	12.10	12.10	12.10	12.10
SO	BUILDHGT	789RX	12.10	12.10	12.10	12.10	12.10	12.10
SO	BUILDHGT	789RX	12.10	12.10	12.10	12.10	12.10	12.10
SO	BUILDWID	789RX	56.31	56.90	58.61	60.06	59.69	57.51
SO	BUILDWID	789RX	53.58	48.02	41.00	32.74	31.71	39.76
SO	BUILDWID	789RX	46.60	52.02	55.86	58.01	58.39	57.00
SO	BUILDWID	789RX	56.31	56.90	58.61	60.06	59.69	57.51
SO	BUILDWID	789RX	53.58	48.02	41.00	32.74	31.71	39.76
SO	BUILDWID	789RX	46.60	52.02	55.86	58.01	58.39	57.00
SO	BUILDLEN	789RX	32.74	31.71	39.76	46.60	52.02	55.86
SO	BUILDLEN	789RX	58.01	58.39	57.00	56.31	56.90	58.61
SO	BUILDLEN	789RX	60.06	59.69	57.51	53.58	48.02	41.00
SO	BUILDLEN	789RX	32.74	31.71	39.76	46.60	52.02	55.86
SO	BUILDLEN	789RX	58.01	58.39	57.00	56.31	56.90	58.61
SO	BUILDLEN	789RX	60.06	59.69	57.51	53.58	48.02	41.00
SO	XBADJ	789RX	-13.68	-9.49	-13.37	-16.84	-19.79	-22.15
SO	XBADJ	789RX	-23.83	-24.79	-25.00	-24.45	-23.15	-23.99
SO	XBADJ	789RX	-25.63	-26.49	-26.55	-25.80	-24.27	-22.00
SO	XBADJ	789RX	-19.06	-22.22	-26.39	-29.76	-32.23	-33.71
SO	XBADJ	789RX	-34.17	-33.60	-32.00	-31.86	-33.75	-34.61
SO	XBADJ	789RX	-34.43	-33.20	-30.95	-27.77	-23.75	-19.00
SO	YBADJ	789RX	-3.71	-5.30	-5.31	-4.40	-3.35	-2.20
SO	YBADJ	789RX	-0.98	0.26	1.50	2.69	6.37	6.51
SO	YBADJ	789RX	6.46	6.22	5.78	5.17	4.40	3.50
SO	YBADJ	789RX	3.71	5.30	5.31	4.40	3.35	2.20
SO	YBADJ	789RX	0.98	-0.26	-1.50	-2.69	-6.37	-6.51
SO	YBADJ	789RX	-6.46	-6.22	-5.78	-5.17	-4.40	-3.50

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** "Chemical Mixing Process Area - South Charleston WV - Ethylene Oxide"

** Srcid Srctyp Xs Ys Zs

SO LOCATION CHMIX AREA 440262 4246838 176.33

** Srcid Aremis Relhgt Xinit (Yinit) (Angle) (Szinit)

SO SRCPARAM CHMIX 6.8851E-07 3.047999902 9.99987808

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** SOURCE GROUPS

** Chemical Mixing Source Group

SO SRCGROUP CHMIX CHMIX

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*****
** Covestro Source Groups
**
** Point Source Groups
**
SO SRCGROUP 1RX 1RX
SO SRCGROUP 2RX 2RX
SO SRCGROUP 3RX 3RX
SO SRCGROUP 789RX 789RX
**
** Covestro All Point Source Group
SO SRCGROUP CPOINT 1RX 2RX 3RX 789RX
**
** Covestro Fugitive Source Groups
SO SRCGROUP CE003F CE003F1 CE003F2
SO SRCGROUP CPIVF CPIVF1 CPIVF2
** Covestro All Fugitive Source Group
SO SRCGROUP CFUGIT CE003F1 CE003F2 CPIVF1 CPIVF2
**
** Covestro All Source Group (Point and Fugitive)
SO SRCGROUP COVESTRO 1RX 2RX 3RX 789RX CE003F1 CE003F2 CPIVF1 CPIVF2
**
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*****
** Triton Source Groups
**
** Triton Point Source Groups
SO SRCGROUP TE10813 E10813
SO SRCGROUP T_L_All L001 L002 L003 L004
SO SRCGROUP T_T_All T8313 T8314 T8320 T8322 T8323
SO SRCGROUP T_T_All T8331 T8334 T8343 T8344 T8360
SO SRCGROUP T_T_All T8361 T8363 T8364 T8373 T8380
SO SRCGROUP T_T_All T8381 T8383 T8390 T8391 T8392 T8393 T8420
** Triton All Point Sources Group
SO SRCGROUP T_POINT E10813
SO SRCGROUP T_POINT L001 L002 L003 L004
SO SRCGROUP T_POINT T8313 T8314 T8320 T8322 T8323
SO SRCGROUP T_POINT T8331 T8334 T8343 T8344 T8360
SO SRCGROUP T_POINT T8361 T8363 T8364 T8373 T8380
SO SRCGROUP T_POINT T8381 T8383 T8390 T8391 T8392 T8393 T8420
** Triton Fugitive Source Groups
SO SRCGROUP THF THF
SO SRCGROUP TRF TRF
SO SRCGROUP TFNC TFNC
** Triton All Fugitive Sources Group
SO SRCGROUP T_FUGIT THF TRF TFNC
** TRITON ALL SOURCES POINT AND FUGITIVE
SO SRCGROUP TRITON E10813
SO SRCGROUP TRITON L001 L002 L003 L004
SO SRCGROUP TRITON T8313 T8314 T8320 T8322 T8323
SO SRCGROUP TRITON T8331 T8334 T8343 T8344 T8360
SO SRCGROUP TRITON T8361 T8363 T8364 T8373 T8380
SO SRCGROUP TRITON T8381 T8383 T8390 T8391 T8392 T8393 T8420
SO SRCGROUP TRITON THF TRF TFNC
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** Oxide Adducts Source Groups
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** Oxide Adducts Point Source Groups
SO SRCGROUP OA_E70XP E704 E705 E706 E707 E708
SO SRCGROUP OA_TALLP T9120 T9121 T9128 T9129 T9151 T9180
SO SRCGROUP OA_TALLP T9181 T9182 T9186 T9187 T9223 T9228
SO SRCGROUP OA_TALLP T9502 T9504 T9505 T9507 T9509 T9510
SO SRCGROUP OA_TALLP T9511 T9512 T9553 T9554 T9555 T9556
SO SRCGROUP OA_TALLP T9562 T9563 T9565 T9568 T9569 T9612
SO SRCGROUP OA_TALLP T9614 T9615 T9616 T9617 T9619 T9622
SO SRCGROUP OA_TALLP T9624 T9625 T9627 T9629 T9632 T9634
SO SRCGROUP OA_TALLP T9635 T9637 T9640 T9643 T9645 T9646
SO SRCGROUP OA_TALLP T9649 T9734 T9736 T9738 T9749 T9798
SO SRCGROUP OA_TALLP T9812 T9814 T9815 T9822 T9824 T9825
SO SRCGROUP OA_LALLP L001TT1 L001TT2 L001TT3 L001TT4 L001TT5 L001TT6
** Oxide Adducts All Point Source Group
SO SRCGROUP OA_POINT E704 E705 E706 E707 E708
SO SRCGROUP OA_POINT T9120 T9121 T9128 T9129 T9151 T9180
SO SRCGROUP OA_POINT T9181 T9182 T9186 T9187 T9223 T9228
SO SRCGROUP OA_POINT T9502 T9504 T9505 T9507 T9509 T9510
SO SRCGROUP OA_POINT T9511 T9512 T9553 T9554 T9555 T9556
SO SRCGROUP OA_POINT T9562 T9563 T9565 T9568 T9569 T9612
SO SRCGROUP OA_POINT T9614 T9615 T9616 T9617 T9619 T9622
SO SRCGROUP OA_POINT T9624 T9625 T9627 T9629 T9632 T9634
SO SRCGROUP OA_POINT T9635 T9637 T9640 T9643 T9645 T9646
SO SRCGROUP OA_POINT T9649 T9734 T9736 T9738 T9749 T9798
SO SRCGROUP OA_POINT T9812 T9814 T9815 T9822 T9824 T9825
SO SRCGROUP OA_POINT L001TT1 L001TT2 L001TT3 L001TT4 L001TT5 L001TT6
** Oxide Adducts Fugitive Source Groups
SO SRCGROUP OAH2F OAH2
SO SRCGROUP OAR45F OAR451 OAR452
SO SRCGROUP OAR6F OAR6
SO SRCGROUP OAR7F OAR7
SO SRCGROUP OAWTILF OAWTIL
SO SRCGROUP OALIBF OALIB1 OALIB2 OALIB3
** Oxide Adducts All Fugitive Source Group
SO SRCGROUP OA_FUGIT OAH2
SO SRCGROUP OA_FUGIT OAR451 OAR452
SO SRCGROUP OA_FUGIT OAR6
SO SRCGROUP OA_FUGIT OAR7
SO SRCGROUP OA_FUGIT OAWTIL
SO SRCGROUP OA_FUGIT OALIB1 OALIB2 OALIB3
** Oxide Adducts - All Sources - Point and Fugitive
SO SRCGROUP OA_ALL E704 E705 E706 E707 E708
SO SRCGROUP OA_ALL T9120 T9121 T9128 T9129 T9151 T9180
SO SRCGROUP OA_ALL T9181 T9182 T9186 T9187 T9223 T9228
SO SRCGROUP OA_ALL T9502 T9504 T9505 T9507 T9509 T9510
SO SRCGROUP OA_ALL T9511 T9512 T9553 T9554 T9555 T9556
SO SRCGROUP OA_ALL T9562 T9563 T9565 T9568 T9569 T9612
SO SRCGROUP OA_ALL T9614 T9615 T9616 T9617 T9619 T9622
SO SRCGROUP OA_ALL T9624 T9625 T9627 T9629 T9632 T9634
SO SRCGROUP OA_ALL T9635 T9637 T9640 T9643 T9645 T9646
SO SRCGROUP OA_ALL T9649 T9734 T9736 T9738 T9749 T9798
SO SRCGROUP OA_ALL T9812 T9814 T9815 T9822 T9824 T9825
SO SRCGROUP OA_ALL L001TT1 L001TT2 L001TT3 L001TT4 L001TT5 L001TT6
SO SRCGROUP OA_ALL OAH2
SO SRCGROUP OA_ALL OAR451 OAR452
SO SRCGROUP OA_ALL OAR6
SO SRCGROUP OA_ALL OAR7
SO SRCGROUP OA_ALL OAWTIL
SO SRCGROUP OA_ALL OALIB1 OALIB2 OALIB3
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** UCC - South Charleston Source Group - Oxide Adducts, Triton, Chemical
Mixing
** Oxide Adducts
SO SRCGROUP UCC_SC E704 E705 E706 E707 E708
SO SRCGROUP UCC_SC T9120 T9121 T9128 T9129 T9151 T9180
SO SRCGROUP UCC_SC T9181 T9182 T9186 T9187 T9223 T9228
SO SRCGROUP UCC_SC T9502 T9504 T9505 T9507 T9509 T9510
SO SRCGROUP UCC_SC T9511 T9512 T9553 T9554 T9555 T9556
SO SRCGROUP UCC_SC T9562 T9563 T9565 T9568 T9569 T9612
SO SRCGROUP UCC_SC T9614 T9615 T9616 T9617 T9619 T9622
SO SRCGROUP UCC_SC T9624 T9625 T9627 T9629 T9632 T9634
SO SRCGROUP UCC_SC T9635 T9637 T9640 T9643 T9645 T9646
SO SRCGROUP UCC_SC T9649 T9734 T9736 T9738 T9749 T9798
SO SRCGROUP UCC_SC T9812 T9814 T9815 T9822 T9824 T9825
SO SRCGROUP UCC_SC L001TT1 L001TT2 L001TT3 L001TT4 L001TT5 L001TT6
SO SRCGROUP UCC_SC OADR2
SO SRCGROUP UCC_SC OAR451 OAR452
SO SRCGROUP UCC_SC OAR6
SO SRCGROUP UCC_SC OAR7
SO SRCGROUP UCC_SC OAWTIL
SO SRCGROUP UCC_SC OALIB1 OALIB2 OALIB3
** Triton
SO SRCGROUP UCC_SC E10813
SO SRCGROUP UCC_SC L001 L002 L003 L004
SO SRCGROUP UCC_SC T8313 T8314 T8320 T8322 T8323
SO SRCGROUP UCC_SC T8331 T8334 T8343 T8344 T8360
SO SRCGROUP UCC_SC T8361 T8363 T8364 T8373 T8380
SO SRCGROUP UCC_SC T8381 T8383 T8390 T8391 T8392 T8393 T8420
SO SRCGROUP UCC_SC THF TRF TFNC
** Chemical Mixing
SO SRCGROUP UCC_SC CHMIX
```



March Monitoring Event AERMOD Source Input: Institute

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** WVDAQ - Monitoring Event 3 **
** 2022 Event 3 Emissions **
**
** Ethylene Oxide - Institute, WV - EO Distribution and POLYOX
** Specialty Products US LLC (POLYOX plant facility 54-039-00005 )
** Polyox - Institute Point Sources
** Emission Rates for the March 24-24, 2022 Monitoring Event
** LOCATION SOURCE ID UTM_E UTM_W ELEV (m)
LOCATION 221A POINT 431513.4933 4248834.413 181.53
LOCATION 230M POINT 432213.6261 4248385.614 181.64
LOCATION 230L POINT 432200.8493 4248393.156 181.74
LOCATION 230K POINT 432191.221 4248390.796 181.63
LOCATION 2300 POINT 432192.7629 4248376.801 181.62
LOCATION 230HH POINT 432172.9967 4248384.18 181.56
** SrcID Ptemis Stkhgt Stktmp Stkvel Stkdia
** (g/s) (m) (K) (m/s) (m)
SRCPARAM 221A 4.5359E-03 35.6616 866.4833333 4.81584 0.254
SRCPARAM 230M 2.7468E-03 4.572 318.15 16.608552 0.040894
SRCPARAM 230L 1.2890E-02 4.572 318.15 22.823424 0.040894
SRCPARAM 230K 2.6699E-03 4.572 318.15 51.499008 0.040894
SRCPARAM 2300 2.7543E-03 27.432 318.15 2.618232 0.200406
SRCPARAM 230HH 0 0.9144 0 4.572 0.01905
**
** BPIP Parameters
**
SO BUILDHGT 230HH 7.00 0.00 0.00 0.00 25.90 25.90
SO BUILDHGT 230HH 25.90 25.90 25.90 25.90 0.00 0.00
SO BUILDHGT 230HH 0.00 0.00 0.00 0.00 0.00 0.00
SO BUILDHGT 230HH 7.00 7.00 7.00 7.00 25.90 25.90
SO BUILDHGT 230HH 25.90 25.90 25.90 25.90 0.00 0.00
SO BUILDHGT 230HH 0.00 0.00 0.00 0.00 0.00 0.00
SO BUILDWID 230HH 48.55 0.00 0.00 0.00 22.09 24.75
SO BUILDWID 230HH 26.65 27.75 28.00 27.40 0.00 0.00
SO BUILDWID 230HH 0.00 0.00 0.00 0.00 0.00 0.00
SO BUILDWID 230HH 27.75 23.66 20.22 22.87 22.09 24.75
SO BUILDWID 230HH 26.65 27.75 28.00 27.40 0.00 0.00
SO BUILDWID 230HH 0.00 0.00 0.00 0.00 0.00 0.00
SO BUILDLEN 230HH 39.34 0.00 0.00 0.00 30.33 30.88
SO BUILDLEN 230HH 30.50 29.19 27.00 23.99 0.00 0.00
SO BUILDLEN 230HH 0.00 0.00 0.00 0.00 0.00 0.00
SO BUILDLEN 230HH 30.99 30.16 30.38 32.18 30.33 30.88
SO BUILDLEN 230HH 30.50 29.19 27.00 23.99 0.00 0.00
SO BUILDLEN 230HH 0.00 0.00 0.00 0.00 0.00 0.00
SO XBADJ 230HH 12.04 0.00 0.00 0.00 27.75 28.88
SO XBADJ 230HH 29.13 28.50 27.00 24.68 0.00 0.00
SO XBADJ 230HH 0.00 0.00 0.00 0.00 0.00 0.00
SO XBADJ 230HH -51.38 -52.20 -51.44 -51.61 -58.08 -59.77
SO XBADJ 230HH -59.64 -57.69 -54.00 -48.66 0.00 0.00
SO XBADJ 230HH 0.00 0.00 0.00 0.00 0.00 0.00
SO YBADJ 230HH -24.39 0.00 0.00 0.00 -11.48 -3.80
SO YBADJ 230HH 4.00 11.68 19.00 25.74 0.00 0.00
SO YBADJ 230HH 0.00 0.00 0.00 0.00 0.00 0.00
SO YBADJ 230HH 13.99 8.06 1.20 -6.27 11.48 3.80
SO YBADJ 230HH -4.00 -11.68 -19.00 -25.74 0.00 0.00
SO YBADJ 230HH 0.00 0.00 0.00 0.00 0.00 0.00

SO BUILDHGT 2300 25.90 25.90 25.90 25.90 25.90 25.90
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SO BUILDHGT 2300	25.90	25.90	0.00	0.00	0.00	0.00
SO BUILDHGT 2300	0.00	0.00	7.00	7.00	25.90	25.90
SO BUILDHGT 2300	25.90	25.90	25.90	25.90	25.90	25.90
SO BUILDHGT 2300	25.90	25.90	0.00	0.00	0.00	0.00
SO BUILDHGT 2300	0.00	0.00	7.00	7.00	25.90	25.90
SO BUILDWID 2300	23.99	20.24	15.88	18.76	22.09	24.28
SO BUILDWID 2300	24.28	24.28	0.00	0.00	0.00	0.00
SO BUILDWID 2300	0.00	0.00	34.85	34.60	24.28	24.28
SO BUILDWID 2300	23.99	20.24	15.88	18.76	22.09	24.28
SO BUILDWID 2300	24.28	24.28	0.00	0.00	0.00	0.00
SO BUILDWID 2300	0.00	0.00	45.30	48.35	24.28	24.28
SO BUILDLEN 2300	27.40	25.97	26.49	28.85	30.33	30.88
SO BUILDLEN 2300	30.50	29.19	0.00	0.00	0.00	0.00
SO BUILDLEN 2300	0.00	0.00	29.21	31.10	27.75	28.00
SO BUILDLEN 2300	27.40	25.97	26.49	28.85	30.33	30.88
SO BUILDLEN 2300	30.50	29.19	0.00	0.00	0.00	0.00
SO BUILDLEN 2300	0.00	0.00	49.61	49.21	27.75	28.00
SO XBADJ 2300	16.45	19.40	19.95	19.05	17.58	15.56
SO XBADJ 2300	13.08	10.19	0.00	0.00	0.00	0.00
SO XBADJ 2300	0.00	0.00	-50.36	-54.25	-36.90	-41.00
SO XBADJ 2300	-43.85	-45.37	-46.44	-47.90	-47.90	-46.44
SO XBADJ 2300	-43.58	-39.39	0.00	0.00	0.00	0.00
SO XBADJ 2300	0.00	0.00	0.76	5.03	9.16	13.00
SO YBADJ 2300	-15.59	-10.20	-4.50	1.65	7.51	13.13
SO YBADJ 2300	18.36	23.03	0.00	0.00	0.00	0.00
SO YBADJ 2300	0.00	0.00	18.57	12.53	24.79	20.50
SO YBADJ 2300	15.59	10.20	4.50	-1.65	-7.51	-13.13
SO YBADJ 2300	-18.36	-23.03	0.00	0.00	0.00	0.00
SO YBADJ 2300	0.00	0.00	-23.79	-19.40	-24.79	-20.50

SO BUILDHGT 230K	25.90	25.90	25.90	25.90	25.90	25.90
SO BUILDHGT 230K	25.90	25.90	25.90	25.90	25.90	25.90
SO BUILDHGT 230K	25.90	25.90	25.90	25.90	25.90	25.90
SO BUILDHGT 230K	25.90	25.90	25.90	25.90	25.90	25.90
SO BUILDHGT 230K	25.90	25.90	25.90	25.90	25.90	25.90
SO BUILDWID 230K	23.99	20.24	15.88	18.76	22.09	24.75
SO BUILDWID 230K	26.65	27.75	28.00	27.40	25.97	26.49
SO BUILDWID 230K	28.85	30.33	30.88	30.50	29.19	27.00
SO BUILDWID 230K	23.99	20.24	15.88	18.76	22.09	24.75
SO BUILDWID 230K	26.65	27.75	28.00	27.40	25.97	26.49
SO BUILDWID 230K	28.85	30.33	30.88	30.50	29.19	27.00
SO BUILDLEN 230K	27.40	25.97	26.49	28.85	30.33	30.88
SO BUILDLEN 230K	30.50	29.19	27.00	23.99	20.24	15.88
SO BUILDLEN 230K	18.76	22.09	24.75	26.65	27.75	28.00
SO BUILDLEN 230K	27.40	25.97	26.49	28.85	30.33	30.88
SO BUILDLEN 230K	30.50	29.19	27.00	23.99	20.24	15.88
SO BUILDLEN 230K	18.76	22.09	24.75	26.65	27.75	28.00
SO XBADJ 230K	2.84	6.58	8.33	8.97	9.34	9.43
SO XBADJ 230K	9.23	8.75	8.00	7.01	5.81	4.43
SO XBADJ 230K	-1.27	-7.18	-12.88	-18.19	-22.94	-27.00
SO XBADJ 230K	-30.24	-32.55	-34.82	-37.82	-39.67	-40.31
SO XBADJ 230K	-39.73	-37.94	-35.00	-31.00	-26.05	-20.31
SO XBADJ 230K	-17.50	-14.91	-11.87	-8.46	-4.81	-1.00
SO YBADJ 230K	-19.00	-15.93	-12.37	-8.11	-3.86	0.51
SO YBADJ 230K	4.86	9.07	13.00	16.54	19.57	21.58
SO YBADJ 230K	23.40	24.50	24.87	24.48	23.34	21.50
SO YBADJ 230K	19.00	15.93	12.37	8.11	3.86	-0.51
SO YBADJ 230K	-4.86	-9.07	-13.00	-16.54	-19.57	-21.58



SO	YBADJ	230K	-23.40	-24.50	-24.87	-24.48	-23.34	-21.50
SO	BUILDHGT	230L	25.90	25.90	25.90	25.90	25.90	25.90
SO	BUILDHGT	230L	25.90	25.90	25.90	25.90	25.90	25.90
SO	BUILDHGT	230L	25.90	25.90	25.90	25.90	25.90	25.90
SO	BUILDHGT	230L	25.90	25.90	25.90	25.90	25.90	25.90
SO	BUILDHGT	230L	25.90	25.90	25.90	25.90	25.90	25.90
SO	BUILDWID	230L	23.99	20.24	15.88	18.76	22.09	24.75
SO	BUILDWID	230L	26.65	27.75	28.00	27.40	25.97	26.49
SO	BUILDWID	230L	28.85	30.33	30.88	30.50	29.19	27.00
SO	BUILDWID	230L	23.99	20.24	15.88	18.76	22.09	24.75
SO	BUILDWID	230L	26.65	27.75	28.00	27.40	25.97	26.49
SO	BUILDWID	230L	28.85	30.33	30.88	30.50	29.19	27.00
SO	BUILDLN	230L	27.40	25.97	26.49	28.85	30.33	30.88
SO	BUILDLN	230L	30.50	29.19	27.00	23.99	20.24	15.88
SO	BUILDLN	230L	18.76	22.09	24.75	26.65	27.75	28.00
SO	BUILDLN	230L	27.40	25.97	26.49	28.85	30.33	30.88
SO	BUILDLN	230L	30.50	29.19	27.00	23.99	20.24	15.88
SO	BUILDLN	230L	18.76	22.09	24.75	26.65	27.75	28.00
SO	XBADJ	230L	-1.68	0.69	1.23	0.89	0.52	0.13
SO	XBADJ	230L	-0.26	-0.64	-1.00	-1.33	-1.62	-1.87
SO	XBADJ	230L	-6.23	-10.67	-14.78	-18.45	-21.55	-24.00
SO	XBADJ	230L	-25.72	-26.66	-27.72	-29.74	-30.84	-31.02
SO	XBADJ	230L	-30.25	-28.56	-26.00	-22.65	-18.62	-14.02
SO	XBADJ	230L	-12.53	-11.42	-9.96	-8.21	-6.20	-4.00
SO	YBADJ	230L	-10.66	-8.50	-6.08	-3.15	-0.37	2.41
SO	YBADJ	230L	5.12	7.68	10.00	12.02	13.67	14.48
SO	YBADJ	230L	15.31	15.68	15.58	15.00	13.96	12.50
SO	YBADJ	230L	10.66	8.50	6.08	3.15	0.37	-2.41
SO	YBADJ	230L	-5.12	-7.68	-10.00	-12.02	-13.67	-14.48
SO	YBADJ	230L	-15.31	-15.68	-15.58	-15.00	-13.96	-12.50
SO	BUILDHGT	230M	25.90	25.90	25.90	25.90	25.90	25.90
SO	BUILDHGT	230M	25.90	25.90	25.90	25.90	25.90	25.90
SO	BUILDHGT	230M	25.90	25.90	25.90	25.90	25.90	25.90
SO	BUILDHGT	230M	25.90	25.90	25.90	25.90	25.90	25.90
SO	BUILDHGT	230M	25.90	25.90	25.90	25.90	25.90	25.90
SO	BUILDWID	230M	23.99	20.24	15.88	18.76	22.09	24.75
SO	BUILDWID	230M	26.65	27.75	28.00	27.40	25.97	26.49
SO	BUILDWID	230M	28.85	30.33	30.88	30.50	29.19	27.00
SO	BUILDWID	230M	23.99	20.24	15.88	18.76	22.09	24.75
SO	BUILDWID	230M	26.65	27.75	28.00	27.40	25.97	26.49
SO	BUILDWID	230M	28.85	30.33	30.88	30.50	29.19	27.00
SO	BUILDLN	230M	27.40	25.97	26.49	28.85	30.33	30.88
SO	BUILDLN	230M	30.50	29.19	27.00	23.99	20.24	15.88
SO	BUILDLN	230M	18.76	22.09	24.75	26.65	27.75	28.00
SO	BUILDLN	230M	27.40	25.97	26.49	28.85	30.33	30.88
SO	BUILDLN	230M	30.50	29.19	27.00	23.99	20.24	15.88
SO	BUILDLN	230M	18.76	22.09	24.75	26.65	27.75	28.00
SO	XBADJ	230M	3.94	3.76	1.66	-1.34	-4.30	-7.12
SO	XBADJ	230M	-9.74	-12.05	-14.00	-15.52	-16.58	-17.12
SO	XBADJ	230M	-21.34	-25.16	-28.21	-30.41	-31.69	-32.00
SO	XBADJ	230M	-31.34	-29.73	-28.15	-27.51	-26.03	-23.76
SO	XBADJ	230M	-20.77	-17.14	-13.00	-8.46	-3.67	1.24
SO	XBADJ	230M	2.57	3.06	3.46	3.76	3.94	4.00
SO	YBADJ	230M	3.53	6.46	9.18	11.95	14.11	15.84



SO	YBADJ	230M	17.09	17.81	18.00	17.64	16.74	14.91
SO	YBADJ	230M	13.08	10.87	8.32	5.52	2.55	-0.50
SO	YBADJ	230M	-3.53	-6.46	-9.18	-11.95	-14.11	-15.84
SO	YBADJ	230M	-17.09	-17.81	-18.00	-17.64	-16.74	-14.91
SO	YBADJ	230M	-13.08	-10.87	-8.32	-5.52	-2.55	0.50

SO	BUILDHGT	221A	0.00	0.00	0.00	0.00	0.00	0.00
SO	BUILDHGT	221A	0.00	0.00	0.00	0.00	0.00	0.00
SO	BUILDHGT	221A	0.00	0.00	0.00	0.00	0.00	0.00
SO	BUILDHGT	221A	0.00	0.00	0.00	0.00	0.00	0.00
SO	BUILDHGT	221A	0.00	0.00	0.00	0.00	0.00	0.00
SO	BUILDHGT	221A	0.00	0.00	0.00	0.00	0.00	0.00
SO	BUILDWID	221A	0.00	0.00	0.00	0.00	0.00	0.00
SO	BUILDWID	221A	0.00	0.00	0.00	0.00	0.00	0.00
SO	BUILDWID	221A	0.00	0.00	0.00	0.00	0.00	0.00
SO	BUILDWID	221A	0.00	0.00	0.00	0.00	0.00	0.00
SO	BUILDWID	221A	0.00	0.00	0.00	0.00	0.00	0.00
SO	BUILDWID	221A	0.00	0.00	0.00	0.00	0.00	0.00
SO	BUILDLEN	221A	0.00	0.00	0.00	0.00	0.00	0.00
SO	BUILDLEN	221A	0.00	0.00	0.00	0.00	0.00	0.00
SO	BUILDLEN	221A	0.00	0.00	0.00	0.00	0.00	0.00
SO	BUILDLEN	221A	0.00	0.00	0.00	0.00	0.00	0.00
SO	BUILDLEN	221A	0.00	0.00	0.00	0.00	0.00	0.00
SO	BUILDLEN	221A	0.00	0.00	0.00	0.00	0.00	0.00
SO	XBADJ	221A	0.00	0.00	0.00	0.00	0.00	0.00
SO	XBADJ	221A	0.00	0.00	0.00	0.00	0.00	0.00
SO	XBADJ	221A	0.00	0.00	0.00	0.00	0.00	0.00
SO	XBADJ	221A	0.00	0.00	0.00	0.00	0.00	0.00
SO	XBADJ	221A	0.00	0.00	0.00	0.00	0.00	0.00
SO	XBADJ	221A	0.00	0.00	0.00	0.00	0.00	0.00
SO	YBADJ	221A	0.00	0.00	0.00	0.00	0.00	0.00
SO	YBADJ	221A	0.00	0.00	0.00	0.00	0.00	0.00
SO	YBADJ	221A	0.00	0.00	0.00	0.00	0.00	0.00
SO	YBADJ	221A	0.00	0.00	0.00	0.00	0.00	0.00
SO	YBADJ	221A	0.00	0.00	0.00	0.00	0.00	0.00
SO	YBADJ	221A	0.00	0.00	0.00	0.00	0.00	0.00

**

** Polyox - Institute Fugitive Sources

**

** Srcid Srctyp Xs Ys Zs
LOCATION POLYVOL1 VOLUME 432175 4248394 181.6

** Srcid Vlemis Relhgt Syint Szint
SRCPARAM POLYVOL1 6.9299E-04 4.572 3.023255814 4.253023256

**

** Srcid Srctyp Xs Ys Zs
LOCATION BL8389A1 VOLUME 432195 4248382 181.66
LOCATION BL8389A2 VOLUME 432191 4248374 181.66
LOCATION BL8389B1 VOLUME 432195 4248382 181.66
LOCATION BL8389B2 VOLUME 432191 4248374 181.66

** Srcid Vlemis Relhgt Syint Szint
SRCPARAM BL8389A1 3.1499E-05 13.716 3.990697674 2.126511628
SRCPARAM BL8389A2 3.1499E-05 13.716 3.990697674 2.126511628
SRCPARAM BL8389B1 1.0710E-04 22.86 3.990697674 2.126511628
SRCPARAM BL8389B2 1.0710E-04 22.86 3.990697674 2.126511628

**

** EO Distribution - Institute, WV

** Point Sources

** Srcid Srctyp Xs Ys Zs
LOCATION EODISTFL POINT 431659.87 4248946.05 181.6



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** SrcID Ptemis Stkhgt Stktmp Stkvel Stkdia
SRCPARAM EODISTFL 5.1856E-03 27.432 866.4833333 8.6868 0.100584
** Fugitive Sources
** Railcar Unloading
** Srcid Srctyp Xs Ys Zs
LOCATION Rail1 VOLUME 431609 4248856 182.332
LOCATION Rail2 VOLUME 431616 4248851 182.332
LOCATION Rail3 VOLUME 431624 4248847 182.332
LOCATION Rail4 VOLUME 431632 4248843 182.332
LOCATION Rail5 VOLUME 431640 4248837 182.332
** Srcid Vlemis Relhgt Syint Szint
SRCPARAM Rail1 0.00039555 5.62002432 4.76744186 0.34568573
SRCPARAM Rail2 0.00039555 5.62002432 4.76744186 0.34568573
SRCPARAM Rail3 0.00039555 5.62002432 4.76744186 0.34568573
SRCPARAM Rail4 0.00039555 5.62002432 4.76744186 0.34568573
SRCPARAM Rail5 0.00039555 5.62002432 4.76744186 0.34568573
** Pumps/Diked Area
** Srcid Srctyp Xs Ys Zs
LOCATION PUMP1 VOLUME 431612 4248893 182.55
LOCATION PUMP2 VOLUME 431620 4248889 182.55
LOCATION PUMP3 VOLUME 431630 4248884 182.55
** Srcid Vlemis Relhgt Syint Szint
SRCPARAM PUMP1 0.0010703 2.4384 5.576744186 0.567069767
SRCPARAM PUMP2 0.0010703 2.4384 5.576744186 0.567069767
SRCPARAM PUMP3 0.0010703 2.4384 5.576744186 0.567069767
** Tanks Area
** Srcid Srctyp Xs Ys Zs
LOCATION TANKS1 VOLUME 431587 4248907 182.76
LOCATION TANKS2 VOLUME 431599 4248903 182.76
** Srcid Vlemis Relhgt Syint Szint
SRCPARAM TANKS1 0.00090102 5.4864 5.786046512 0.283534884
SRCPARAM TANKS2 0.00090102 5.4864 5.786046512 0.283534884
** Flare Area
** Srcid Srctyp Xs Ys Zs
LOCATION FLAREFU1 VOLUME 431658 4248944 182.87
LOCATION FLAREFU2 VOLUME 431653 4248936 182.87
** Srcid Vlemis Relhgt Syint Szint
SRCPARAM FLAREFU1 2.3689E-04 2.4384 3.688372093 0.283534884
SRCPARAM FLAREFU2 2.3689E-04 2.4384 3.688372093 0.283534884
** Area Near Rt. 25
** Srcid Srctyp Xs Ys Zs
LOCATION R251 VOLUME 431873 4249163 183.655
LOCATION R252 VOLUME 431877 4249161 183.655
** Srcid Vlemis Relhgt Syint Szint
SRCPARAM R251 5.7806E-05 1.0668 1.8 0.354418605
SRCPARAM R252 5.7806E-05 1.0668 1.8 0.354418605
**
** EO DISTRIBUTION Source Groups
** Point Source Groups
SRCGROUP EODISTFL EODISTFL
SRCGROUP EODPOINT EODISTFL
** Fugitive Source Groups
SRCGROUP EODRAILF Rail1 Rail2 Rail3 Rail4 Rail5
SRCGROUP EODPUMPF PUMP1 PUMP2 PUMP3
SRCGROUP EODTANKF TANKS1 TANKS2
SRCGROUP EODFLARF FLAREFU1 FLAREFU2
SRCGROUP EODR25F R251 R252
SRCGROUP EODFUGI Rail1 Rail2 Rail3 Rail4 Rail5 PUMP1 PUMP2 PUMP3
SRCGROUP EODFUGI TANKS1 TANKS2 FLAREFU1 FLAREFU2 R251 R252
** EO DISTRIBUTION ALL (Point and Fugitive)
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SRCGROUP EODIST EODISTFL
SRCGROUP EODIST Rail1 Rail2 Rail3 Rail4 Rail5 PUMP1 PUMP2 PUMP3
SRCGROUP EODIST TANKS1 TANKS2 FLAREFU1 FLAREFU2 R251 R252
**
** Polyox Source Groups
** Point Source Groups
**
SRCGROUP 221A 221A
SRCGROUP 230M 230M
SRCGROUP 230L 230L
SRCGROUP 230K 230K
SRCGROUP 230O 230O
SRCGROUP 230HH 230HH
SRCGROUP PPOINT 221A 230M 230L 230K 230O 230HH
**
** Fugitive Source Groups
**
SRCGROUP POLYVOL1 POLYVOL1
SRCGROUP PBL8389 BL8389A1 BL8389A2 BL8389B1 BL8389B2
SRCGROUP PFUGIT POLYVOL1 BL8389A1 BL8389A2 BL8389B1 BL8389B2
**
** POLYOX All Source Groups (Point and Fugitive)
**
SRCGROUP POLYOX 221A 230M 230L 230K 230O 230HH
SRCGROUP POLYOX POLYVOL1 BL8389A1 BL8389A2 BL8389B1 BL8389B2
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March Monitoring Event AERMOD Source Input: South Charleston

**Ethylene oxide - South Charleston, WV Monitoring Event #3 (Mar 23-24, 2022)

**Oxide Adducts; Triton; Covestro; Chemical Mixing

**

** Ethylene Oxide - ALL South Charleston, WV Process Areas

**

** Union Carbide Corporation - Oxide Adducts - Plant ID 03900003

** Oxide Adducts Point Sources

**

** Srcid Srctyp Xs Ys Zs

SO LOCATION E704 POINT 439727.0898 4247132.136 181.84

SO LOCATION E705 POINT 439676.2355 4247142.393 182.66

SO LOCATION E706 POINT 439676.2355 4247142.393 182.66

SO LOCATION E707 POINT 439711.3862 4247111.614 184.05

SO LOCATION E708 POINT 439675.5865 4247090.687 184.41

**

** SrcID Ptemis Stkhgt Stktmp Stkvel Stkdia

** (g/s) (m) (K) (m/s) (m)

SO SRCPARAM E704 0 9.144 353.15 65.61836 0.024384

SO SRCPARAM E705 6.4049E-03 9.144 353.15 65.61836 0.024384

SO SRCPARAM E706 0 9.144 353.15 65.61836 0.024384

SO SRCPARAM E707 0 10.9728 353.15 49.1744 0.024384

SO SRCPARAM E708 3.3599E-03 12.192 353.15 18.53184 0.039624

**

** Srcid Srctyp Xs Ys Zs

SO LOCATION T9120 POINT 439685.8352 4247106.035 184.07

SO LOCATION T9121 POINT 439685.8352 4247106.035 184.07

SO LOCATION T9128 POINT 439723.4114 4247107.529 183.89

SO LOCATION T9129 POINT 439723.4114 4247107.529 183.89

SO LOCATION T9151 POINT 439694.594 4247109.076 184.05

SO LOCATION T9180 POINT 439706.8896 4247106.099 184.25

SO LOCATION T9181 POINT 439706.8896 4247106.099 184.25

SO LOCATION T9182 POINT 439706.8896 4247106.099 184.25

SO LOCATION T9186 POINT 439666.5424 4247084.54 184.3

SO LOCATION T9187 POINT 439666.5424 4247084.54 184.3

SO LOCATION T9223 POINT 439665.6512 4247093.868 184.07

SO LOCATION T9228 POINT 439694.3836 4247104.306 184.13

SO LOCATION T9502 POINT 439720.7695 4247128.078 183.17

SO LOCATION T9504 POINT 439679.6315 4247140.925 183.01

SO LOCATION T9505 POINT 439678.6308 4247135.606 183.28

SO LOCATION T9507 POINT 438886.7718 4136148.361 183.29

SO LOCATION T9509 POINT 439638.2105 4247104.283 183.92

SO LOCATION T9510 POINT 439647.5443 4247102.437 183.85

SO LOCATION T9511 POINT 439649.2697 4247111.191 183.78

SO LOCATION T9512 POINT 439655.838 4247113.361 183.74

SO LOCATION T9553 POINT 439767.2389 4247080.458 183.94

SO LOCATION T9554 POINT 439773.7782 4247078.745 183.94

SO LOCATION T9555 POINT 439773.7782 4247078.745 183.94

SO LOCATION T9556 POINT 439758.9003 4247075.194 183.97

SO LOCATION T9562 POINT 439747.3508 4247084.491 184.17

SO LOCATION T9563 POINT 439744.9134 4247073.967 184.24

SO LOCATION T9565 POINT 439773.6592 4247051.115 184.38

SO LOCATION T9568 POINT 439775.3753 4247058.648 184.32

SO LOCATION T9569 POINT 439794.994 4247053.619 184.22

SO LOCATION T9612 POINT 439717.9824 4247129.208 183.23



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SO LOCATION T9614 POINT 439684.0875 4247141.002 182.55
SO LOCATION T9615 POINT 439681.9445 4247134.804 183.22
SO LOCATION T9616 POINT 439666.5424 4247084.54 184.3
SO LOCATION T9617 POINT 439717.7941 4247104.02 184.24
SO LOCATION T9619 POINT 439654.9674 4247137.114 183.34
SO LOCATION T9622 POINT 439717.9824 4247129.208 183.23
SO LOCATION T9624 POINT 439684.0875 4247141.002 182.55
SO LOCATION T9625 POINT 439681.9445 4247134.804 183.22
SO LOCATION T9627 POINT 439717.7941 4247104.02 184.24
SO LOCATION T9629 POINT 439654.9674 4247137.114 183.34
SO LOCATION T9632 POINT 439805.7771 4246976.749 184.65
SO LOCATION T9634 POINT 439779.5329 4247018.78 184.65
SO LOCATION T9635 POINT 439775.4267 4247007.048 184.61
SO LOCATION T9637 POINT 439801.5726 4247045.469 184.47
SO LOCATION T9640 POINT 439800.0875 4247045.48 184.46
SO LOCATION T9643 POINT 439793.4584 4247046.861 184.31
SO LOCATION T9645 POINT 439793.4584 4247046.861 184.31
SO LOCATION T9646 POINT 439788.6277 4247055.109 184.21
SO LOCATION T9649 POINT 439780.6377 4247049.731 184.31
SO LOCATION T9734 POINT 439644.6571 4247125.207 183.55
SO LOCATION T9736 POINT 439648.584 4247124.623 183.58
SO LOCATION T9738 POINT 439652.1564 4247123.376 183.57
SO LOCATION T9749 POINT 439718.7008 4247108.452 184.03
SO LOCATION T9798 POINT 439726.2124 4247119.936 183.28
SO LOCATION T9812 POINT 439704.6444 4247132.97 182.55
SO LOCATION T9814 POINT 439697.2524 4247137.464 181.85
SO LOCATION T9815 POINT 439696.1627 4247131.924 183.06
SO LOCATION T9822 POINT 439704.6444 4247132.97 182.55
SO LOCATION T9824 POINT 439697.2524 4247137.464 181.85
SO LOCATION T9825 POINT 439696.1627 4247131.924 183.06
**
** SrcID Ptemis stkhgt stktmp stkvel stkdia
** (g/s) (m) (K) (m/s) (m)
SO SRCPARAM T9120 1.6952E-06 6.7056 0 0.099579281 0.2032
SO SRCPARAM T9121 1.6952E-06 6.7056 0 0.099579281 0.2032
SO SRCPARAM T9128 1.6952E-06 7.3152 0 0.101393412 0.1524
SO SRCPARAM T9129 0 7.3152 0 0.099579281 0.2032
SO SRCPARAM T9151 0 5.4864 0 0.077032657 0.1016
SO SRCPARAM T9180 1.6952E-06 7.62 0 0.099579281 0.2032
SO SRCPARAM T9181 1.6952E-06 7.62 0 0.099579281 0.2032
SO SRCPARAM T9182 1.6952E-06 7.62 0 0.099579281 0.2032
SO SRCPARAM T9186 1.6952E-06 18.8976 0 0.099579281 0.2032
SO SRCPARAM T9187 1.6952E-06 18.8976 0 0.099579281 0.2032
SO SRCPARAM T9223 1.6952E-06 6.4008 0 0.099579281 0.2032
SO SRCPARAM T9228 1.6952E-06 5.7912 0 0.099579281 0.2032
SO SRCPARAM T9502 1.6952E-06 13.716 0 0.099579281 0.2032
SO SRCPARAM T9504 1.6952E-06 13.716 0 0.099579281 0.2032
SO SRCPARAM T9505 1.6952E-06 13.716 0 0.099579281 0.2032
SO SRCPARAM T9507 1.6952E-06 5.4864 0 0.099579281 0.2032
SO SRCPARAM T9509 1.6952E-06 9.144 0 0.14591763 0.2032
SO SRCPARAM T9510 1.6952E-06 9.144 0 0.0068962 0.508
SO SRCPARAM T9511 1.6952E-06 9.144 0 0.326648095 0.1016
SO SRCPARAM T9512 1.6952E-06 9.144 0 0.40442145 0.1016
SO SRCPARAM T9553 1.6952E-06 18.8976 0 0.063048267 0.254
SO SRCPARAM T9554 1.6952E-06 18.8976 0 0.101846061 0.2032
SO SRCPARAM T9555 1.6952E-06 18.8976 0 0.154846751 0.2032
SO SRCPARAM T9556 1.6952E-06 18.8976 0 0.106290253 0.2032
SO SRCPARAM T9562 1.6952E-06 9.7536 0 0.022369099 0.508
SO SRCPARAM T9563 1.6952E-06 9.7536 0 0.019672956 0.508
SO SRCPARAM T9565 1.6952E-06 6.7056 0 0.079639916 0.254
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SO SRCPARAM T9568 1.6952E-06 6.7056 0 0.031572279 0.4064
SO SRCPARAM T9569 1.6952E-06 7.62 0 0.044441918 0.2032
SO SRCPARAM T9612 1.6952E-06 13.4112 0 0.099579281 0.2032
SO SRCPARAM T9614 1.6952E-06 13.716 0 0.037034931 0.2032
SO SRCPARAM T9615 1.6952E-06 13.716 0 0.099579281 0.2032
SO SRCPARAM T9616 0 18.8976 0 0.144362162 0.2032
SO SRCPARAM T9617 1.6952E-06 18.8976 0 0.110610995 0.1524
SO SRCPARAM T9619 1.6952E-06 19.5072 0 0.132733194 0.2032
SO SRCPARAM T9622 1.6952E-06 13.4112 0 0.099579281 0.2032
SO SRCPARAM T9624 1.6952E-06 13.716 0 0.108142 0.2032
SO SRCPARAM T9625 1.6952E-06 13.716 0 0.099579281 0.2032
SO SRCPARAM T9627 1.6952E-06 18.8976 0 0.099579281 0.2032
SO SRCPARAM T9629 1.6952E-06 19.5072 0 0.148139725 0.2032
SO SRCPARAM T9632 1.6952E-06 6.096 0 0.2696143 0.1016
SO SRCPARAM T9634 1.6952E-06 6.4008 0 0.222209588 0.1016
SO SRCPARAM T9635 0 6.4008 0 0.303686437 0.1016
SO SRCPARAM T9637 1.6952E-06 7.62 0 0.123120572 0.1524
SO SRCPARAM T9640 1.6952E-06 7.62 0 0.207395616 0.1524
SO SRCPARAM T9643 1.6952E-06 7.62 0 0.089871433 0.1524
SO SRCPARAM T9645 1.6952E-06 7.62 0 0.121803774 0.1524
SO SRCPARAM T9646 1.6952E-06 7.62 0 0.241467752 0.1016
SO SRCPARAM T9649 1.6952E-06 7.62 0 0.199988629 0.1016
SO SRCPARAM T9734 1.6952E-06 5.4864 0 0.598333059 0.1524
SO SRCPARAM T9736 1.6952E-06 5.4864 0 0.579061727 0.1524
SO SRCPARAM T9738 1.6952E-06 4.8768 0 0.015507266 0.508
SO SRCPARAM T9749 1.6952E-06 7.9248 0 0.185997655 0.1524
SO SRCPARAM T9798 1.6952E-06 6.4008 0 0.099579281 0.2032
SO SRCPARAM T9812 1.6952E-06 15.24 0 0.099579281 0.2032
SO SRCPARAM T9814 1.6952E-06 13.716 0 0.099579281 0.2032
SO SRCPARAM T9815 1.6952E-06 15.24 0 0.099579281 0.2032
SO SRCPARAM T9822 1.6952E-06 15.24 0 0.099579281 0.2032
SO SRCPARAM T9824 1.6952E-06 13.716 0 0.099579281 0.2032
SO SRCPARAM T9825 1.6952E-06 15.24 0 0.099579281 0.2032
**
** Srcid Srctyp Xs Ys Zs
SO LOCATION L001TT1 POINT 439641.71 4247081.619 184.31
SO LOCATION L001TT2 POINT 439662.8977 4247076.134 184.44
SO LOCATION L001TT3 POINT 439673.8979 4247075.164 184.49
SO LOCATION L001TT4 POINT 439683.3865 4247070.654 184.58
SO LOCATION L001TT5 POINT 439694.4766 4247070.017 184.47
SO LOCATION L001TT6 POINT 439706.0709 4247066.712 184.51
**
** SrcID Ptemis Stkhgt Stktmp Stkvel Stkdia
** (g/s) (m) (K) (m/s) (m)
SO SRCPARAM L001TT1 1.6952E-06 3.6576 0 0.024902038 0.508
SO SRCPARAM L001TT2 1.6952E-06 3.6576 0 0.024902038 0.508
SO SRCPARAM L001TT3 1.6952E-06 3.6576 0 0.024902038 0.508
SO SRCPARAM L001TT4 1.6952E-06 3.6576 0 0.024902038 0.508
SO SRCPARAM L001TT5 1.6952E-06 3.6576 0 0.024902038 0.508
SO SRCPARAM L001TT6 0 3.6576 0 0.024902038 0.508
**
** Oxide Adducts Fugitive Sources
** EO Header and Reactor 2
** Srcid Srctyp Xs Ys Zs
SO LOCATION OAH2 VOLUME 439731 4247128 182.63
** Srcid Vlemis Relhgt Syint Szint
SO SRCPARAM OAH2 0.00040193 4.8768 2.872093023 1.984744186
** Reactors 4 and 5
** Srcid Srctyp Xs Ys Zs
SO LOCATION OAR451 VOLUME 439674 4247142 183
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SO LOCATION OAR452 VOLUME 439672 4247137 183
** Srcid Vlemis Relhgt Syint Szint
SO SRCPARAM OAR451 0.00031945 8.5344 2.125581395 0.283534884
SO SRCPARAM OAR452 0.00031945 8.5344 2.125581395 0.283534884
** Reactor 6
** Srcid Srctyp Xs Ys Zs
SO LOCATION OAR6 VOLUME 439676 4247091 184.41
** Srcid Vlemis Relhgt Syint Szint
SO SRCPARAM OAR6 0.00012924 7.62 0.972093023 2.126511628
** Reactor 7
** Srcid Srctyp Xs Ys Zs
SO LOCATION OAR7 VOLUME 439713 4247110 184.27
** Srcid Vlemis Relhgt Syint Szint
SO SRCPARAM OAR7 0.000056660 7.7724 0.739534884 2.197395349
**

** Western Tip of Island - Modeled as a LINE source
** Srcid Srctyp Xs1 Ys1 Xs2 Ys2 Zs
SO LOCATION OAWTIL LINE 439166 4247407 439631 4247325 181.0666667
** Srcid Lnemis Relhgt width (Szint)
SO SRCPARAM OAWTIL 1.44372E-07 0 3.47 3.6576
**

** Lower Island Bridge
** Srcid Srctyp Xs Ys Zs
SO LOCATION OALIB1 VOLUME 439762 4247237 176.33
SO LOCATION OALIB2 VOLUME 439767 4247235 176.33
SO LOCATION OALIB3 VOLUME 439773 4247233 176.33
** Srcid Vlemis Relhgt Syint Szint
SO SRCPARAM OALIB1 0.000047240 2.4384 2.63255814 0.850604651
SO SRCPARAM OALIB2 0.000047240 2.4384 2.63255814 0.850604651
SO SRCPARAM OALIB3 0.000047240 2.4384 2.63255814 0.850604651
**
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** "TRITON - DOW/UCC - South Charleston WV - ALL Sources (Point and
Fugitive)"
**
** "TRITON - South Charleston WV - Point Sources"
**
** Srcid Srctyp Xs Ys Zs
SO LOCATION E10813 POINT 440122.4085 4247192.775 181.87
SO LOCATION L001 POINT 440069.2126 4247170.089 181.81
SO LOCATION L002 POINT 440087.0074 4247142.992 181.97
SO LOCATION L003 POINT 440147.9003 4247214.002 181.71
SO LOCATION L004 POINT 440086.0755 4247182.17 181.83
SO LOCATION T8313 POINT 440078.357 4247189.773 182.04
SO LOCATION T8314 POINT 440074.9575 4247190.797 181.96
SO LOCATION T8320 POINT 440095.3977 4247190.534 181.87
SO LOCATION T8322 POINT 440084.5831 4247192.945 181.84
SO LOCATION T8323 POINT 440079.3443 4247193.317 181.94
SO LOCATION T8331 POINT 440111.855 4247195.073 181.87
SO LOCATION T8334 POINT 440076.4945 4247197.777 181.8
SO LOCATION T8343 POINT 440081.8735 4247204.506 181.89
SO LOCATION T8344 POINT 440078.4716 4247205.197 181.86
SO LOCATION T8360 POINT 440099.7218 4247208.146 181.85
SO LOCATION T8361 POINT 440094.4023 4247209.406 181.84
SO LOCATION T8363 POINT 440083.586 4247211.595 181.93
SO LOCATION T8364 POINT 440080.0976 4247212.397 181.92
SO LOCATION T8373 POINT 440083.9 4247218.583 181.8
SO LOCATION T8380 POINT 440101.8901 4247217.784 181.91
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SO LOCATION T8381 POINT 440097.2685 4247218.928 181.85
SO LOCATION T8383 POINT 440084.9779 4247222.57 181.77
SO LOCATION T8390 POINT 440103.0587 4247222.214 181.85
SO LOCATION T8391 POINT 440098.4404 4247223.802 181.79
SO LOCATION T8392 POINT 440092.5967 4247225.066 181.76
SO LOCATION T8393 POINT 440085.9685 4247226.558 181.77
SO LOCATION T8420 POINT 440130.2721 4247192.938 181.87
** SrcID Ptemis Stkhgt Stktmp Stkvel Stkdia
** (g/s) (m) (K) (m/s) (m)
SO SRCPARAM E10813 0.00062999 22.86 313.15 0.402880745 0.2115312
SO SRCPARAM L001 2.0799E-05 3.6576 333.15 0.024902038 0.508
SO SRCPARAM L002 2.0799E-05 8.2296 333.15 0.038909435 0.2032
SO SRCPARAM L003 2.0799E-05 3.6576 333.15 0.024902038 0.508
SO SRCPARAM L004 2.0799E-05 3.6576 333.15 0.024902038 0.508
SO SRCPARAM T8313 1.1606E-05 14.0208 0 0.708119332 0.0762
SO SRCPARAM T8314 1.1606E-05 14.0208 0 0.708119332 0.0762
SO SRCPARAM T8320 1.1606E-05 10.668 0 0.708119332 0.0762
SO SRCPARAM T8322 0 7.1628 0 0.708119332 0.0762
SO SRCPARAM T8323 1.1606E-05 15.5448 0 0.177029833 0.1524
SO SRCPARAM T8331 0 6.7056 0 0.708119332 0.0762
SO SRCPARAM T8334 1.1606E-05 15.5448 0 0.177029833 0.1524
SO SRCPARAM T8343 1.1606E-05 15.5448 0 0.101601144 0.201168
SO SRCPARAM T8344 1.1606E-05 15.5448 0 0.177029833 0.1524
SO SRCPARAM T8360 1.1606E-05 5.7404 0 0.406404575 0.100584
SO SRCPARAM T8361 1.1606E-05 5.7404 0 0.708119332 0.0762
SO SRCPARAM T8363 1.1606E-05 15.5448 0 0.101601144 0.201168
SO SRCPARAM T8364 0 15.5448 0 0.101601144 0.201168
SO SRCPARAM T8373 1.1606E-05 8.9916 0 0.177029833 0.1524
SO SRCPARAM T8380 1.1606E-05 10.668 0 1.53139994 0.051816
SO SRCPARAM T8381 1.1606E-05 10.668 0 1.53139994 0.051816
SO SRCPARAM T8383 1.1606E-05 8.634984 0 0.406404575 0.100584
SO SRCPARAM T8390 0 10.668 0 0.708119332 0.0762
SO SRCPARAM T8391 0 10.668 0 0.708119332 0.0762
SO SRCPARAM T8392 0 10.567416 0 0.406404575 0.100584
SO SRCPARAM T8393 1.1606E-05 9.144 0 0.708119332 0.0762
SO SRCPARAM T8420 1.1606E-05 22.86 0 2.618784513 0.039624
**
** "TRITON - South Charleston WV - Fugitive Sources"
**
** Triton Header Fugitives - THF
** Srcid Srctyp Xs Ys Zs
SO LOCATION THF VOLUME 440132 4247228 180.81
** Srcid Vlemis Relhgt Syint Szint
SO SRCPARAM THF 3.6721E-05 1.8288 1.174418605 0.567069767
**
** Triton Reactor Fugitives - TRF
** Srcid Srctyp Xs Ys Zs
SO LOCATION TRF VOLUME 440122 4247181 181.79
** Srcid Vlemis Relhgt Syint Szint
SO SRCPARAM TRF 0.000095675 9.144 1.909302326 1.417674419
**
** Triton Fugitives Near Covestro - TFNC
** Srcid Srctyp Xs Ys Zs
SO LOCATION TFNC VOLUME 439987 4247262 180.53
** Srcid Vlemis Relhgt Syint Szint
SO SRCPARAM TFNC 4.4753E-05 1.2192 0.741860465 0.283534884
**
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*****
** Covestro - South Charleston, WV
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** Ethylene Oxide - All Sources - Point and Fugitive
** Covestro Fugitive Sources
** Covestro E003 Fugitives - CE003F
** Srcid Srctyp Xs Ys Zs
SO LOCATION CE003F1 VOLUME 439941 4247253 181.825
SO LOCATION CE003F2 VOLUME 439935 4247225 181.825
** Srcid Vlemis Relhgt Syint Szint
SO SRCPARAM CE003F1 2.5830E-04 10.0584 13.02325581 2.410046512
SO SRCPARAM CE003F2 2.5830E-04 10.0584 13.02325581 2.410046512

** Covestro PhaseIV Fugitives - CPIVF
** Srcid Srctyp Xs Ys Zs
SO LOCATION CPIVF1 VOLUME 440271 4247100 181.78
SO LOCATION CPIVF2 VOLUME 440293 4247096 181.78
** Srcid Vlemis Relhgt Syint Szint
SO SRCPARAM CPIVF1 4.4099E-04 6.096 11.1627907 2.126511628
SO SRCPARAM CPIVF2 4.4099E-04 6.096 11.1627907 2.126511628

** Covestro Point Sources
** SrcID Srctyp Xs Ys Zs
SO LOCATION 1RX POINTHOR 439938.84 4247272.37 180.07
SO LOCATION 2RX POINTHOR 439938.84 4247272.37 180.07
SO LOCATION 3RX POINTHOR 439938.84 4247272.37 180.07
SO LOCATION 789RX POINT 440278.83 4247093.29 181.75
** SrcID Ptemis Stkhgt Stktmp Stkvel Stkdia
** (g/s) (m) (K) (m/s) (m)
SO SRCPARAM 1RX 5.2415E-05 14.6304 373.15 10 0.0762
SO SRCPARAM 2RX 0 14.6304 373.15 10 0.0762
SO SRCPARAM 3RX 0 14.6304 313.15 10 0.0762
SO SRCPARAM 789RX 5.7707E-04 12.8016 313.15 10 0.254

** BPIP Parameters
**

SO BUILDHGT	1RX	12.10	12.10	12.10	12.10	12.10	12.10
SO BUILDHGT	1RX	12.10	12.10	12.10	12.10	12.10	12.10
SO BUILDHGT	1RX	12.10	12.10	12.10	12.10	12.10	12.10
SO BUILDHGT	1RX	12.10	12.10	12.10	12.10	12.10	12.10
SO BUILDHGT	1RX	12.10	12.10	12.10	12.10	12.10	12.10
SO BUILDHGT	1RX	12.10	12.10	12.10	12.10	12.10	12.10
SO BUILDWID	1RX	30.25	31.80	40.39	47.76	53.68	57.96
SO BUILDWID	1RX	60.49	61.17	60.00	57.00	57.50	60.20
SO BUILDWID	1RX	61.07	60.09	57.27	52.72	46.57	39.00
SO BUILDWID	1RX	30.25	31.80	40.39	47.76	53.68	57.96
SO BUILDWID	1RX	60.49	61.17	60.00	57.00	57.50	60.20
SO BUILDWID	1RX	61.07	60.09	57.27	52.72	46.57	39.00
SO BUILDLEN	1RX	57.00	57.50	60.20	61.07	60.09	57.27
SO BUILDLEN	1RX	52.72	46.57	39.00	30.25	31.80	40.39
SO BUILDLEN	1RX	47.76	53.68	57.96	60.49	61.17	60.00
SO BUILDLEN	1RX	57.00	57.50	60.20	61.07	60.09	57.27
SO BUILDLEN	1RX	52.72	46.57	39.00	30.25	31.80	40.39
SO BUILDLEN	1RX	47.76	53.68	57.96	60.49	61.17	60.00
SO XBADJ	1RX	-60.83	-61.09	-60.36	-57.81	-53.49	-47.55
SO XBADJ	1RX	-40.17	-31.56	-22.00	-11.77	-3.67	-2.83
SO XBADJ	1RX	-1.90	-0.92	0.10	1.11	2.09	3.00
SO XBADJ	1RX	3.82	3.58	0.16	-3.27	-6.59	-9.72
SO XBADJ	1RX	-12.55	-15.01	-17.00	-18.48	-28.13	-37.56
SO XBADJ	1RX	-45.86	-52.76	-58.06	-61.59	-63.26	-63.00
SO YBADJ	1RX	-3.36	-12.23	-17.37	-21.98	-25.92	-29.08
SO YBADJ	1RX	-31.35	-32.67	-33.00	-32.33	-32.33	-30.26



SO YBADJ	1RX	-27.27	-23.45	-18.92	-13.81	-8.28	-2.50
SO YBADJ	1RX	3.36	12.23	17.37	21.98	25.92	29.08
SO YBADJ	1RX	31.35	32.67	33.00	32.33	32.33	30.26
SO YBADJ	1RX	27.27	23.45	18.92	13.81	8.28	2.50
SO BUILDHGT	2RX	12.10	12.10	12.10	12.10	12.10	12.10
SO BUILDHGT	2RX	12.10	12.10	12.10	12.10	12.10	12.10
SO BUILDHGT	2RX	12.10	12.10	12.10	12.10	12.10	12.10
SO BUILDHGT	2RX	12.10	12.10	12.10	12.10	12.10	12.10
SO BUILDHGT	2RX	12.10	12.10	12.10	12.10	12.10	12.10
SO BUILDHGT	2RX	12.10	12.10	12.10	12.10	12.10	12.10
SO BUILDWID	2RX	30.25	31.80	40.39	47.76	53.68	57.96
SO BUILDWID	2RX	60.49	61.17	60.00	57.00	57.50	60.20
SO BUILDWID	2RX	61.07	60.09	57.27	52.72	46.57	39.00
SO BUILDWID	2RX	30.25	31.80	40.39	47.76	53.68	57.96
SO BUILDWID	2RX	60.49	61.17	60.00	57.00	57.50	60.20
SO BUILDWID	2RX	61.07	60.09	57.27	52.72	46.57	39.00
SO BUILDLEN	2RX	57.00	57.50	60.20	61.07	60.09	57.27
SO BUILDLEN	2RX	52.72	46.57	39.00	30.25	31.80	40.39
SO BUILDLEN	2RX	47.76	53.68	57.96	60.49	61.17	60.00
SO BUILDLEN	2RX	57.00	57.50	60.20	61.07	60.09	57.27
SO BUILDLEN	2RX	52.72	46.57	39.00	30.25	31.80	40.39
SO BUILDLEN	2RX	47.76	53.68	57.96	60.49	61.17	60.00
SO XBADJ	2RX	-60.83	-61.09	-60.36	-57.81	-53.49	-47.55
SO XBADJ	2RX	-40.17	-31.56	-22.00	-11.77	-3.67	-2.83
SO XBADJ	2RX	-1.90	-0.92	0.10	1.11	2.09	3.00
SO XBADJ	2RX	3.82	3.58	0.16	-3.27	-6.59	-9.72
SO XBADJ	2RX	-12.55	-15.01	-17.00	-18.48	-28.13	-37.56
SO XBADJ	2RX	-45.86	-52.76	-58.06	-61.59	-63.26	-63.00
SO YBADJ	2RX	-3.36	-12.23	-17.37	-21.98	-25.92	-29.08
SO YBADJ	2RX	-31.35	-32.67	-33.00	-32.33	-32.33	-30.26
SO YBADJ	2RX	-27.27	-23.45	-18.92	-13.81	-8.28	-2.50
SO YBADJ	2RX	3.36	12.23	17.37	21.98	25.92	29.08
SO YBADJ	2RX	31.35	32.67	33.00	32.33	32.33	30.26
SO YBADJ	2RX	27.27	23.45	18.92	13.81	8.28	2.50
SO BUILDHGT	3RX	12.10	12.10	12.10	12.10	12.10	12.10
SO BUILDHGT	3RX	12.10	12.10	12.10	12.10	12.10	12.10
SO BUILDHGT	3RX	12.10	12.10	12.10	12.10	12.10	12.10
SO BUILDHGT	3RX	12.10	12.10	12.10	12.10	12.10	12.10
SO BUILDHGT	3RX	12.10	12.10	12.10	12.10	12.10	12.10
SO BUILDHGT	3RX	12.10	12.10	12.10	12.10	12.10	12.10
SO BUILDWID	3RX	30.25	31.80	40.39	47.76	53.68	57.96
SO BUILDWID	3RX	60.49	61.17	60.00	57.00	57.50	60.20
SO BUILDWID	3RX	61.07	60.09	57.27	52.72	46.57	39.00
SO BUILDWID	3RX	30.25	31.80	40.39	47.76	53.68	57.96
SO BUILDWID	3RX	60.49	61.17	60.00	57.00	57.50	60.20
SO BUILDWID	3RX	61.07	60.09	57.27	52.72	46.57	39.00
SO BUILDLEN	3RX	57.00	57.50	60.20	61.07	60.09	57.27
SO BUILDLEN	3RX	52.72	46.57	39.00	30.25	31.80	40.39
SO BUILDLEN	3RX	47.76	53.68	57.96	60.49	61.17	60.00
SO BUILDLEN	3RX	57.00	57.50	60.20	61.07	60.09	57.27
SO BUILDLEN	3RX	52.72	46.57	39.00	30.25	31.80	40.39
SO BUILDLEN	3RX	47.76	53.68	57.96	60.49	61.17	60.00
SO XBADJ	3RX	-60.83	-61.09	-60.36	-57.81	-53.49	-47.55
SO XBADJ	3RX	-40.17	-31.56	-22.00	-11.77	-3.67	-2.83
SO XBADJ	3RX	-1.90	-0.92	0.10	1.11	2.09	3.00
SO XBADJ	3RX	3.82	3.58	0.16	-3.27	-6.59	-9.72



SO	XBADJ	3RX	-12.55	-15.01	-17.00	-18.48	-28.13	-37.56
SO	XBADJ	3RX	-45.86	-52.76	-58.06	-61.59	-63.26	-63.00
SO	YBADJ	3RX	-3.36	-12.23	-17.37	-21.98	-25.92	-29.08
SO	YBADJ	3RX	-31.35	-32.67	-33.00	-32.33	-32.33	-30.26
SO	YBADJ	3RX	-27.27	-23.45	-18.92	-13.81	-8.28	-2.50
SO	YBADJ	3RX	3.36	12.23	17.37	21.98	25.92	29.08
SO	YBADJ	3RX	31.35	32.67	33.00	32.33	32.33	30.26
SO	YBADJ	3RX	27.27	23.45	18.92	13.81	8.28	2.50

SO	BUILDHGT	789RX	12.10	12.10	12.10	12.10	12.10	12.10
SO	BUILDHGT	789RX	12.10	12.10	12.10	12.10	12.10	12.10
SO	BUILDHGT	789RX	12.10	12.10	12.10	12.10	12.10	12.10
SO	BUILDHGT	789RX	12.10	12.10	12.10	12.10	12.10	12.10
SO	BUILDHGT	789RX	12.10	12.10	12.10	12.10	12.10	12.10
SO	BUILDWID	789RX	56.31	56.90	58.61	60.06	59.69	57.51
SO	BUILDWID	789RX	53.58	48.02	41.00	32.74	31.71	39.76
SO	BUILDWID	789RX	46.60	52.02	55.86	58.01	58.39	57.00
SO	BUILDWID	789RX	56.31	56.90	58.61	60.06	59.69	57.51
SO	BUILDWID	789RX	53.58	48.02	41.00	32.74	31.71	39.76
SO	BUILDWID	789RX	46.60	52.02	55.86	58.01	58.39	57.00
SO	BUILDLN	789RX	32.74	31.71	39.76	46.60	52.02	55.86
SO	BUILDLN	789RX	58.01	58.39	57.00	56.31	56.90	58.61
SO	BUILDLN	789RX	60.06	59.69	57.51	53.58	48.02	41.00
SO	BUILDLN	789RX	32.74	31.71	39.76	46.60	52.02	55.86
SO	BUILDLN	789RX	58.01	58.39	57.00	56.31	56.90	58.61
SO	BUILDLN	789RX	60.06	59.69	57.51	53.58	48.02	41.00
SO	XBADJ	789RX	-13.68	-9.49	-13.37	-16.84	-19.79	-22.15
SO	XBADJ	789RX	-23.83	-24.79	-25.00	-24.45	-23.15	-23.99
SO	XBADJ	789RX	-25.63	-26.49	-26.55	-25.80	-24.27	-22.00
SO	XBADJ	789RX	-19.06	-22.22	-26.39	-29.76	-32.23	-33.71
SO	XBADJ	789RX	-34.17	-33.60	-32.00	-31.86	-33.75	-34.61
SO	XBADJ	789RX	-34.43	-33.20	-30.95	-27.77	-23.75	-19.00
SO	YBADJ	789RX	-3.71	-5.30	-5.31	-4.40	-3.35	-2.20
SO	YBADJ	789RX	-0.98	0.26	1.50	2.69	6.37	6.51
SO	YBADJ	789RX	6.46	6.22	5.78	5.17	4.40	3.50
SO	YBADJ	789RX	3.71	5.30	5.31	4.40	3.35	2.20
SO	YBADJ	789RX	0.98	-0.26	-1.50	-2.69	-6.37	-6.51
SO	YBADJ	789RX	-6.46	-6.22	-5.78	-5.17	-4.40	-3.50

**

** "Chemical Mixing Process Area - South Charleston WV - Ethylene Oxide"
** Srcid Srctyp Xs Ys Zs

SO LOCATION CHMIX AREA 440262 4246838 176.33
** Srcid Aremis Relhgt Xinit (Yinit) (Angle) (Szinit)
SO SRCPARAM CHMIX 6.8851E-07 3.047999902 9.99987808

**

** SOURCE GROUPS

** Chemical Mixing Source Group

SO SRCGROUP CHMIX CHMIX

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*****
*****
** Covestro Source Groups
**
** Point Source Groups
**
SO SRCGROUP 1RX 1RX
SO SRCGROUP 2RX 2RX
SO SRCGROUP 3RX 3RX
SO SRCGROUP 789RX 789RX
**
** Covestro All Point Source Group
SO SRCGROUP CPOINT 1RX 2RX 3RX 789RX
**
** Covestro Fugitive Source Groups
SO SRCGROUP CE003F CE003F1 CE003F2
SO SRCGROUP CPIVF CPIVF1 CPIVF2
** Covestro All Fugitive Source Group
SO SRCGROUP CFUGIT CE003F1 CE003F2 CPIVF1 CPIVF2
**
** Covestro All Source Group (Point and Fugitive)
SO SRCGROUP COVESTRO 1RX 2RX 3RX 789RX CE003F1 CE003F2 CPIVF1 CPIVF2
**
*****
*****
** Triton Source Groups
**
** Triton Point Source Groups
SO SRCGROUP TE10813 E10813
SO SRCGROUP T_L_All L001 L002 L003 L004
SO SRCGROUP T_T_All T8313 T8314 T8320 T8322 T8323
SO SRCGROUP T_T_All T8331 T8334 T8343 T8344 T8360
SO SRCGROUP T_T_All T8361 T8363 T8364 T8373 T8380
SO SRCGROUP T_T_All T8381 T8383 T8390 T8391 T8392 T8393 T8420
** Triton All Point Sources Group
SO SRCGROUP T_POINT E10813
SO SRCGROUP T_POINT L001 L002 L003 L004
SO SRCGROUP T_POINT T8313 T8314 T8320 T8322 T8323
SO SRCGROUP T_POINT T8331 T8334 T8343 T8344 T8360
SO SRCGROUP T_POINT T8361 T8363 T8364 T8373 T8380
SO SRCGROUP T_POINT T8381 T8383 T8390 T8391 T8392 T8393 T8420
** Triton Fugitive Source Groups
SO SRCGROUP THF THF
SO SRCGROUP TRF TRF
SO SRCGROUP TFNC TFNC
** Triton All Fugitive Sources Group
SO SRCGROUP T_FUGIT THF TRF TFNC
** TRITON ALL SOURCES POINT AND FUGITIVE
SO SRCGROUP TRITON E10813
SO SRCGROUP TRITON L001 L002 L003 L004
SO SRCGROUP TRITON T8313 T8314 T8320 T8322 T8323
SO SRCGROUP TRITON T8331 T8334 T8343 T8344 T8360
SO SRCGROUP TRITON T8361 T8363 T8364 T8373 T8380
SO SRCGROUP TRITON T8381 T8383 T8390 T8391 T8392 T8393 T8420
SO SRCGROUP TRITON THF TRF TFNC
**
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** Oxide Adducts Source Groups
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** Oxide Adducts Point Source Groups
SO SRCGROUP OA_E70XP E704 E705 E706 E707 E708
SO SRCGROUP OA_TALLP T9120 T9121 T9128 T9129 T9151 T9180
SO SRCGROUP OA_TALLP T9181 T9182 T9186 T9187 T9223 T9228
SO SRCGROUP OA_TALLP T9502 T9504 T9505 T9507 T9509 T9510
SO SRCGROUP OA_TALLP T9511 T9512 T9553 T9554 T9555 T9556
SO SRCGROUP OA_TALLP T9562 T9563 T9565 T9568 T9569 T9612
SO SRCGROUP OA_TALLP T9614 T9615 T9616 T9617 T9619 T9622
SO SRCGROUP OA_TALLP T9624 T9625 T9627 T9629 T9632 T9634
SO SRCGROUP OA_TALLP T9635 T9637 T9640 T9643 T9645 T9646
SO SRCGROUP OA_TALLP T9649 T9734 T9736 T9738 T9749 T9798
SO SRCGROUP OA_TALLP T9812 T9814 T9815 T9822 T9824 T9825
SO SRCGROUP OA_LALLP L001TT1 L001TT2 L001TT3 L001TT4 L001TT5 L001TT6
** Oxide Adducts All Point Source Group
SO SRCGROUP OA_POINT E704 E705 E706 E707 E708
SO SRCGROUP OA_POINT T9120 T9121 T9128 T9129 T9151 T9180
SO SRCGROUP OA_POINT T9181 T9182 T9186 T9187 T9223 T9228
SO SRCGROUP OA_POINT T9502 T9504 T9505 T9507 T9509 T9510
SO SRCGROUP OA_POINT T9511 T9512 T9553 T9554 T9555 T9556
SO SRCGROUP OA_POINT T9562 T9563 T9565 T9568 T9569 T9612
SO SRCGROUP OA_POINT T9614 T9615 T9616 T9617 T9619 T9622
SO SRCGROUP OA_POINT T9624 T9625 T9627 T9629 T9632 T9634
SO SRCGROUP OA_POINT T9635 T9637 T9640 T9643 T9645 T9646
SO SRCGROUP OA_POINT T9649 T9734 T9736 T9738 T9749 T9798
SO SRCGROUP OA_POINT T9812 T9814 T9815 T9822 T9824 T9825
SO SRCGROUP OA_POINT L001TT1 L001TT2 L001TT3 L001TT4 L001TT5 L001TT6
** Oxide Adducts Fugitive Source Groups
SO SRCGROUP OAH2F OAH2
SO SRCGROUP OAR45F OAR451 OAR452
SO SRCGROUP OAR6F OAR6
SO SRCGROUP OAR7F OAR7
SO SRCGROUP OAWTILF OAWTIL
SO SRCGROUP OALIBF OALIB1 OALIB2 OALIB3
** Oxide Adducts All Fugitive Source Group
SO SRCGROUP OA_FUGIT OAH2
SO SRCGROUP OA_FUGIT OAR451 OAR452
SO SRCGROUP OA_FUGIT OAR6
SO SRCGROUP OA_FUGIT OAR7
SO SRCGROUP OA_FUGIT OAWTIL
SO SRCGROUP OA_FUGIT OALIB1 OALIB2 OALIB3
** Oxide Adducts - All Sources - Point and Fugitive
SO SRCGROUP OA_ALL E704 E705 E706 E707 E708
SO SRCGROUP OA_ALL T9120 T9121 T9128 T9129 T9151 T9180
SO SRCGROUP OA_ALL T9181 T9182 T9186 T9187 T9223 T9228
SO SRCGROUP OA_ALL T9502 T9504 T9505 T9507 T9509 T9510
SO SRCGROUP OA_ALL T9511 T9512 T9553 T9554 T9555 T9556
SO SRCGROUP OA_ALL T9562 T9563 T9565 T9568 T9569 T9612
SO SRCGROUP OA_ALL T9614 T9615 T9616 T9617 T9619 T9622
SO SRCGROUP OA_ALL T9624 T9625 T9627 T9629 T9632 T9634
SO SRCGROUP OA_ALL T9635 T9637 T9640 T9643 T9645 T9646
SO SRCGROUP OA_ALL T9649 T9734 T9736 T9738 T9749 T9798
SO SRCGROUP OA_ALL T9812 T9814 T9815 T9822 T9824 T9825
SO SRCGROUP OA_ALL L001TT1 L001TT2 L001TT3 L001TT4 L001TT5 L001TT6
SO SRCGROUP OA_ALL OAH2
SO SRCGROUP OA_ALL OAR451 OAR452
SO SRCGROUP OA_ALL OAR6
SO SRCGROUP OA_ALL OAR7
SO SRCGROUP OA_ALL OAWTIL
SO SRCGROUP OA_ALL OALIB1 OALIB2 OALIB3
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*****
** UCC - South Charleston Source Group - Oxide Adducts, Triton, Chemical
Mixing
** Oxide Adducts
SO SRCGROUP UCC_SC E704 E705 E706 E707 E708
SO SRCGROUP UCC_SC T9120 T9121 T9128 T9129 T9151 T9180
SO SRCGROUP UCC_SC T9181 T9182 T9186 T9187 T9223 T9228
SO SRCGROUP UCC_SC T9502 T9504 T9505 T9507 T9509 T9510
SO SRCGROUP UCC_SC T9511 T9512 T9553 T9554 T9555 T9556
SO SRCGROUP UCC_SC T9562 T9563 T9565 T9568 T9569 T9612
SO SRCGROUP UCC_SC T9614 T9615 T9616 T9617 T9619 T9622
SO SRCGROUP UCC_SC T9624 T9625 T9627 T9629 T9632 T9634
SO SRCGROUP UCC_SC T9635 T9637 T9640 T9643 T9645 T9646
SO SRCGROUP UCC_SC T9649 T9734 T9736 T9738 T9749 T9798
SO SRCGROUP UCC_SC T9812 T9814 T9815 T9822 T9824 T9825
SO SRCGROUP UCC_SC L001TT1 L001TT2 L001TT3 L001TT4 L001TT5 L001TT6
SO SRCGROUP UCC_SC OADR2
SO SRCGROUP UCC_SC OAR451 OAR452
SO SRCGROUP UCC_SC OAR6
SO SRCGROUP UCC_SC OAR7
SO SRCGROUP UCC_SC OAWTIL
SO SRCGROUP UCC_SC OALIB1 OALIB2 OALIB3
** Triton
SO SRCGROUP UCC_SC E10813
SO SRCGROUP UCC_SC L001 L002 L003 L004
SO SRCGROUP UCC_SC T8313 T8314 T8320 T8322 T8323
SO SRCGROUP UCC_SC T8331 T8334 T8343 T8344 T8360
SO SRCGROUP UCC_SC T8361 T8363 T8364 T8373 T8380
SO SRCGROUP UCC_SC T8381 T8383 T8390 T8391 T8392 T8393 T8420
SO SRCGROUP UCC_SC THF TRF TFNC
** Chemical Mixing
SO SRCGROUP UCC_SC CHMIX
```




April Monitoring Event AERMOD Source Input: Institute

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** WVDAQ - Monitoring Event 4 **
** 2022 Event 4 Emissions **
**
** Ethylene Oxide - Institute, WV - EO Distribution and POLYOX
** Specialty Products US LLC (POLYOX plant facility 54-039-00005 )
** Polyox - Institute Point Sources
** LOCATION SOURCE ID UTM_E UTM_W ELEV (m)
LOCATION 221A POINT 431513.4933 4248834.413 181.53
LOCATION 230M POINT 432213.6261 4248385.614 181.64
LOCATION 230L POINT 432200.8493 4248393.156 181.74
LOCATION 230K POINT 432191.221 4248390.796 181.63
LOCATION 2300 POINT 432192.7629 4248376.801 181.62
LOCATION 230HH POINT 432172.9967 4248384.18 181.56
** SrcID Ptemis Stkhgt Stktmp Stkvel Stkdia
** (g/s) (m) (K) (m/s) (m)
SRCPARAM 221A 0 35.6616 866.4833333 4.81584 0.254
SRCPARAM 230M 0 4.572 318.15 16.608552 0.040894
SRCPARAM 230L 0 4.572 318.15 22.823424 0.040894
SRCPARAM 230K 0 4.572 318.15 51.499008 0.040894
SRCPARAM 2300 0 27.432 318.15 2.618232 0.200406
SRCPARAM 230HH 0 0.9144 0 4.572 0.01905
**
** BPIP Parameters
**
SO BUILDHGT 230HH 7.00 0.00 0.00 0.00 25.90 25.90
SO BUILDHGT 230HH 25.90 25.90 25.90 25.90 0.00 0.00
SO BUILDHGT 230HH 0.00 0.00 0.00 0.00 0.00 0.00
SO BUILDHGT 230HH 7.00 7.00 7.00 7.00 25.90 25.90
SO BUILDHGT 230HH 25.90 25.90 25.90 25.90 0.00 0.00
SO BUILDHGT 230HH 0.00 0.00 0.00 0.00 0.00 0.00
SO BUILDWID 230HH 48.55 0.00 0.00 0.00 22.09 24.75
SO BUILDWID 230HH 26.65 27.75 28.00 27.40 0.00 0.00
SO BUILDWID 230HH 0.00 0.00 0.00 0.00 0.00 0.00
SO BUILDWID 230HH 27.75 23.66 20.22 22.87 22.09 24.75
SO BUILDWID 230HH 26.65 27.75 28.00 27.40 0.00 0.00
SO BUILDWID 230HH 0.00 0.00 0.00 0.00 0.00 0.00
SO BUILDLEN 230HH 39.34 0.00 0.00 0.00 30.33 30.88
SO BUILDLEN 230HH 30.50 29.19 27.00 23.99 0.00 0.00
SO BUILDLEN 230HH 0.00 0.00 0.00 0.00 0.00 0.00
SO BUILDLEN 230HH 30.99 30.16 30.38 32.18 30.33 30.88
SO BUILDLEN 230HH 30.50 29.19 27.00 23.99 0.00 0.00
SO BUILDLEN 230HH 0.00 0.00 0.00 0.00 0.00 0.00
SO XBADJ 230HH 12.04 0.00 0.00 0.00 27.75 28.88
SO XBADJ 230HH 29.13 28.50 27.00 24.68 0.00 0.00
SO XBADJ 230HH 0.00 0.00 0.00 0.00 0.00 0.00
SO XBADJ 230HH -51.38 -52.20 -51.44 -51.61 -58.08 -59.77
SO XBADJ 230HH -59.64 -57.69 -54.00 -48.66 0.00 0.00
SO XBADJ 230HH 0.00 0.00 0.00 0.00 0.00 0.00
SO YBADJ 230HH -24.39 0.00 0.00 0.00 -11.48 -3.80
SO YBADJ 230HH 4.00 11.68 19.00 25.74 0.00 0.00
SO YBADJ 230HH 0.00 0.00 0.00 0.00 0.00 0.00
SO YBADJ 230HH 13.99 8.06 1.20 -6.27 11.48 3.80
SO YBADJ 230HH -4.00 -11.68 -19.00 -25.74 0.00 0.00
SO YBADJ 230HH 0.00 0.00 0.00 0.00 0.00 0.00

SO BUILDHGT 2300 25.90 25.90 25.90 25.90 25.90 25.90
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SO BUILDHGT 2300	25.90	25.90	0.00	0.00	0.00	0.00
SO BUILDHGT 2300	0.00	0.00	7.00	7.00	25.90	25.90
SO BUILDHGT 2300	25.90	25.90	25.90	25.90	25.90	25.90
SO BUILDHGT 2300	25.90	25.90	0.00	0.00	0.00	0.00
SO BUILDHGT 2300	0.00	0.00	7.00	7.00	25.90	25.90
SO BUILDWID 2300	23.99	20.24	15.88	18.76	22.09	24.28
SO BUILDWID 2300	24.28	24.28	0.00	0.00	0.00	0.00
SO BUILDWID 2300	0.00	0.00	34.85	34.60	24.28	24.28
SO BUILDWID 2300	23.99	20.24	15.88	18.76	22.09	24.28
SO BUILDWID 2300	24.28	24.28	0.00	0.00	0.00	0.00
SO BUILDWID 2300	0.00	0.00	45.30	48.35	24.28	24.28
SO BUILDLEN 2300	27.40	25.97	26.49	28.85	30.33	30.88
SO BUILDLEN 2300	30.50	29.19	0.00	0.00	0.00	0.00
SO BUILDLEN 2300	0.00	0.00	29.21	31.10	27.75	28.00
SO BUILDLEN 2300	27.40	25.97	26.49	28.85	30.33	30.88
SO BUILDLEN 2300	30.50	29.19	0.00	0.00	0.00	0.00
SO BUILDLEN 2300	0.00	0.00	49.61	49.21	27.75	28.00
SO XBADJ 2300	16.45	19.40	19.95	19.05	17.58	15.56
SO XBADJ 2300	13.08	10.19	0.00	0.00	0.00	0.00
SO XBADJ 2300	0.00	0.00	-50.36	-54.25	-36.90	-41.00
SO XBADJ 2300	-43.85	-45.37	-46.44	-47.90	-47.90	-46.44
SO XBADJ 2300	-43.58	-39.39	0.00	0.00	0.00	0.00
SO XBADJ 2300	0.00	0.00	0.76	5.03	9.16	13.00
SO YBADJ 2300	-15.59	-10.20	-4.50	1.65	7.51	13.13
SO YBADJ 2300	18.36	23.03	0.00	0.00	0.00	0.00
SO YBADJ 2300	0.00	0.00	18.57	12.53	24.79	20.50
SO YBADJ 2300	15.59	10.20	4.50	-1.65	-7.51	-13.13
SO YBADJ 2300	-18.36	-23.03	0.00	0.00	0.00	0.00
SO YBADJ 2300	0.00	0.00	-23.79	-19.40	-24.79	-20.50

SO BUILDHGT 230K	25.90	25.90	25.90	25.90	25.90	25.90
SO BUILDHGT 230K	25.90	25.90	25.90	25.90	25.90	25.90
SO BUILDHGT 230K	25.90	25.90	25.90	25.90	25.90	25.90
SO BUILDHGT 230K	25.90	25.90	25.90	25.90	25.90	25.90
SO BUILDHGT 230K	25.90	25.90	25.90	25.90	25.90	25.90
SO BUILDWID 230K	23.99	20.24	15.88	18.76	22.09	24.75
SO BUILDWID 230K	26.65	27.75	28.00	27.40	25.97	26.49
SO BUILDWID 230K	28.85	30.33	30.88	30.50	29.19	27.00
SO BUILDWID 230K	23.99	20.24	15.88	18.76	22.09	24.75
SO BUILDWID 230K	26.65	27.75	28.00	27.40	25.97	26.49
SO BUILDWID 230K	28.85	30.33	30.88	30.50	29.19	27.00
SO BUILDLEN 230K	27.40	25.97	26.49	28.85	30.33	30.88
SO BUILDLEN 230K	30.50	29.19	27.00	23.99	20.24	15.88
SO BUILDLEN 230K	18.76	22.09	24.75	26.65	27.75	28.00
SO BUILDLEN 230K	27.40	25.97	26.49	28.85	30.33	30.88
SO BUILDLEN 230K	30.50	29.19	27.00	23.99	20.24	15.88
SO BUILDLEN 230K	18.76	22.09	24.75	26.65	27.75	28.00
SO XBADJ 230K	2.84	6.58	8.33	8.97	9.34	9.43
SO XBADJ 230K	9.23	8.75	8.00	7.01	5.81	4.43
SO XBADJ 230K	-1.27	-7.18	-12.88	-18.19	-22.94	-27.00
SO XBADJ 230K	-30.24	-32.55	-34.82	-37.82	-39.67	-40.31
SO XBADJ 230K	-39.73	-37.94	-35.00	-31.00	-26.05	-20.31
SO XBADJ 230K	-17.50	-14.91	-11.87	-8.46	-4.81	-1.00
SO YBADJ 230K	-19.00	-15.93	-12.37	-8.11	-3.86	0.51
SO YBADJ 230K	4.86	9.07	13.00	16.54	19.57	21.58
SO YBADJ 230K	23.40	24.50	24.87	24.48	23.34	21.50
SO YBADJ 230K	19.00	15.93	12.37	8.11	3.86	-0.51
SO YBADJ 230K	-4.86	-9.07	-13.00	-16.54	-19.57	-21.58



SO	YBADJ	230K	-23.40	-24.50	-24.87	-24.48	-23.34	-21.50
SO	BUILDHGT	230L	25.90	25.90	25.90	25.90	25.90	25.90
SO	BUILDHGT	230L	25.90	25.90	25.90	25.90	25.90	25.90
SO	BUILDHGT	230L	25.90	25.90	25.90	25.90	25.90	25.90
SO	BUILDHGT	230L	25.90	25.90	25.90	25.90	25.90	25.90
SO	BUILDHGT	230L	25.90	25.90	25.90	25.90	25.90	25.90
SO	BUILDWID	230L	23.99	20.24	15.88	18.76	22.09	24.75
SO	BUILDWID	230L	26.65	27.75	28.00	27.40	25.97	26.49
SO	BUILDWID	230L	28.85	30.33	30.88	30.50	29.19	27.00
SO	BUILDWID	230L	23.99	20.24	15.88	18.76	22.09	24.75
SO	BUILDWID	230L	26.65	27.75	28.00	27.40	25.97	26.49
SO	BUILDWID	230L	28.85	30.33	30.88	30.50	29.19	27.00
SO	BUILDLN	230L	27.40	25.97	26.49	28.85	30.33	30.88
SO	BUILDLN	230L	30.50	29.19	27.00	23.99	20.24	15.88
SO	BUILDLN	230L	18.76	22.09	24.75	26.65	27.75	28.00
SO	BUILDLN	230L	27.40	25.97	26.49	28.85	30.33	30.88
SO	BUILDLN	230L	30.50	29.19	27.00	23.99	20.24	15.88
SO	BUILDLN	230L	18.76	22.09	24.75	26.65	27.75	28.00
SO	XBADJ	230L	-1.68	0.69	1.23	0.89	0.52	0.13
SO	XBADJ	230L	-0.26	-0.64	-1.00	-1.33	-1.62	-1.87
SO	XBADJ	230L	-6.23	-10.67	-14.78	-18.45	-21.55	-24.00
SO	XBADJ	230L	-25.72	-26.66	-27.72	-29.74	-30.84	-31.02
SO	XBADJ	230L	-30.25	-28.56	-26.00	-22.65	-18.62	-14.02
SO	XBADJ	230L	-12.53	-11.42	-9.96	-8.21	-6.20	-4.00
SO	YBADJ	230L	-10.66	-8.50	-6.08	-3.15	-0.37	2.41
SO	YBADJ	230L	5.12	7.68	10.00	12.02	13.67	14.48
SO	YBADJ	230L	15.31	15.68	15.58	15.00	13.96	12.50
SO	YBADJ	230L	10.66	8.50	6.08	3.15	0.37	-2.41
SO	YBADJ	230L	-5.12	-7.68	-10.00	-12.02	-13.67	-14.48
SO	YBADJ	230L	-15.31	-15.68	-15.58	-15.00	-13.96	-12.50
SO	BUILDHGT	230M	25.90	25.90	25.90	25.90	25.90	25.90
SO	BUILDHGT	230M	25.90	25.90	25.90	25.90	25.90	25.90
SO	BUILDHGT	230M	25.90	25.90	25.90	25.90	25.90	25.90
SO	BUILDHGT	230M	25.90	25.90	25.90	25.90	25.90	25.90
SO	BUILDHGT	230M	25.90	25.90	25.90	25.90	25.90	25.90
SO	BUILDWID	230M	23.99	20.24	15.88	18.76	22.09	24.75
SO	BUILDWID	230M	26.65	27.75	28.00	27.40	25.97	26.49
SO	BUILDWID	230M	28.85	30.33	30.88	30.50	29.19	27.00
SO	BUILDWID	230M	23.99	20.24	15.88	18.76	22.09	24.75
SO	BUILDWID	230M	26.65	27.75	28.00	27.40	25.97	26.49
SO	BUILDWID	230M	28.85	30.33	30.88	30.50	29.19	27.00
SO	BUILDLN	230M	27.40	25.97	26.49	28.85	30.33	30.88
SO	BUILDLN	230M	30.50	29.19	27.00	23.99	20.24	15.88
SO	BUILDLN	230M	18.76	22.09	24.75	26.65	27.75	28.00
SO	BUILDLN	230M	27.40	25.97	26.49	28.85	30.33	30.88
SO	BUILDLN	230M	30.50	29.19	27.00	23.99	20.24	15.88
SO	BUILDLN	230M	18.76	22.09	24.75	26.65	27.75	28.00
SO	XBADJ	230M	3.94	3.76	1.66	-1.34	-4.30	-7.12
SO	XBADJ	230M	-9.74	-12.05	-14.00	-15.52	-16.58	-17.12
SO	XBADJ	230M	-21.34	-25.16	-28.21	-30.41	-31.69	-32.00
SO	XBADJ	230M	-31.34	-29.73	-28.15	-27.51	-26.03	-23.76
SO	XBADJ	230M	-20.77	-17.14	-13.00	-8.46	-3.67	1.24
SO	XBADJ	230M	2.57	3.06	3.46	3.76	3.94	4.00
SO	YBADJ	230M	3.53	6.46	9.18	11.95	14.11	15.84



SO	YBADJ	230M	17.09	17.81	18.00	17.64	16.74	14.91
SO	YBADJ	230M	13.08	10.87	8.32	5.52	2.55	-0.50
SO	YBADJ	230M	-3.53	-6.46	-9.18	-11.95	-14.11	-15.84
SO	YBADJ	230M	-17.09	-17.81	-18.00	-17.64	-16.74	-14.91
SO	YBADJ	230M	-13.08	-10.87	-8.32	-5.52	-2.55	0.50

SO	BUILDHGT	221A	0.00	0.00	0.00	0.00	0.00	0.00
SO	BUILDHGT	221A	0.00	0.00	0.00	0.00	0.00	0.00
SO	BUILDHGT	221A	0.00	0.00	0.00	0.00	0.00	0.00
SO	BUILDHGT	221A	0.00	0.00	0.00	0.00	0.00	0.00
SO	BUILDHGT	221A	0.00	0.00	0.00	0.00	0.00	0.00
SO	BUILDHGT	221A	0.00	0.00	0.00	0.00	0.00	0.00
SO	BUILDWID	221A	0.00	0.00	0.00	0.00	0.00	0.00
SO	BUILDWID	221A	0.00	0.00	0.00	0.00	0.00	0.00
SO	BUILDWID	221A	0.00	0.00	0.00	0.00	0.00	0.00
SO	BUILDWID	221A	0.00	0.00	0.00	0.00	0.00	0.00
SO	BUILDWID	221A	0.00	0.00	0.00	0.00	0.00	0.00
SO	BUILDWID	221A	0.00	0.00	0.00	0.00	0.00	0.00
SO	BUILDLEN	221A	0.00	0.00	0.00	0.00	0.00	0.00
SO	BUILDLEN	221A	0.00	0.00	0.00	0.00	0.00	0.00
SO	BUILDLEN	221A	0.00	0.00	0.00	0.00	0.00	0.00
SO	BUILDLEN	221A	0.00	0.00	0.00	0.00	0.00	0.00
SO	BUILDLEN	221A	0.00	0.00	0.00	0.00	0.00	0.00
SO	BUILDLEN	221A	0.00	0.00	0.00	0.00	0.00	0.00
SO	XBADJ	221A	0.00	0.00	0.00	0.00	0.00	0.00
SO	XBADJ	221A	0.00	0.00	0.00	0.00	0.00	0.00
SO	XBADJ	221A	0.00	0.00	0.00	0.00	0.00	0.00
SO	XBADJ	221A	0.00	0.00	0.00	0.00	0.00	0.00
SO	XBADJ	221A	0.00	0.00	0.00	0.00	0.00	0.00
SO	XBADJ	221A	0.00	0.00	0.00	0.00	0.00	0.00
SO	YBADJ	221A	0.00	0.00	0.00	0.00	0.00	0.00
SO	YBADJ	221A	0.00	0.00	0.00	0.00	0.00	0.00
SO	YBADJ	221A	0.00	0.00	0.00	0.00	0.00	0.00
SO	YBADJ	221A	0.00	0.00	0.00	0.00	0.00	0.00
SO	YBADJ	221A	0.00	0.00	0.00	0.00	0.00	0.00

**

** Polyox - Institute Fugitive Sources

**

** Srcid Srctyp Xs Ys Zs
LOCATION POLYVOL1 VOLUME 432175 4248394 181.6

** Srcid Vlemis Relhgt Syint Szint
SRCPARAM POLYVOL1 1.9908E-04 4.572 3.023255814 4.253023256

**

** Srcid Srctyp Xs Ys Zs
LOCATION BL8389A1 VOLUME 432195 4248382 181.66
LOCATION BL8389A2 VOLUME 432191 4248374 181.66
LOCATION BL8389B1 VOLUME 432195 4248382 181.66
LOCATION BL8389B2 VOLUME 432191 4248374 181.66

** Srcid Vlemis Relhgt Syint Szint
SRCPARAM BL8389A1 3.4476E-05 13.716 3.990697674 2.126511628
SRCPARAM BL8389A2 3.4476E-05 13.716 3.990697674 2.126511628
SRCPARAM BL8389B1 1.0996E-04 22.86 3.990697674 2.126511628
SRCPARAM BL8389B2 1.0996E-04 22.86 3.990697674 2.126511628

**

** EO Distribution - Institute, WV

** Point Sources

** Srcid Srctyp Xs Ys Zs
LOCATION EODISTFL POINT 431659.87 4248946.05 181.6



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** SrcID Ptemis Stkhgt Stktmp Stkvel Stkdia
SRCPARAM EODISTFL 4.8949E-03 27.432 866.4833333 8.6868 0.100584
** Fugitive Sources
** Railcar Unloading
** Srcid Srctyp Xs Ys Zs
LOCATION Rail1 VOLUME 431609 4248856 182.332
LOCATION Rail2 VOLUME 431616 4248851 182.332
LOCATION Rail3 VOLUME 431624 4248847 182.332
LOCATION Rail4 VOLUME 431632 4248843 182.332
LOCATION Rail5 VOLUME 431640 4248837 182.332
** Srcid Vlemis Relhgt Syint Szint
SRCPARAM Rail1 0.00039555 5.62002432 4.76744186 0.34568573
SRCPARAM Rail2 0.00039555 5.62002432 4.76744186 0.34568573
SRCPARAM Rail3 0.00039555 5.62002432 4.76744186 0.34568573
SRCPARAM Rail4 0.00039555 5.62002432 4.76744186 0.34568573
SRCPARAM Rail5 0.00039555 5.62002432 4.76744186 0.34568573
** Pumps/Diked Area
** Srcid Srctyp Xs Ys Zs
LOCATION PUMP1 VOLUME 431612 4248893 182.55
LOCATION PUMP2 VOLUME 431620 4248889 182.55
LOCATION PUMP3 VOLUME 431630 4248884 182.55
** Srcid Vlemis Relhgt Syint Szint
SRCPARAM PUMP1 0.0010703 2.4384 5.576744186 0.567069767
SRCPARAM PUMP2 0.0010703 2.4384 5.576744186 0.567069767
SRCPARAM PUMP3 0.0010703 2.4384 5.576744186 0.567069767
** Tanks Area
** Srcid Srctyp Xs Ys Zs
LOCATION TANKS1 VOLUME 431587 4248907 182.76
LOCATION TANKS2 VOLUME 431599 4248903 182.76
** Srcid Vlemis Relhgt Syint Szint
SRCPARAM TANKS1 0.00090102 5.4864 5.786046512 0.283534884
SRCPARAM TANKS2 0.00090102 5.4864 5.786046512 0.283534884
** Flare Area
** Srcid Srctyp Xs Ys Zs
LOCATION FLAREFU1 VOLUME 431658 4248944 182.87
LOCATION FLAREFU2 VOLUME 431653 4248936 182.87
** Srcid Vlemis Relhgt Syint Szint
SRCPARAM FLAREFU1 2.3689E-04 2.4384 3.688372093 0.283534884
SRCPARAM FLAREFU2 2.3689E-04 2.4384 3.688372093 0.283534884
** Area Near Rt. 25
** Srcid Srctyp Xs Ys Zs
LOCATION R251 VOLUME 431873 4249163 183.655
LOCATION R252 VOLUME 431877 4249161 183.655
** Srcid Vlemis Relhgt Syint Szint
SRCPARAM R251 5.7806E-05 1.0668 1.8 0.354418605
SRCPARAM R252 5.7806E-05 1.0668 1.8 0.354418605
**
** EO DISTRIBUTION Source Groups
** Point Source Groups
SRCGROUP EODISTFL EODISTFL
SRCGROUP EODPOINT EODISTFL
** Fugitive Source Groups
SRCGROUP EODRAILF Rail1 Rail2 Rail3 Rail4 Rail5
SRCGROUP EODPUMPF PUMP1 PUMP2 PUMP3
SRCGROUP EODTANKF TANKS1 TANKS2
SRCGROUP EODFLARF FLAREFU1 FLAREFU2
SRCGROUP EODR25F R251 R252
SRCGROUP EODFUGI Rail1 Rail2 Rail3 Rail4 Rail5 PUMP1 PUMP2 PUMP3
SRCGROUP EODFUGI TANKS1 TANKS2 FLAREFU1 FLAREFU2 R251 R252
** EO DISTRIBUTION ALL (Point and Fugitive)
```




```
SRCGROUP EODIST EODISTFL
SRCGROUP EODIST Rail1 Rail2 Rail3 Rail4 Rail5 PUMP1 PUMP2 PUMP3
SRCGROUP EODIST TANKS1 TANKS2 FLAREFU1 FLAREFU2 R251 R252
**
** Polyox Source Groups
** Point Source Groups
**
SRCGROUP 221A 221A
SRCGROUP 230M 230M
SRCGROUP 230L 230L
SRCGROUP 230K 230K
SRCGROUP 230O 230O
SRCGROUP 230HH 230HH
SRCGROUP PPOINT 221A 230M 230L 230K 230O 230HH
**
** Fugitive Source Groups
**
SRCGROUP POLYVOL1 POLYVOL1
SRCGROUP PBL8389 BL8389A1 BL8389A2 BL8389B1 BL8389B2
SRCGROUP PFUGIT POLYVOL1 BL8389A1 BL8389A2 BL8389B1 BL8389B2
**
** POLYOX All Source Groups (Point and Fugitive)
**
SRCGROUP POLYOX 221A 230M 230L 230K 230O 230HH
SRCGROUP POLYOX POLYVOL1 BL8389A1 BL8389A2 BL8389B1 BL8389B2
```



April Monitoring Event AERMOD Source Input: South Charleston

**Ethylene oxide - South Charleston, WV Monitoring Event #4 (Apr 26-27, 2022)
**Oxide Adducts; Triton; Covestro; Chemical Mixing

**
** Ethylene oxide - ALL South Charleston, WV Process Areas
**

** Union Carbide Corporation - Oxide Adducts - Plant ID 03900003
** Oxide Adducts Point Sources
**

** Srcid Srctyp Xs Ys Zs
SO LOCATION E704 POINT 439727.0898 4247132.136 181.84
SO LOCATION E705 POINT 439676.2355 4247142.393 182.66
SO LOCATION E706 POINT 439676.2355 4247142.393 182.66
SO LOCATION E707 POINT 439711.3862 4247111.614 184.05
SO LOCATION E708 POINT 439675.5865 4247090.687 184.41
**

** SrcID Ptemis Stkhgt Stktmp Stkvel stkdia
** (g/s) (m) (K) (m/s) (m)
SO SRCPARAM E704 0 9.144 353.15 65.61836 0.024384
SO SRCPARAM E705 0 9.144 353.15 65.61836 0.024384
SO SRCPARAM E706 0 9.144 353.15 65.61836 0.024384
SO SRCPARAM E707 0 10.9728 353.15 49.1744 0.024384
SO SRCPARAM E708 0 12.192 353.15 18.53184 0.039624
**

** Srcid Srctyp Xs Ys Zs
SO LOCATION T9120 POINT 439685.8352 4247106.035 184.07
SO LOCATION T9121 POINT 439685.8352 4247106.035 184.07
SO LOCATION T9128 POINT 439723.4114 4247107.529 183.89
SO LOCATION T9129 POINT 439723.4114 4247107.529 183.89
SO LOCATION T9151 POINT 439694.594 4247109.076 184.05
SO LOCATION T9180 POINT 439706.8896 4247106.099 184.25
SO LOCATION T9181 POINT 439706.8896 4247106.099 184.25
SO LOCATION T9182 POINT 439706.8896 4247106.099 184.25
SO LOCATION T9186 POINT 439666.5424 4247084.54 184.3
SO LOCATION T9187 POINT 439666.5424 4247084.54 184.3
SO LOCATION T9223 POINT 439665.6512 4247093.868 184.07
SO LOCATION T9228 POINT 439694.3836 4247104.306 184.13
SO LOCATION T9502 POINT 439720.7695 4247128.078 183.17
SO LOCATION T9504 POINT 439679.6315 4247140.925 183.01
SO LOCATION T9505 POINT 439678.6308 4247135.606 183.28
SO LOCATION T9507 POINT 438886.7718 4136148.361 183.29
SO LOCATION T9509 POINT 439638.2105 4247104.283 183.92
SO LOCATION T9510 POINT 439647.5443 4247102.437 183.85
SO LOCATION T9511 POINT 439649.2697 4247111.191 183.78
SO LOCATION T9512 POINT 439655.838 4247113.361 183.74
SO LOCATION T9553 POINT 439767.2389 4247080.458 183.94
SO LOCATION T9554 POINT 439773.7782 4247078.745 183.94
SO LOCATION T9555 POINT 439773.7782 4247078.745 183.94
SO LOCATION T9556 POINT 439758.9003 4247075.194 183.97
SO LOCATION T9562 POINT 439747.3508 4247084.491 184.17
SO LOCATION T9563 POINT 439744.9134 4247073.967 184.24
SO LOCATION T9565 POINT 439773.6592 4247051.115 184.38
SO LOCATION T9568 POINT 439775.3753 4247058.648 184.32
SO LOCATION T9569 POINT 439794.994 4247053.619 184.22



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SO LOCATION T9612 POINT 439717.9824 4247129.208 183.23
SO LOCATION T9614 POINT 439684.0875 4247141.002 182.55
SO LOCATION T9615 POINT 439681.9445 4247134.804 183.22
SO LOCATION T9616 POINT 439666.5424 4247084.54 184.3
SO LOCATION T9617 POINT 439717.7941 4247104.02 184.24
SO LOCATION T9619 POINT 439654.9674 4247137.114 183.34
SO LOCATION T9622 POINT 439717.9824 4247129.208 183.23
SO LOCATION T9624 POINT 439684.0875 4247141.002 182.55
SO LOCATION T9625 POINT 439681.9445 4247134.804 183.22
SO LOCATION T9627 POINT 439717.7941 4247104.02 184.24
SO LOCATION T9629 POINT 439654.9674 4247137.114 183.34
SO LOCATION T9632 POINT 439805.7771 4246976.749 184.65
SO LOCATION T9634 POINT 439779.5329 4247018.78 184.65
SO LOCATION T9635 POINT 439775.4267 4247007.048 184.61
SO LOCATION T9637 POINT 439801.5726 4247045.469 184.47
SO LOCATION T9640 POINT 439800.0875 4247045.48 184.46
SO LOCATION T9643 POINT 439793.4584 4247046.861 184.31
SO LOCATION T9645 POINT 439793.4584 4247046.861 184.31
SO LOCATION T9646 POINT 439788.6277 4247055.109 184.21
SO LOCATION T9649 POINT 439780.6377 4247049.731 184.31
SO LOCATION T9734 POINT 439644.6571 4247125.207 183.55
SO LOCATION T9736 POINT 439648.584 4247124.623 183.58
SO LOCATION T9738 POINT 439652.1564 4247123.376 183.57
SO LOCATION T9749 POINT 439718.7008 4247108.452 184.03
SO LOCATION T9798 POINT 439726.2124 4247119.936 183.28
SO LOCATION T9812 POINT 439704.6444 4247132.97 182.55
SO LOCATION T9814 POINT 439697.2524 4247137.464 181.85
SO LOCATION T9815 POINT 439696.1627 4247131.924 183.06
SO LOCATION T9822 POINT 439704.6444 4247132.97 182.55
SO LOCATION T9824 POINT 439697.2524 4247137.464 181.85
SO LOCATION T9825 POINT 439696.1627 4247131.924 183.06
**
** SrcID Ptemis Stkhgt Stktmp Stkvel Stkdia
** (g/s) (m) (K) (m/s) (m)
SO SRCPARAM T9120 1.6952E-06 6.7056 0 0.099579281 0.2032
SO SRCPARAM T9121 1.6952E-06 6.7056 0 0.099579281 0.2032
SO SRCPARAM T9128 0 7.3152 0 0.101393412 0.1524
SO SRCPARAM T9129 0 7.3152 0 0.099579281 0.2032
SO SRCPARAM T9151 0 5.4864 0 0.077032657 0.1016
SO SRCPARAM T9180 0 7.62 0 0.099579281 0.2032
SO SRCPARAM T9181 0 7.62 0 0.099579281 0.2032
SO SRCPARAM T9182 0 7.62 0 0.099579281 0.2032
SO SRCPARAM T9186 1.6952E-06 18.8976 0 0.099579281 0.2032
SO SRCPARAM T9187 1.6952E-06 18.8976 0 0.099579281 0.2032
SO SRCPARAM T9223 0 6.4008 0 0.099579281 0.2032
SO SRCPARAM T9228 0 5.7912 0 0.099579281 0.2032
SO SRCPARAM T9502 1.6952E-06 13.716 0 0.099579281 0.2032
SO SRCPARAM T9504 0 13.716 0 0.099579281 0.2032
SO SRCPARAM T9505 0 13.716 0 0.099579281 0.2032
SO SRCPARAM T9507 0 5.4864 0 0.099579281 0.2032
SO SRCPARAM T9509 1.6952E-06 9.144 0 0.14591763 0.2032
SO SRCPARAM T9510 1.6952E-06 9.144 0 0.0068962 0.508
SO SRCPARAM T9511 1.6952E-06 9.144 0 0.326648095 0.1016
SO SRCPARAM T9512 1.6952E-06 9.144 0 0.40442145 0.1016
SO SRCPARAM T9553 1.6952E-06 18.8976 0 0.063048267 0.254
SO SRCPARAM T9554 1.6952E-06 18.8976 0 0.101846061 0.2032
SO SRCPARAM T9555 1.6952E-06 18.8976 0 0.154846751 0.2032
SO SRCPARAM T9556 1.6952E-06 18.8976 0 0.106290253 0.2032
SO SRCPARAM T9562 1.6952E-06 9.7536 0 0.022369099 0.508
SO SRCPARAM T9563 1.6952E-06 9.7536 0 0.019672956 0.508
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SO SRCPARAM T9565 1.6952E-06 6.7056 0 0.079639916 0.254
SO SRCPARAM T9568 1.6952E-06 6.7056 0 0.031572279 0.4064
SO SRCPARAM T9569 1.6952E-06 7.62 0 0.044441918 0.2032
SO SRCPARAM T9612 0 13.4112 0 0.099579281 0.2032
SO SRCPARAM T9614 1.6952E-06 13.716 0 0.037034931 0.2032
SO SRCPARAM T9615 1.6952E-06 13.716 0 0.099579281 0.2032
SO SRCPARAM T9616 1.6952E-06 18.8976 0 0.144362162 0.2032
SO SRCPARAM T9617 1.6952E-06 18.8976 0 0.110610995 0.1524
SO SRCPARAM T9619 1.6952E-06 19.5072 0 0.132733194 0.2032
SO SRCPARAM T9622 1.6952E-06 13.4112 0 0.099579281 0.2032
SO SRCPARAM T9624 1.6952E-06 13.716 0 0.108142 0.2032
SO SRCPARAM T9625 1.6952E-06 13.716 0 0.099579281 0.2032
SO SRCPARAM T9627 1.6952E-06 18.8976 0 0.099579281 0.2032
SO SRCPARAM T9629 1.6952E-06 19.5072 0 0.148139725 0.2032
SO SRCPARAM T9632 0 6.096 0 0.2696143 0.1016
SO SRCPARAM T9634 0 6.4008 0 0.222209588 0.1016
SO SRCPARAM T9635 0 6.4008 0 0.303686437 0.1016
SO SRCPARAM T9637 0 7.62 0 0.123120572 0.1524
SO SRCPARAM T9640 1.6952E-06 7.62 0 0.207395616 0.1524
SO SRCPARAM T9643 1.6952E-06 7.62 0 0.089871433 0.1524
SO SRCPARAM T9645 1.6952E-06 7.62 0 0.121803774 0.1524
SO SRCPARAM T9646 1.6952E-06 7.62 0 0.241467752 0.1016
SO SRCPARAM T9649 1.6952E-06 7.62 0 0.199988629 0.1016
SO SRCPARAM T9734 1.6952E-06 5.4864 0 0.598333059 0.1524
SO SRCPARAM T9736 1.6952E-06 5.4864 0 0.579061727 0.1524
SO SRCPARAM T9738 1.6952E-06 4.8768 0 0.015507266 0.508
SO SRCPARAM T9749 1.6952E-06 7.9248 0 0.185997655 0.1524
SO SRCPARAM T9798 1.6952E-06 6.4008 0 0.099579281 0.2032
SO SRCPARAM T9812 0 15.24 0 0.099579281 0.2032
SO SRCPARAM T9814 1.6952E-06 13.716 0 0.099579281 0.2032
SO SRCPARAM T9815 0 15.24 0 0.099579281 0.2032
SO SRCPARAM T9822 1.6952E-06 15.24 0 0.099579281 0.2032
SO SRCPARAM T9824 1.6952E-06 13.716 0 0.099579281 0.2032
SO SRCPARAM T9825 1.6952E-06 15.24 0 0.099579281 0.2032
**
** Srcid Srctyp Xs Ys Zs
SO LOCATION L001TT1 POINT 439641.71 4247081.619 184.31
SO LOCATION L001TT2 POINT 439662.8977 4247076.134 184.44
SO LOCATION L001TT3 POINT 439673.8979 4247075.164 184.49
SO LOCATION L001TT4 POINT 439683.3865 4247070.654 184.58
SO LOCATION L001TT5 POINT 439694.4766 4247070.017 184.47
SO LOCATION L001TT6 POINT 439706.0709 4247066.712 184.51
**
** SrcID Ptemis Stkhgt Stktmp Stkvel Stkdia
** (g/s) (m) (K) (m/s) (m)
SO SRCPARAM L001TT1 1.6952E-06 3.6576 0 0.024902038 0.508
SO SRCPARAM L001TT2 1.6952E-06 3.6576 0 0.024902038 0.508
SO SRCPARAM L001TT3 1.6952E-06 3.6576 0 0.024902038 0.508
SO SRCPARAM L001TT4 1.6952E-06 3.6576 0 0.024902038 0.508
SO SRCPARAM L001TT5 1.6952E-06 3.6576 0 0.024902038 0.508
SO SRCPARAM L001TT6 1.6952E-06 3.6576 0 0.024902038 0.508
**
** Oxide Adducts Fugitive Sources
** EO Header and Reactor 2
** Srcid Srctyp Xs Ys Zs
SO LOCATION OAH2 VOLUME 439731 4247128 182.63
** Srcid Vlemis Relhgt Syint Szint
SO SRCPARAM OAH2 4.0192E-04 4.8768 2.872093023 1.984744186
** Reactors 4 and 5
** Srcid Srctyp Xs Ys Zs
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SO LOCATION OAR451 VOLUME 439674 4247142 183
SO LOCATION OAR452 VOLUME 439672 4247137 183
** Srcid Vlemis Relhgt Syint Szint
SO SRCPARAM OAR451 0.00031945 8.5344 2.125581395 0.283534884
SO SRCPARAM OAR452 0.00031945 8.5344 2.125581395 0.283534884
** Reactor 6
** Srcid Srctyp Xs Ys Zs
SO LOCATION OAR6 VOLUME 439676 4247091 184.41
** Srcid Vlemis Relhgt Syint Szint
SO SRCPARAM OAR6 0.00012924 7.62 0.972093023 2.126511628
** Reactor 7
** Srcid Srctyp Xs Ys Zs
SO LOCATION OAR7 VOLUME 439713 4247110 184.27
** Srcid Vlemis Relhgt Syint Szint
SO SRCPARAM OAR7 0.000056660 7.7724 0.739534884 2.197395349
**

** Western Tip of Island - Modeled as a LINE source
** Srcid Srctyp Xs1 Ys1 Xs2 Ys2 Zs
SO LOCATION OAWTIL LINE 439166 4247407 439631 4247325 181.0666667
** Srcid Lnemis Relhgt Width (Szint)
SO SRCPARAM OAWTIL 1.44372E-07 0 3.47 3.6576
**

** Lower Island Bridge
** Srcid Srctyp Xs Ys Zs
SO LOCATION OALIB1 VOLUME 439762 4247237 176.33
SO LOCATION OALIB2 VOLUME 439767 4247235 176.33
SO LOCATION OALIB3 VOLUME 439773 4247233 176.33
** Srcid Vlemis Relhgt Syint Szint
SO SRCPARAM OALIB1 0.000047240 2.4384 2.63255814 0.850604651
SO SRCPARAM OALIB2 0.000047240 2.4384 2.63255814 0.850604651
SO SRCPARAM OALIB3 0.000047240 2.4384 2.63255814 0.850604651
**

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** "TRITON - DOW/UCC - South Charleston WV - ALL Sources (Point and
Fugitive)"
**
** "TRITON - South Charleston WV - Point Sources"
**
** Srcid Srctyp Xs Ys Zs
SO LOCATION E10813 POINT 440122.4085 4247192.775 181.87
SO LOCATION L001 POINT 440069.2126 4247170.089 181.81
SO LOCATION L002 POINT 440087.0074 4247142.992 181.97
SO LOCATION L003 POINT 440147.9003 4247214.002 181.71
SO LOCATION L004 POINT 440086.0755 4247182.17 181.83
SO LOCATION T8313 POINT 440078.357 4247189.773 182.04
SO LOCATION T8314 POINT 440074.9575 4247190.797 181.96
SO LOCATION T8320 POINT 440095.3977 4247190.534 181.87
SO LOCATION T8322 POINT 440084.5831 4247192.945 181.84
SO LOCATION T8323 POINT 440079.3443 4247193.317 181.94
SO LOCATION T8331 POINT 440111.855 4247195.073 181.87
SO LOCATION T8334 POINT 440076.4945 4247197.777 181.8
SO LOCATION T8343 POINT 440081.8735 4247204.506 181.89
SO LOCATION T8344 POINT 440078.4716 4247205.197 181.86
SO LOCATION T8360 POINT 440099.7218 4247208.146 181.85
SO LOCATION T8361 POINT 440094.4023 4247209.406 181.84
SO LOCATION T8363 POINT 440083.586 4247211.595 181.93
SO LOCATION T8364 POINT 440080.0976 4247212.397 181.92
SO LOCATION T8373 POINT 440083.9 4247218.583 181.8
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SO LOCATION T8380 POINT 440101.8901 4247217.784 181.91
SO LOCATION T8381 POINT 440097.2685 4247218.928 181.85
SO LOCATION T8383 POINT 440084.9779 4247222.57 181.77
SO LOCATION T8390 POINT 440103.0587 4247222.214 181.85
SO LOCATION T8391 POINT 440098.4404 4247223.802 181.79
SO LOCATION T8392 POINT 440092.5967 4247225.066 181.76
SO LOCATION T8393 POINT 440085.9685 4247226.558 181.77
SO LOCATION T8420 POINT 440130.2721 4247192.938 181.87
** SrcID Ptemis Stkhgt Stktmp Stkvel Stkdia
** (g/s) (m) (K) (m/s) (m)
SO SRCPARAM E10813 1.7325E-03 22.86 313.15 0.402880745 0.2115312
SO SRCPARAM L001 2.0799E-05 3.6576 333.15 0.024902038 0.508
SO SRCPARAM L002 2.0799E-05 8.2296 333.15 0.038909435 0.2032
SO SRCPARAM L003 2.0799E-05 3.6576 333.15 0.024902038 0.508
SO SRCPARAM L004 2.0799E-05 3.6576 333.15 0.024902038 0.508
SO SRCPARAM T8313 1.1606E-05 14.0208 0 0.708119332 0.0762
SO SRCPARAM T8314 1.1606E-05 14.0208 0 0.708119332 0.0762
SO SRCPARAM T8320 0 10.668 0 0.708119332 0.0762
SO SRCPARAM T8322 0 7.1628 0 0.708119332 0.0762
SO SRCPARAM T8323 1.1606E-05 15.5448 0 0.177029833 0.1524
SO SRCPARAM T8331 1.1606E-05 6.7056 0 0.708119332 0.0762
SO SRCPARAM T8334 1.1606E-05 15.5448 0 0.177029833 0.1524
SO SRCPARAM T8343 1.1606E-05 15.5448 0 0.101601144 0.201168
SO SRCPARAM T8344 1.1606E-05 15.5448 0 0.177029833 0.1524
SO SRCPARAM T8360 1.1606E-05 5.7404 0 0.406404575 0.100584
SO SRCPARAM T8361 1.1606E-05 5.7404 0 0.708119332 0.0762
SO SRCPARAM T8363 1.1606E-05 15.5448 0 0.101601144 0.201168
SO SRCPARAM T8364 1.1606E-05 15.5448 0 0.101601144 0.201168
SO SRCPARAM T8373 1.1606E-05 8.9916 0 0.177029833 0.1524
SO SRCPARAM T8380 0 10.668 0 1.53139994 0.051816
SO SRCPARAM T8381 1.1606E-05 10.668 0 1.53139994 0.051816
SO SRCPARAM T8383 1.1606E-05 8.634984 0 0.406404575 0.100584
SO SRCPARAM T8390 1.1606E-05 10.668 0 0.708119332 0.0762
SO SRCPARAM T8391 1.1606E-05 10.668 0 0.708119332 0.0762
SO SRCPARAM T8392 1.1606E-05 10.567416 0 0.406404575 0.100584
SO SRCPARAM T8393 1.1606E-05 9.144 0 0.708119332 0.0762
SO SRCPARAM T8420 1.1606E-05 22.86 0 2.618784513 0.039624
**
** "TRITON - South Charleston WV - Fugitive Sources"
**
** Triton Header Fugitives - THF
** Srcid Srctyp Xs Ys Zs
SO LOCATION THF VOLUME 440132 4247228 180.81
** Srcid Vlemis Relhgt Synt Szint
SO SRCPARAM THF 3.6721E-05 1.8288 1.174418605 0.567069767
**
** Triton Reactor Fugitives - TRF
** Srcid Srctyp Xs Ys Zs
SO LOCATION TRF VOLUME 440122 4247181 181.79
** Srcid Vlemis Relhgt Synt Szint
SO SRCPARAM TRF 0.000095675 9.144 1.909302326 1.417674419
**
** Triton Fugitives Near Covestro - TFNC
** Srcid Srctyp Xs Ys Zs
SO LOCATION TFNC VOLUME 439987 4247262 180.53
** Srcid Vlemis Relhgt Synt Szint
SO SRCPARAM TFNC 4.4753E-05 1.2192 0.741860465 0.283534884
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** Covestro - South Charleston, WV
** Ethylene Oxide - All Sources - Point and Fugitive
** Covestro Fugitive Sources
** Covestro E003 Fugitives - CE003F
** Srcid Srctyp Xs Ys Zs
SO LOCATION CE003F1 VOLUME 439941 4247253 181.825
SO LOCATION CE003F2 VOLUME 439935 4247225 181.825
** Srcid Vlemis Relhgt Syint Szint
SO SRCPARAM CE003F1 2.5830E-04 10.0584 13.02325581 2.410046512
SO SRCPARAM CE003F2 2.5830E-04 10.0584 13.02325581 2.410046512

** Covestro PhaseIV Fugitives - CPIVF
** Srcid Srctyp Xs Ys Zs
SO LOCATION CPIVF1 VOLUME 440271 4247100 181.78
SO LOCATION CPIVF2 VOLUME 440293 4247096 181.78
** Srcid Vlemis Relhgt Syint Szint
SO SRCPARAM CPIVF1 4.4099E-04 6.096 11.1627907 2.126511628
SO SRCPARAM CPIVF2 4.4099E-04 6.096 11.1627907 2.126511628

** Covestro Point Sources
** SrcID Srctyp Xs Ys Zs
SO LOCATION 1RX POINTHOR 439938.84 4247272.37 180.07
SO LOCATION 2RX POINTHOR 439938.84 4247272.37 180.07
SO LOCATION 3RX POINTHOR 439938.84 4247272.37 180.07
SO LOCATION 789RX POINT 440278.83 4247093.29 181.75
** SrcID Ptemis Stkhgt Stktmp Stkvel Stkdia
** (g/s) (m) (K) (m/s) (m)
SO SRCPARAM 1RX 0 14.6304 373.15 10 0.0762
SO SRCPARAM 2RX 0 14.6304 373.15 10 0.0762
SO SRCPARAM 3RX 0 14.6304 313.15 10 0.0762
SO SRCPARAM 789RX 5.7959E-04 12.8016 313.15 10 0.254
**
** BPIP Parameters
**

SO BUILDHGT 1RX 12.10 12.10 12.10 12.10 12.10 12.10
SO BUILDHGT 1RX 12.10 12.10 12.10 12.10 12.10 12.10
SO BUILDHGT 1RX 12.10 12.10 12.10 12.10 12.10 12.10
SO BUILDHGT 1RX 12.10 12.10 12.10 12.10 12.10 12.10
SO BUILDHGT 1RX 12.10 12.10 12.10 12.10 12.10 12.10
SO BUILDHGT 1RX 12.10 12.10 12.10 12.10 12.10 12.10
SO BUILDWID 1RX 30.25 31.80 40.39 47.76 53.68 57.96
SO BUILDWID 1RX 60.49 61.17 60.00 57.00 57.50 60.20
SO BUILDWID 1RX 61.07 60.09 57.27 52.72 46.57 39.00
SO BUILDWID 1RX 30.25 31.80 40.39 47.76 53.68 57.96
SO BUILDWID 1RX 60.49 61.17 60.00 57.00 57.50 60.20
SO BUILDWID 1RX 61.07 60.09 57.27 52.72 46.57 39.00
SO BUILDLEN 1RX 57.00 57.50 60.20 61.07 60.09 57.27
SO BUILDLEN 1RX 52.72 46.57 39.00 30.25 31.80 40.39
SO BUILDLEN 1RX 47.76 53.68 57.96 60.49 61.17 60.00
SO BUILDLEN 1RX 57.00 57.50 60.20 61.07 60.09 57.27
SO BUILDLEN 1RX 52.72 46.57 39.00 30.25 31.80 40.39
SO BUILDLEN 1RX 47.76 53.68 57.96 60.49 61.17 60.00
SO XBADJ 1RX -60.83 -61.09 -60.36 -57.81 -53.49 -47.55
SO XBADJ 1RX -40.17 -31.56 -22.00 -11.77 -3.67 -2.83
SO XBADJ 1RX -1.90 -0.92 0.10 1.11 2.09 3.00
SO XBADJ 1RX 3.82 3.58 0.16 -3.27 -6.59 -9.72
SO XBADJ 1RX -12.55 -15.01 -17.00 -18.48 -28.13 -37.56
SO XBADJ 1RX -45.86 -52.76 -58.06 -61.59 -63.26 -63.00
SO YBADJ 1RX -3.36 -12.23 -17.37 -21.98 -25.92 -29.08
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SO YBADJ	1RX	-31.35	-32.67	-33.00	-32.33	-32.33	-30.26
SO YBADJ	1RX	-27.27	-23.45	-18.92	-13.81	-8.28	-2.50
SO YBADJ	1RX	3.36	12.23	17.37	21.98	25.92	29.08
SO YBADJ	1RX	31.35	32.67	33.00	32.33	32.33	30.26
SO YBADJ	1RX	27.27	23.45	18.92	13.81	8.28	2.50

SO BUILDHGT	2RX	12.10	12.10	12.10	12.10	12.10	12.10
SO BUILDHGT	2RX	12.10	12.10	12.10	12.10	12.10	12.10
SO BUILDHGT	2RX	12.10	12.10	12.10	12.10	12.10	12.10
SO BUILDHGT	2RX	12.10	12.10	12.10	12.10	12.10	12.10
SO BUILDHGT	2RX	12.10	12.10	12.10	12.10	12.10	12.10
SO BUILDHGT	2RX	12.10	12.10	12.10	12.10	12.10	12.10
SO BUILDWID	2RX	30.25	31.80	40.39	47.76	53.68	57.96
SO BUILDWID	2RX	60.49	61.17	60.00	57.00	57.50	60.20
SO BUILDWID	2RX	61.07	60.09	57.27	52.72	46.57	39.00
SO BUILDWID	2RX	30.25	31.80	40.39	47.76	53.68	57.96
SO BUILDWID	2RX	60.49	61.17	60.00	57.00	57.50	60.20
SO BUILDWID	2RX	61.07	60.09	57.27	52.72	46.57	39.00
SO BUILDLEN	2RX	57.00	57.50	60.20	61.07	60.09	57.27
SO BUILDLEN	2RX	52.72	46.57	39.00	30.25	31.80	40.39
SO BUILDLEN	2RX	47.76	53.68	57.96	60.49	61.17	60.00
SO BUILDLEN	2RX	57.00	57.50	60.20	61.07	60.09	57.27
SO BUILDLEN	2RX	52.72	46.57	39.00	30.25	31.80	40.39
SO BUILDLEN	2RX	47.76	53.68	57.96	60.49	61.17	60.00
SO XBADJ	2RX	-60.83	-61.09	-60.36	-57.81	-53.49	-47.55
SO XBADJ	2RX	-40.17	-31.56	-22.00	-11.77	-3.67	-2.83
SO XBADJ	2RX	-1.90	-0.92	0.10	1.11	2.09	3.00
SO XBADJ	2RX	3.82	3.58	0.16	-3.27	-6.59	-9.72
SO XBADJ	2RX	-12.55	-15.01	-17.00	-18.48	-28.13	-37.56
SO XBADJ	2RX	-45.86	-52.76	-58.06	-61.59	-63.26	-63.00
SO YBADJ	2RX	-3.36	-12.23	-17.37	-21.98	-25.92	-29.08
SO YBADJ	2RX	-31.35	-32.67	-33.00	-32.33	-32.33	-30.26
SO YBADJ	2RX	-27.27	-23.45	-18.92	-13.81	-8.28	-2.50
SO YBADJ	2RX	3.36	12.23	17.37	21.98	25.92	29.08
SO YBADJ	2RX	31.35	32.67	33.00	32.33	32.33	30.26
SO YBADJ	2RX	27.27	23.45	18.92	13.81	8.28	2.50

SO BUILDHGT	3RX	12.10	12.10	12.10	12.10	12.10	12.10
SO BUILDHGT	3RX	12.10	12.10	12.10	12.10	12.10	12.10
SO BUILDHGT	3RX	12.10	12.10	12.10	12.10	12.10	12.10
SO BUILDHGT	3RX	12.10	12.10	12.10	12.10	12.10	12.10
SO BUILDHGT	3RX	12.10	12.10	12.10	12.10	12.10	12.10
SO BUILDHGT	3RX	12.10	12.10	12.10	12.10	12.10	12.10
SO BUILDWID	3RX	30.25	31.80	40.39	47.76	53.68	57.96
SO BUILDWID	3RX	60.49	61.17	60.00	57.00	57.50	60.20
SO BUILDWID	3RX	61.07	60.09	57.27	52.72	46.57	39.00
SO BUILDWID	3RX	30.25	31.80	40.39	47.76	53.68	57.96
SO BUILDWID	3RX	60.49	61.17	60.00	57.00	57.50	60.20
SO BUILDWID	3RX	61.07	60.09	57.27	52.72	46.57	39.00
SO BUILDLEN	3RX	57.00	57.50	60.20	61.07	60.09	57.27
SO BUILDLEN	3RX	52.72	46.57	39.00	30.25	31.80	40.39
SO BUILDLEN	3RX	47.76	53.68	57.96	60.49	61.17	60.00
SO BUILDLEN	3RX	57.00	57.50	60.20	61.07	60.09	57.27
SO BUILDLEN	3RX	52.72	46.57	39.00	30.25	31.80	40.39
SO BUILDLEN	3RX	47.76	53.68	57.96	60.49	61.17	60.00
SO XBADJ	3RX	-60.83	-61.09	-60.36	-57.81	-53.49	-47.55
SO XBADJ	3RX	-40.17	-31.56	-22.00	-11.77	-3.67	-2.83
SO XBADJ	3RX	-1.90	-0.92	0.10	1.11	2.09	3.00



SO	XBADJ	3RX	3.82	3.58	0.16	-3.27	-6.59	-9.72
SO	XBADJ	3RX	-12.55	-15.01	-17.00	-18.48	-28.13	-37.56
SO	XBADJ	3RX	-45.86	-52.76	-58.06	-61.59	-63.26	-63.00
SO	YBADJ	3RX	-3.36	-12.23	-17.37	-21.98	-25.92	-29.08
SO	YBADJ	3RX	-31.35	-32.67	-33.00	-32.33	-32.33	-30.26
SO	YBADJ	3RX	-27.27	-23.45	-18.92	-13.81	-8.28	-2.50
SO	YBADJ	3RX	3.36	12.23	17.37	21.98	25.92	29.08
SO	YBADJ	3RX	31.35	32.67	33.00	32.33	32.33	30.26
SO	YBADJ	3RX	27.27	23.45	18.92	13.81	8.28	2.50
SO	BUILDHGT	789RX	12.10	12.10	12.10	12.10	12.10	12.10
SO	BUILDHGT	789RX	12.10	12.10	12.10	12.10	12.10	12.10
SO	BUILDHGT	789RX	12.10	12.10	12.10	12.10	12.10	12.10
SO	BUILDHGT	789RX	12.10	12.10	12.10	12.10	12.10	12.10
SO	BUILDHGT	789RX	12.10	12.10	12.10	12.10	12.10	12.10
SO	BUILDHGT	789RX	12.10	12.10	12.10	12.10	12.10	12.10
SO	BUILDWID	789RX	56.31	56.90	58.61	60.06	59.69	57.51
SO	BUILDWID	789RX	53.58	48.02	41.00	32.74	31.71	39.76
SO	BUILDWID	789RX	46.60	52.02	55.86	58.01	58.39	57.00
SO	BUILDWID	789RX	56.31	56.90	58.61	60.06	59.69	57.51
SO	BUILDWID	789RX	53.58	48.02	41.00	32.74	31.71	39.76
SO	BUILDWID	789RX	46.60	52.02	55.86	58.01	58.39	57.00
SO	BUILDLEN	789RX	32.74	31.71	39.76	46.60	52.02	55.86
SO	BUILDLEN	789RX	58.01	58.39	57.00	56.31	56.90	58.61
SO	BUILDLEN	789RX	60.06	59.69	57.51	53.58	48.02	41.00
SO	BUILDLEN	789RX	32.74	31.71	39.76	46.60	52.02	55.86
SO	BUILDLEN	789RX	58.01	58.39	57.00	56.31	56.90	58.61
SO	BUILDLEN	789RX	60.06	59.69	57.51	53.58	48.02	41.00
SO	XBADJ	789RX	-13.68	-9.49	-13.37	-16.84	-19.79	-22.15
SO	XBADJ	789RX	-23.83	-24.79	-25.00	-24.45	-23.15	-23.99
SO	XBADJ	789RX	-25.63	-26.49	-26.55	-25.80	-24.27	-22.00
SO	XBADJ	789RX	-19.06	-22.22	-26.39	-29.76	-32.23	-33.71
SO	XBADJ	789RX	-34.17	-33.60	-32.00	-31.86	-33.75	-34.61
SO	XBADJ	789RX	-34.43	-33.20	-30.95	-27.77	-23.75	-19.00
SO	YBADJ	789RX	-3.71	-5.30	-5.31	-4.40	-3.35	-2.20
SO	YBADJ	789RX	-0.98	0.26	1.50	2.69	6.37	6.51
SO	YBADJ	789RX	6.46	6.22	5.78	5.17	4.40	3.50
SO	YBADJ	789RX	3.71	5.30	5.31	4.40	3.35	2.20
SO	YBADJ	789RX	0.98	-0.26	-1.50	-2.69	-6.37	-6.51
SO	YBADJ	789RX	-6.46	-6.22	-5.78	-5.17	-4.40	-3.50

**

**

** "Chemical Mixing Process Area - South Charleston WV - Ethylene Oxide"

** Srcid Srctyp Xs Ys Zs

SO LOCATION CHMIX AREA 440262 4246838 176.33

** Srcid Aremis Relhgt Xinit (Yinit) (Angle) (Szinit)

SO SRCPARAM CHMIX 6.8851E-07 3.047999902 9.99987808

**

**

** SOURCE GROUPS

** Chemical Mixing Source Group

SO SRCGROUP CHMIX CHMIX

**



```
*****
*****
** Covestro Source Groups
**
** Point Source Groups
**
SO SRCGROUP 1RX 1RX
SO SRCGROUP 2RX 2RX
SO SRCGROUP 3RX 3RX
SO SRCGROUP 789RX 789RX
**
** Covestro All Point Source Group
SO SRCGROUP CPOINT 1RX 2RX 3RX 789RX
**
** Covestro Fugitive Source Groups
SO SRCGROUP CE003F CE003F1 CE003F2
SO SRCGROUP CPIVF CPIVF1 CPIVF2
** Covestro All Fugitive Source Group
SO SRCGROUP CFUGIT CE003F1 CE003F2 CPIVF1 CPIVF2
**
** Covestro All Source Group (Point and Fugitive)
SO SRCGROUP COVESTRO 1RX 2RX 3RX 789RX CE003F1 CE003F2 CPIVF1 CPIVF2
**
*****
*****
** Triton Source Groups
**
** Triton Point Source Groups
SO SRCGROUP TE10813 E10813
SO SRCGROUP T_L_All L001 L002 L003 L004
SO SRCGROUP T_T_All T8313 T8314 T8320 T8322 T8323
SO SRCGROUP T_T_All T8331 T8334 T8343 T8344 T8360
SO SRCGROUP T_T_All T8361 T8363 T8364 T8373 T8380
SO SRCGROUP T_T_All T8381 T8383 T8390 T8391 T8392 T8393 T8420
** Triton All Point Sources Group
SO SRCGROUP T_POINT E10813
SO SRCGROUP T_POINT L001 L002 L003 L004
SO SRCGROUP T_POINT T8313 T8314 T8320 T8322 T8323
SO SRCGROUP T_POINT T8331 T8334 T8343 T8344 T8360
SO SRCGROUP T_POINT T8361 T8363 T8364 T8373 T8380
SO SRCGROUP T_POINT T8381 T8383 T8390 T8391 T8392 T8393 T8420
** Triton Fugitive Source Groups
SO SRCGROUP THF THF
SO SRCGROUP TRF TRF
SO SRCGROUP TFNC TFNC
** Triton All Fugitive Sources Group
SO SRCGROUP T_FUGIT THF TRF TFNC
** TRITON ALL SOURCES POINT AND FUGITIVE
SO SRCGROUP TRITON E10813
SO SRCGROUP TRITON L001 L002 L003 L004
SO SRCGROUP TRITON T8313 T8314 T8320 T8322 T8323
SO SRCGROUP TRITON T8331 T8334 T8343 T8344 T8360
SO SRCGROUP TRITON T8361 T8363 T8364 T8373 T8380
SO SRCGROUP TRITON T8381 T8383 T8390 T8391 T8392 T8393 T8420
SO SRCGROUP TRITON THF TRF TFNC
**
*****
*****
** Oxide Adducts Source Groups
**
```




```
** Oxide Adducts Point Source Groups
SO SRCGROUP OA_E70XP E704 E705 E706 E707 E708
SO SRCGROUP OA_TALLP T9120 T9121 T9128 T9129 T9151 T9180
SO SRCGROUP OA_TALLP T9181 T9182 T9186 T9187 T9223 T9228
SO SRCGROUP OA_TALLP T9502 T9504 T9505 T9507 T9509 T9510
SO SRCGROUP OA_TALLP T9511 T9512 T9553 T9554 T9555 T9556
SO SRCGROUP OA_TALLP T9562 T9563 T9565 T9568 T9569 T9612
SO SRCGROUP OA_TALLP T9614 T9615 T9616 T9617 T9619 T9622
SO SRCGROUP OA_TALLP T9624 T9625 T9627 T9629 T9632 T9634
SO SRCGROUP OA_TALLP T9635 T9637 T9640 T9643 T9645 T9646
SO SRCGROUP OA_TALLP T9649 T9734 T9736 T9738 T9749 T9798
SO SRCGROUP OA_TALLP T9812 T9814 T9815 T9822 T9824 T9825
SO SRCGROUP OA_LALLP L001TT1 L001TT2 L001TT3 L001TT4 L001TT5 L001TT6
** Oxide Adducts All Point Source Group
SO SRCGROUP OA_POINT E704 E705 E706 E707 E708
SO SRCGROUP OA_POINT T9120 T9121 T9128 T9129 T9151 T9180
SO SRCGROUP OA_POINT T9181 T9182 T9186 T9187 T9223 T9228
SO SRCGROUP OA_POINT T9502 T9504 T9505 T9507 T9509 T9510
SO SRCGROUP OA_POINT T9511 T9512 T9553 T9554 T9555 T9556
SO SRCGROUP OA_POINT T9562 T9563 T9565 T9568 T9569 T9612
SO SRCGROUP OA_POINT T9614 T9615 T9616 T9617 T9619 T9622
SO SRCGROUP OA_POINT T9624 T9625 T9627 T9629 T9632 T9634
SO SRCGROUP OA_POINT T9635 T9637 T9640 T9643 T9645 T9646
SO SRCGROUP OA_POINT T9649 T9734 T9736 T9738 T9749 T9798
SO SRCGROUP OA_POINT T9812 T9814 T9815 T9822 T9824 T9825
SO SRCGROUP OA_POINT L001TT1 L001TT2 L001TT3 L001TT4 L001TT5 L001TT6
** Oxide Adducts Fugitive Source Groups
SO SRCGROUP OAH2F OAH2
SO SRCGROUP OAR45F OAR451 OAR452
SO SRCGROUP OAR6F OAR6
SO SRCGROUP OAR7F OAR7
SO SRCGROUP OAWTILF OAWTIL
SO SRCGROUP OALIBF OALIB1 OALIB2 OALIB3
** Oxide Adducts All Fugitive Source Group
SO SRCGROUP OA_FUGIT OAH2
SO SRCGROUP OA_FUGIT OAR451 OAR452
SO SRCGROUP OA_FUGIT OAR6
SO SRCGROUP OA_FUGIT OAR7
SO SRCGROUP OA_FUGIT OAWTIL
SO SRCGROUP OA_FUGIT OALIB1 OALIB2 OALIB3
** Oxide Adducts - All Sources - Point and Fugitive
SO SRCGROUP OA_ALL E704 E705 E706 E707 E708
SO SRCGROUP OA_ALL T9120 T9121 T9128 T9129 T9151 T9180
SO SRCGROUP OA_ALL T9181 T9182 T9186 T9187 T9223 T9228
SO SRCGROUP OA_ALL T9502 T9504 T9505 T9507 T9509 T9510
SO SRCGROUP OA_ALL T9511 T9512 T9553 T9554 T9555 T9556
SO SRCGROUP OA_ALL T9562 T9563 T9565 T9568 T9569 T9612
SO SRCGROUP OA_ALL T9614 T9615 T9616 T9617 T9619 T9622
SO SRCGROUP OA_ALL T9624 T9625 T9627 T9629 T9632 T9634
SO SRCGROUP OA_ALL T9635 T9637 T9640 T9643 T9645 T9646
SO SRCGROUP OA_ALL T9649 T9734 T9736 T9738 T9749 T9798
SO SRCGROUP OA_ALL T9812 T9814 T9815 T9822 T9824 T9825
SO SRCGROUP OA_ALL L001TT1 L001TT2 L001TT3 L001TT4 L001TT5 L001TT6
SO SRCGROUP OA_ALL OAH2
SO SRCGROUP OA_ALL OAR451 OAR452
SO SRCGROUP OA_ALL OAR6
SO SRCGROUP OA_ALL OAR7
SO SRCGROUP OA_ALL OAWTIL
SO SRCGROUP OA_ALL OALIB1 OALIB2 OALIB3
```



```
*****
*****
** UCC - South Charleston Source Group - Oxide Adducts, Triton, Chemical
Mixing
** Oxide Adducts
SO SRCGROUP UCC_SC E704 E705 E706 E707 E708
SO SRCGROUP UCC_SC T9120 T9121 T9128 T9129 T9151 T9180
SO SRCGROUP UCC_SC T9181 T9182 T9186 T9187 T9223 T9228
SO SRCGROUP UCC_SC T9502 T9504 T9505 T9507 T9509 T9510
SO SRCGROUP UCC_SC T9511 T9512 T9553 T9554 T9555 T9556
SO SRCGROUP UCC_SC T9562 T9563 T9565 T9568 T9569 T9612
SO SRCGROUP UCC_SC T9614 T9615 T9616 T9617 T9619 T9622
SO SRCGROUP UCC_SC T9624 T9625 T9627 T9629 T9632 T9634
SO SRCGROUP UCC_SC T9635 T9637 T9640 T9643 T9645 T9646
SO SRCGROUP UCC_SC T9649 T9734 T9736 T9738 T9749 T9798
SO SRCGROUP UCC_SC T9812 T9814 T9815 T9822 T9824 T9825
SO SRCGROUP UCC_SC L001TT1 L001TT2 L001TT3 L001TT4 L001TT5 L001TT6
SO SRCGROUP UCC_SC OADR2
SO SRCGROUP UCC_SC OAR451 OAR452
SO SRCGROUP UCC_SC OAR6
SO SRCGROUP UCC_SC OAR7
SO SRCGROUP UCC_SC OAWTIL
SO SRCGROUP UCC_SC OALIB1 OALIB2 OALIB3
** Triton
SO SRCGROUP UCC_SC E10813
SO SRCGROUP UCC_SC L001 L002 L003 L004
SO SRCGROUP UCC_SC T8313 T8314 T8320 T8322 T8323
SO SRCGROUP UCC_SC T8331 T8334 T8343 T8344 T8360
SO SRCGROUP UCC_SC T8361 T8363 T8364 T8373 T8380
SO SRCGROUP UCC_SC T8381 T8383 T8390 T8391 T8392 T8393 T8420
SO SRCGROUP UCC_SC THF TRF TFNC
** Chemical Mixing
SO SRCGROUP UCC_SC CHMIX
```



Appendix F AERMOD Input Files

January Monitoring Event AERMOD Input: Institute

```
CO STARTING
CO TITLEONE Ethylene oxide - Institute
CO TITLETWO Ethylene Oxide Distribution AND Polyox Processes
CO MODELOPT DFAULT CONC NODRYDPLT NOWETDPLT
CO AVERTIME PERIOD
CO POLLUTID OTHER
CO RUNORNOT RUN
CO ERRORFIL error.fil
CO FINISHED

SO STARTING
SO ELEVUNIT METERS
SO INCLUDED INSTITUTE_jan_2022.INP
SO SRCGROUP ALL
SO FINISHED

RE STARTING
RE INCLUDED "ETO_INST_SC_Combined_RECEPTORS_no_onsite_072522.REC"
RE FINISHED

ME STARTING
ME SURFFILE INST_Jan_22.SFC
ME PROFFILE INST_Jan_22.PFL
ME SURFDATA 13866 2022 "Institute/South Charleston site, WV"
ME UAIRDATA 53829 2022
ME PROFBASE 180.24 METERS
ME STARTEND 22 01 25 11 22 01 26 12
**ME DAYRANGE 1-2
ME FINISHED

OU STARTING
OU PLOTFILE PERIOD ALL ETO_INST_ALL.plt
** EO DIST PLTs
OU PLOTFILE PERIOD EODISTFL ETO_INST_EODISTFL.plt
OU PLOTFILE PERIOD EODPOINT ETO_INST_EODPOINT.plt
OU PLOTFILE PERIOD EODRAILF ETO_INST_EODRAILF.plt
OU PLOTFILE PERIOD EODPUMPF ETO_INST_EODPUMPF.plt
OU PLOTFILE PERIOD EODTANKF ETO_INST_EODTANKSF.plt
OU PLOTFILE PERIOD EODFLARF ETO_INST_EODFLAREF.plt
OU PLOTFILE PERIOD EODR25F ETO_INST_EODR25F.plt
OU PLOTFILE PERIOD EODFUGI ETO_INST_EODFUGITIVE.plt
OU PLOTFILE PERIOD EODIST ETO_INST_EODIST.plt
** POLYOX PLTs
OU PLOTFILE PERIOD 221A ETO_INST_221A.plt
OU PLOTFILE PERIOD 230M ETO_INST_230M.plt
OU PLOTFILE PERIOD 230L ETO_INST_230L.plt
OU PLOTFILE PERIOD 230K ETO_INST_230K.plt
OU PLOTFILE PERIOD 2300 ETO_INST_2300.plt
OU PLOTFILE PERIOD 230HH ETO_INST_230HH.plt
OU PLOTFILE PERIOD PPOINT ETO_INST_PPOINT.plt
OU PLOTFILE PERIOD POLYVOL1 ETO_INST_POLYVOL1.plt
OU PLOTFILE PERIOD PBL8389 ETO_INST_PBL8389.plt
OU PLOTFILE PERIOD PFUGIT ETO_INST_PFUGITIVE.plt
OU PLOTFILE PERIOD POLYOX ETO_INST_POLOYOX.plt
**
OU SUMMFILE Summary.sum
OU FINISHED
```



January Monitoring Event AERMOD Input: South Charleston

CO STARTING
CO TITLEONE Ethylene oxide - South Charleston, WV Jan 25-26, 2022 Monitoring
Event
CO TITLETWO Oxide Adducts; Triton; Covestro; Chemical Mixing
CO MODELOPT DFAULT CONC NODRYDPLT NOWETDPLT
CO AVERTIME PERIOD
CO POLLUTID OTHER
CO RUNORNOT RUN
CO ERRORFIL error.fil
CO FINISHED

SO STARTING
SO ELEVUNIT METERS
SO INCLUDED SOUTH_CHARLESTON_jan_2022.inp
SO SRCGROUP ALL
SO FINISHED

RE STARTING
RE INCLUDED "ETO_INST_SC_Combined_RECEPTORS_no_onsite_072522.REC"
RE FINISHED

ME STARTING
ME SURFFILE SC_Jan_22.SFC
ME PROFFILE SC_Jan_22.PFL
ME SURFDATA 13866 2022 "Institute/South Charleston Site, WV"
ME UAIRDATA 53829 2022
ME PROFBASE 180.24 METERS
ME STARTEND 22 01 25 12 22 01 26 13
ME FINISHED

** ALL SOURCES

OU STARTING

OU PLOTFILE PERIOD ALL SC_ALL.plt

** Chemical Mixing

OU PLOTFILE PERIOD CHMIX CHMIX.plt

** Covestro

OU PLOTFILE PERIOD COVESTRO COVESTRO.plt

OU PLOTFILE PERIOD CPOINT CPOINT.plt

OU PLOTFILE PERIOD CFUGIT CFUGIT.plt

OU PLOTFILE PERIOD 1RX 1RX.plt

OU PLOTFILE PERIOD 2RX 2RX.plt

OU PLOTFILE PERIOD 3RX 3RX.plt

OU PLOTFILE PERIOD 789RX 789RX.plt

OU PLOTFILE PERIOD CE003F CE003F.plt

OU PLOTFILE PERIOD CPIVF CPIVF.plt

** Triton

OU PLOTFILE PERIOD TRITON TRITON.plt

OU PLOTFILE PERIOD T_POINT T_POINT.plt

OU PLOTFILE PERIOD T_FUGIT T_FUGIT.plt

OU PLOTFILE PERIOD TE10813 TE10813.plt

OU PLOTFILE PERIOD T_L_All T_L_All.plt

OU PLOTFILE PERIOD T_T_All T_T_All.plt

OU PLOTFILE PERIOD THF THF.plt

OU PLOTFILE PERIOD TRF TRF.plt

OU PLOTFILE PERIOD TFNC TFNC.plt



```
*****
** Oxide Adducts
OU PLOTFILE PERIOD OA_ALL OA_ALL.plt
OU PLOTFILE PERIOD OA_POINT OA_POINT.plt
OU PLOTFILE PERIOD OA_FUGIT OA_FUGIT.plt
OU PLOTFILE PERIOD OA_E70XP OA_E70XP.plt
OU PLOTFILE PERIOD OA_TALLP OA_TALLP.plt
OU PLOTFILE PERIOD OA_LALLP OA_LALLP.plt
OU PLOTFILE PERIOD OHR2F OHR2F.plt
OU PLOTFILE PERIOD OAR45F OAR45F.plt
OU PLOTFILE PERIOD OAR6F OAR6F.plt
OU PLOTFILE PERIOD OAR7F OAR7F.plt
OU PLOTFILE PERIOD OAWTILF OAWTILF.plt
OU PLOTFILE PERIOD OALIBF OALIBF.plt
*****
** UCC - South Charleston - Oxide Adducts, Triton, Chemical Mix
OU PLOTFILE PERIOD UCC_SC UCC_SC.plt
*****
OU SUMMFILE Summary.sum
OU FINISHED
```




February Monitoring Event AERMOD Input: Institute

```
CO STARTING
CO TITLEONE Ethylene oxide - Institute
CO TITLETWO Ethylene Oxide Distribution AND Polyox Processes
CO MODELOPT DEFAULT CONC NODRYDPLT NOWETDPLT
CO AVERTIME PERIOD
CO POLLUTID OTHER
CO RUNORNOT RUN
CO ERRORFIL error.fil
CO FINISHED

SO STARTING
SO ELEVUNIT METERS
SO INCLUDED INSTITUTE_feb_2022.INP
SO SRCGROUP ALL
SO FINISHED

RE STARTING
RE INCLUDED "ETO_INST_SC_Combined_RECEPTORS_no_onsite_072522.REC"
RE FINISHED

ME STARTING
ME SURFFILE INST_Feb_22.SFC
ME PROFFILE INST_Feb_22.PFL
ME SURFDATA 13866 2022 "Institute/South Charleston Site, WV"
ME UAIRDATA 53829 2022
ME PROFBASE 180.24 METERS
ME STARTEND 22 02 15 11 22 02 16 11
**ME DAYRANGE 1-2
ME FINISHED

OU STARTING
OU PLOTFILE PERIOD ALL ETO_INST_ALL.plt
** EO DIST PLTs
OU PLOTFILE PERIOD EODISTFL ETO_INST_EODISTFL.plt
OU PLOTFILE PERIOD EODPOINT ETO_INST_EODPOINT.plt
OU PLOTFILE PERIOD EODRAILF ETO_INST_EODRAILF.plt
OU PLOTFILE PERIOD EODPUMPF ETO_INST_EODPUMPF.plt
OU PLOTFILE PERIOD EODTANKF ETO_INST_EODTANKSF.plt
OU PLOTFILE PERIOD EODFLARF ETO_INST_EODFLAREF.plt
OU PLOTFILE PERIOD EODR25F ETO_INST_EODR25F.plt
OU PLOTFILE PERIOD EODFUGI ETO_INST_EODFUGITIVE.plt
OU PLOTFILE PERIOD EODIST ETO_INST_EODIST.plt
** POLYOX PLTs
OU PLOTFILE PERIOD 221A ETO_INST_221A.plt
OU PLOTFILE PERIOD 230M ETO_INST_230M.plt
OU PLOTFILE PERIOD 230L ETO_INST_230L.plt
OU PLOTFILE PERIOD 230K ETO_INST_230K.plt
OU PLOTFILE PERIOD 2300 ETO_INST_2300.plt
OU PLOTFILE PERIOD 230HH ETO_INST_230HH.plt
OU PLOTFILE PERIOD PPOINT ETO_INST_PPOINT.plt
OU PLOTFILE PERIOD POLYVOL1 ETO_INST_POLYVOL1.plt
OU PLOTFILE PERIOD PBL8389 ETO_INST_PBL8389.plt
OU PLOTFILE PERIOD PFUGIT ETO_INST_PFUGITIVE.plt
OU PLOTFILE PERIOD POLYOX ETO_INST_POLOYOX.plt
**
OU SUMMFILE Summary.sum
OU FINISHED
```



February Monitoring Event AERMOD Input: South Charleston

CO STARTING
CO TITLEONE Ethylene oxide - South Charleston, WV Feb 15-16, 2022 Monitoring
Event
CO TITLETWO Oxide Adducts; Triton; Covestro; Chemical Mixing
CO MODELOPT DFAULT CONC NODRYDPLT NOWETDPLT
CO AVERTIME PERIOD
CO POLLUTID OTHER
CO RUNORNOT RUN
CO ERRORFIL error.fil
CO FINISHED

SO STARTING
SO ELEVUNIT METERS
SO INCLUDED SOUTH_CHARLESTON_feb_2022.inp
SO SRCGROUP ALL
SO FINISHED

RE STARTING
RE INCLUDED "ETO_INST_SC_Combined_RECEPTORS_no_onsite_072522.REC"
RE FINISHED

ME STARTING
ME SURFFILE SC_Feb_22.SFC
ME PROFFILE SC_Feb_22.PFL
ME SURFDATA 13866 2022 "Institute/South Charleston Site, WV"
ME UAIRDATA 53829 2022
ME PROFBASE 180.24 METERS
ME STARTEND 22 02 15 13 22 02 16 13
ME FINISHED

** ALL SOURCES

OU STARTING

OU PLOTFILE PERIOD ALL SC_ALL.plt

** Chemical Mixing

OU PLOTFILE PERIOD CHMIX CHMIX.plt

** Covestro

OU PLOTFILE PERIOD COVESTRO COVESTRO.plt

OU PLOTFILE PERIOD CPOINT CPOINT.plt

OU PLOTFILE PERIOD CFUGIT CFUGIT.plt

OU PLOTFILE PERIOD 1RX 1RX.plt

OU PLOTFILE PERIOD 2RX 2RX.plt

OU PLOTFILE PERIOD 3RX 3RX.plt

OU PLOTFILE PERIOD 789RX 789RX.plt

OU PLOTFILE PERIOD CE003F CE003F.plt

OU PLOTFILE PERIOD CPIVF CPIVF.plt

** Triton

OU PLOTFILE PERIOD TRITON TRITON.plt

OU PLOTFILE PERIOD T_POINT T_POINT.plt

OU PLOTFILE PERIOD T_FUGIT T_FUGIT.plt

OU PLOTFILE PERIOD TE10813 TE10813.plt

OU PLOTFILE PERIOD T_L_All T_L_All.plt

OU PLOTFILE PERIOD T_T_All T_T_All.plt

OU PLOTFILE PERIOD THF THF.plt

OU PLOTFILE PERIOD TRF TRF.plt



```
OU PLOTFILE PERIOD TFNC TFNC.plt
*****
** Oxide Adducts
OU PLOTFILE PERIOD OA_ALL OA_ALL.plt
OU PLOTFILE PERIOD OA_POINT OA_POINT.plt
OU PLOTFILE PERIOD OA_FUGIT OA_FUGIT.plt
OU PLOTFILE PERIOD OA_E70XP OA_E70XP.plt
OU PLOTFILE PERIOD OA_TALLP OA_TALLP.plt
OU PLOTFILE PERIOD OA_LALLP OA_LALLP.plt
OU PLOTFILE PERIOD OAH2F OAH2F.plt
OU PLOTFILE PERIOD OAR45F OAR45F.plt
OU PLOTFILE PERIOD OAR6F OAR6F.plt
OU PLOTFILE PERIOD OAR7F OAR7F.plt
OU PLOTFILE PERIOD OAWTILF OAWTILF.plt
OU PLOTFILE PERIOD OALIBF OALIBF.plt
*****
** UCC - South Charleston - Oxide Adducts, Triton, Chemical Mix
OU PLOTFILE PERIOD UCC_SC UCC_SC.plt
*****
OU SUMMFILE Summary.sum
OU FINISHED
```



March Monitoring Event AERMOD Input: Institute

```
CO STARTING
CO TITLEONE Ethylene oxide - Institute
CO TITLETWO Ethylene Oxide Distribution AND Polyox Processes
CO MODELOPT DEFAULT CONC NODRYDPLT NOWETDPLT
CO AVERTIME PERIOD
CO POLLUTID OTHER
CO RUNORNOT RUN
CO ERRORFIL error.fil
CO FINISHED

SO STARTING
SO ELEVUNIT METERS
SO INCLUDED INSTITUTE_Mar_2022.INP
SO SRCGROUP ALL
SO FINISHED

RE STARTING
RE INCLUDED "ETO_INST_SC_COMBINED_RECEPTORS_no_onsite_072522.REC"
RE FINISHED

ME STARTING
ME SURFFILE INST_Mar_22.SFC
ME PROFFILE INST_Mar_22.PFL
ME SURFDATA 13866 2022 "Institute/South Charleston Site, WV"
ME UAIRDATA 53829 2022
ME PROFBASE 180.24 METERS
ME STARTEND 22 03 23 10 22 03 24 11
**ME DAYRANGE 1-2
ME FINISHED

OU STARTING
OU PLOTFILE PERIOD ALL ETO_INST_ALL.plt
** EO DIST PLTs
OU PLOTFILE PERIOD EODISTFL ETO_INST_EODISTFL.plt
OU PLOTFILE PERIOD EODPOINT ETO_INST_EODPOINT.plt
OU PLOTFILE PERIOD EODRAILF ETO_INST_EODRAILF.plt
OU PLOTFILE PERIOD EODPUMPF ETO_INST_EODPUMPF.plt
OU PLOTFILE PERIOD EODTANKF ETO_INST_EODTANKSF.plt
OU PLOTFILE PERIOD EODFLARF ETO_INST_EODFLAREF.plt
OU PLOTFILE PERIOD EODR25F ETO_INST_EODR25F.plt
OU PLOTFILE PERIOD EODFUGI ETO_INST_EODFUGITIVE.plt
OU PLOTFILE PERIOD EODIST ETO_INST_EODIST.plt
** POLYOX PLTs
OU PLOTFILE PERIOD 221A ETO_INST_221A.plt
OU PLOTFILE PERIOD 230M ETO_INST_230M.plt
OU PLOTFILE PERIOD 230L ETO_INST_230L.plt
OU PLOTFILE PERIOD 230K ETO_INST_230K.plt
OU PLOTFILE PERIOD 2300 ETO_INST_2300.plt
OU PLOTFILE PERIOD 230HH ETO_INST_230HH.plt
OU PLOTFILE PERIOD PPOINT ETO_INST_PPOINT.plt
OU PLOTFILE PERIOD POLYVOL1 ETO_INST_POLYVOL1.plt
OU PLOTFILE PERIOD PBL8389 ETO_INST_PBL8389.plt
OU PLOTFILE PERIOD PFUGIT ETO_INST_PFUGITIVE.plt
OU PLOTFILE PERIOD POLYOX ETO_INST_POLOYOX.plt
**
OU SUMMFILE Summary.sum
OU FINISHED
```



March Monitoring Event AERMOD Input: South Charleston

CO STARTING
CO TITLEONE Ethylene oxide - South Charleston, WV Mar 23-24, 2022 Monitoring
Event
CO TITLETWO Oxide Adducts; Triton; Covestro; Chemical Mixing
CO MODELOPT DFAULT CONC NODRYDPLT NOWETDPLT
CO AVERTIME PERIOD
CO POLLUTID OTHER
CO RUNORNOT RUN
CO ERRORFIL error.fil
CO FINISHED

SO STARTING
SO ELEVUNIT METERS
SO INCLUDED SOUTH_CHARLESTON_mar_2022.inp
SO SRCGROUP ALL
SO FINISHED

RE STARTING
RE INCLUDED "ETO_INST_SC_Combined_RECEPTORS_no_onsite_072522.REC"
RE FINISHED

ME STARTING
ME SURFFILE SC_Mar_22.SFC
ME PROFILE SC_Mar_22.PFL
ME SURFDATA 13866 2022 "Institute/South Charleston Site, WV"
ME UAIRDATA 53829 2022
ME PROFBASE 180.24 METERS
ME STARTEND 22 03 23 12 22 03 24 12
ME FINISHED

** ALL SOURCES

OU STARTING

OU PLOTFILE PERIOD ALL SC_ALL.plt

** Chemical Mixing

OU PLOTFILE PERIOD CHMIX CHMIX.plt

** Covestro

OU PLOTFILE PERIOD COVESTRO COVESTRO.plt

OU PLOTFILE PERIOD CPOINT CPOINT.plt

OU PLOTFILE PERIOD CFUGIT CFUGIT.plt

OU PLOTFILE PERIOD 1RX 1RX.plt

OU PLOTFILE PERIOD 2RX 2RX.plt

OU PLOTFILE PERIOD 3RX 3RX.plt

OU PLOTFILE PERIOD 789RX 789RX.plt

OU PLOTFILE PERIOD CE003F CE003F.plt

OU PLOTFILE PERIOD CPIVF CPIVF.plt

** Triton

OU PLOTFILE PERIOD TRITON TRITON.plt

OU PLOTFILE PERIOD T_POINT T_POINT.plt

OU PLOTFILE PERIOD T_FUGIT T_FUGIT.plt

OU PLOTFILE PERIOD TE10813 TE10813.plt

OU PLOTFILE PERIOD T_L_All T_L_All.plt

OU PLOTFILE PERIOD T_T_All T_T_All.plt

OU PLOTFILE PERIOD THF THF.plt

OU PLOTFILE PERIOD TRF TRF.plt

OU PLOTFILE PERIOD TFNC TFNC.plt



```
*****
** Oxide Adducts
OU PLOTFILE PERIOD OA_ALL OA_ALL.plt
OU PLOTFILE PERIOD OA_POINT OA_POINT.plt
OU PLOTFILE PERIOD OA_FUGIT OA_FUGIT.plt
OU PLOTFILE PERIOD OA_E70XP OA_E70XP.plt
OU PLOTFILE PERIOD OA_TALLP OA_TALLP.plt
OU PLOTFILE PERIOD OA_LALLP OA_LALLP.plt
OU PLOTFILE PERIOD OHR2F OHR2F.plt
OU PLOTFILE PERIOD OAR45F OAR45F.plt
OU PLOTFILE PERIOD OAR6F OAR6F.plt
OU PLOTFILE PERIOD OAR7F OAR7F.plt
OU PLOTFILE PERIOD OAWTILF OAWTILF.plt
OU PLOTFILE PERIOD OALIBF OALIBF.plt
*****
** UCC - South Charleston - Oxide Adducts, Triton, Chemical Mix
OU PLOTFILE PERIOD UCC_SC UCC_SC.plt
*****
OU SUMMFILE Summary.sum
OU FINISHED
```



April Monitoring Event AERMOD Input: Institute

```
CO STARTING
CO TITLEONE Ethylene oxide - Institute
CO TITLETWO Ethylene Oxide Distribution AND Polyox Processes
CO MODELOPT DFAULT CONC NODRYDPLT NOWETDPLT
CO AVERTIME PERIOD
CO POLLUTID OTHER
CO RUNORNOT RUN
CO ERRORFIL error.fil
CO FINISHED

SO STARTING
SO ELEVUNIT METERS
SO INCLUDED INSTITUTE_APR_2022.INP
SO SRCGROUP ALL
SO FINISHED

RE STARTING
RE INCLUDED "ETO_INST_SC_COMBINED_RECEPTORS_no_onsite_072522.REC"
RE FINISHED

ME STARTING
ME SURFFILE WV_APR_22.SFC
ME PROFILE WV_APR_22.PFL
ME SURFDATA 13866 2022 "Institute/South Charleston Site, WV"
ME UAIRDATA 53829 2022
ME PROFBASE 180.24 METERS
ME STARTEND 22 04 25 11 22 04 26 10
**ME DAYRANGE 1-2
ME FINISHED

OU STARTING
OU PLOTFILE PERIOD ALL ETO_INST_ALL.plt
** EO DIST PLTs
OU PLOTFILE PERIOD EODISTFL ETO_INST_EODISTFL.plt
OU PLOTFILE PERIOD EODPOINT ETO_INST_EODPOINT.plt
OU PLOTFILE PERIOD EODRAILF ETO_INST_EODRAILF.plt
OU PLOTFILE PERIOD EODPUMPF ETO_INST_EODPUMPF.plt
OU PLOTFILE PERIOD EODTANKF ETO_INST_EODTANKSF.plt
OU PLOTFILE PERIOD EODFLARF ETO_INST_EODFLAREF.plt
OU PLOTFILE PERIOD EODR25F ETO_INST_EODR25F.plt
OU PLOTFILE PERIOD EODFUGI ETO_INST_EODFUGITIVE.plt
OU PLOTFILE PERIOD EODIST ETO_INST_EODIST.plt
** POLYOX PLTs
OU PLOTFILE PERIOD 221A ETO_INST_221A.plt
OU PLOTFILE PERIOD 230M ETO_INST_230M.plt
OU PLOTFILE PERIOD 230L ETO_INST_230L.plt
OU PLOTFILE PERIOD 230K ETO_INST_230K.plt
OU PLOTFILE PERIOD 230O ETO_INST_230O.plt
OU PLOTFILE PERIOD 230HH ETO_INST_230HH.plt
OU PLOTFILE PERIOD PPOINT ETO_INST_PPOINT.plt
OU PLOTFILE PERIOD POLYVOL1 ETO_INST_POLYVOL1.plt
OU PLOTFILE PERIOD PBL8389 ETO_INST_PBL8389.plt
OU PLOTFILE PERIOD PFUGIT ETO_INST_PFUGITIVE.plt
OU PLOTFILE PERIOD POLYOX ETO_INST_POLOYOX.plt
**
OU SUMMFILE Summary.sum
OU FINISHED
```



April Monitoring Event AERMOD Input: South Charleston

```
CO STARTING
CO TITLEONE Ethylene oxide - South Charleston, WV Apr 26-27, 2022 Monitoring
Event
CO TITLETWO Oxide Adducts; Triton; Covestro; Chemical Mixing
**Surface data was redownloaded to correct missing data issues from previous
model run
CO MODELOPT DEFAULT CONC NODRYDPLT NOWETDPLT
CO AVERTIME PERIOD
CO POLLUTID OTHER
CO RUNORNOT RUN
CO ERRORFIL error.fil
CO FINISHED

SO STARTING
SO ELEVUNIT METERS
SO INCLUDED SOUTH_CHARLESTON_APR_2022.inp
SO SRCGROUP ALL
SO FINISHED

RE STARTING
RE INCLUDED "ETO_INST_SC_Combined_RECEPTORS_no_onsite_072522.REC"
RE FINISHED

ME STARTING
ME SURFFILE SC_APR_22.SFC
ME PROFFILE SC_APR_22.PFL
ME SURFDATA 13866 2022 "Institute/South Charleston Site, WV"
ME UAIRDATA 53829 2022
ME PROFBASE 180.24 METERS
ME STARTEND 22 04 26 14 22 04 27 13
ME FINISHED
*****
** ALL SOURCES
OU STARTING
OU PLOTFILE PERIOD ALL SC_ALL.plt
*****
** Chemical Mixing
OU PLOTFILE PERIOD CHMIX CHMIX.plt
*****
** Covestro
OU PLOTFILE PERIOD COVESTRO COVESTRO.plt
OU PLOTFILE PERIOD CPOINT CPOINT.plt
OU PLOTFILE PERIOD CFUGIT CFUGIT.plt
OU PLOTFILE PERIOD 1RX 1RX.plt
OU PLOTFILE PERIOD 2RX 2RX.plt
OU PLOTFILE PERIOD 3RX 3RX.plt
OU PLOTFILE PERIOD 789RX 789RX.plt
OU PLOTFILE PERIOD CE003F CE003F.plt
OU PLOTFILE PERIOD CPIVF CPIVF.plt
*****
** Triton
OU PLOTFILE PERIOD TRITON TRITON.plt
OU PLOTFILE PERIOD T_POINT T_POINT.plt
OU PLOTFILE PERIOD T_FUGIT T_FUGIT.plt
OU PLOTFILE PERIOD TE10813 TE10813.plt
OU PLOTFILE PERIOD T_L_All T_L_All.plt
OU PLOTFILE PERIOD T_T_All T_T_All.plt
OU PLOTFILE PERIOD THF THF.plt
```



```
OU PLOTFILE PERIOD TRF TRF.plt
OU PLOTFILE PERIOD TFNC TFNC.plt
*****
** Oxide Adducts
OU PLOTFILE PERIOD OA_ALL OA_ALL.plt
OU PLOTFILE PERIOD OA_POINT OA_POINT.plt
OU PLOTFILE PERIOD OA_FUGIT OA_FUGIT.plt
OU PLOTFILE PERIOD OA_E70XP OA_E70XP.plt
OU PLOTFILE PERIOD OA_TALLP OA_TALLP.plt
OU PLOTFILE PERIOD OA_LALLP OA_LALLP.plt
OU PLOTFILE PERIOD OADR2F OADR2F.plt
OU PLOTFILE PERIOD OADR45F OADR45F.plt
OU PLOTFILE PERIOD OADR6F OADR6F.plt
OU PLOTFILE PERIOD OADR7F OADR7F.plt
OU PLOTFILE PERIOD OAWTILF OAWTILF.plt
OU PLOTFILE PERIOD OALIBF OALIBF.plt
*****
** UCC - South Charleston - Oxide Adducts, Triton, Chemical Mix
OU PLOTFILE PERIOD UCC_SC UCC_SC.plt
*****
OU SUMMFILE Summary.sum
OU FINISHED
```



Appendix G AERMOD Summary Files

January Monitoring Event AERMOD Summary File: Institute

```
*** AERMOD - VERSION 22112 *** *** Ethylene oxide - Institute *** 08/23/22
*** AERMET - VERSION 22112 *** *** Ethylene Oxide Distribution AND Polyox Processes *** 11:17:26
*** MODELOPTS: RegDEFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U* *** 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.
* ADJ_U* - Use ADJ_U* option for SBL in AERMET
* Model Assumes No FLAGPOLE Receptor Heights.
* The User Specified a Pollutant Type of: OTHER

**Model Calculates PERIOD Averages Only

**This Run Includes: 26 Source(s); 21 Source Group(s); and 15537 Receptor(s)

with: 7 POINT(s), including 0 POINTCAP(s) and 0 POINTHOR(s)
and: 19 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 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: 22112

**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)

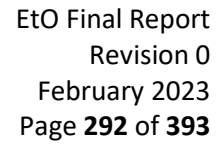
**NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours
m for Missing Hours
b for Both Calm and Missing Hours

**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 180.24 ; 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 = 14.6 MB of RAM.

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

**Detailed Error/Message File: error.fil
**File for Summary of Results: Summary.sum
```

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



*** AERMOD - VERSION 22112 *** *** Ethylene oxide - Institute *** 08/23/22
*** AERMET - VERSION 22112 *** *** Ethylene Oxide Distribution AND Polyox Processes *** 11:17:26
PAGE 3

*** MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*
*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file: INST_Jan_22.SFC Met Version: 22112
Profile file: INST_Jan_22.PFL
Surface format: FREE
Profile Format: FREE
Surface station no.: 13866 Upper air station no.: 53829
Name: INSTITUTE/SOUTH CHARLESTON SITE, WV Name: UNKNOWN
Year: 2022 Year: 2022

First 24 hours of scalar data																						
YR	MO	DY	JDY	HR	HO	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O	LEN	Z0	BOWEN	ALBEDO	REF	WS	WD	HT	REF	TA	HT
22	01	25	25	01	-1.5	0.063	-9.000	-9.000	-999.	38.	15.2	0.23	0.90	1.00	0.40	3.	7.9	278.8	7.9			
22	01	25	25	02	-8.2	0.123	-9.000	-9.000	-999.	104.	20.0	0.23	0.90	1.00	1.16	2.	7.9	278.6	7.9			
22	01	25	25	03	-2.7	0.073	-9.000	-9.000	-999.	48.	12.9	0.23	0.90	1.00	0.63	21.	7.9	277.8	7.9			
22	01	25	25	04	-2.7	0.075	-9.000	-9.000	-999.	49.	13.5	0.35	0.90	1.00	0.54	83.	7.9	277.4	7.9			
22	01	25	25	05	-5.6	0.101	-9.000	-9.000	-999.	77.	16.3	0.24	0.90	1.00	0.94	96.	7.9	277.3	7.9			
22	01	25	25	06	-26.4	0.264	-9.000	-9.000	-999.	325.	76.5	0.14	0.90	1.00	2.77	360.	7.9	274.6	7.9			
22	01	25	25	07	-13.4	0.158	-9.000	-9.000	-999.	156.	27.6	0.24	0.90	1.00	1.43	93.	7.9	273.6	7.9			
22	01	25	25	08	-17.4	0.181	-9.000	-9.000	-999.	184.	35.9	0.23	0.90	1.00	1.65	26.	7.9	273.8	7.9			
22	01	25	25	09	-2.9	0.080	-9.000	-9.000	-999.	60.	15.6	0.23	0.90	0.44	0.76	20.	7.9	274.0	7.9			
22	01	25	25	10	0.1	0.070	0.023	0.010	4.	44.	302.1	0.12	0.90	0.28	0.72	321.	7.9	272.1	7.9			
22	01	25	25	11	0.1	0.087	0.026	0.008	6.	62.	-582.5	0.01	0.90	0.22	1.52	293.	7.9	272.1	7.9			
22	01	25	25	12	0.1	0.163	0.027	0.005	7.	158.	-3811.5	0.01	0.90	0.20	2.86	293.	7.9	273.1	7.9			
22	01	25	25	13	0.1	0.067	0.029	0.009	8.	47.	-264.7	0.01	0.90	0.19	1.16	275.	7.9	273.1	7.9			
22	01	25	25	14	0.1	0.107	0.030	0.006	9.	84.	-1087.4	0.12	0.90	0.20	1.12	319.	7.9	273.1	7.9			
22	01	25	25	15	0.1	0.090	0.031	0.008	10.	65.	-651.0	0.12	0.90	0.21	0.94	310.	7.9	273.1	7.9			
22	01	25	25	16	0.1	0.040	0.032	0.012	11.	20.	-57.1	0.01	0.90	0.25	0.67	281.	7.9	273.1	7.9			
22	01	25	25	17	-0.7	0.045	-9.000	-9.000	-999.	23.	11.8	0.12	0.90	0.37	0.49	319.	7.9	273.9	7.9			
22	01	25	25	18	-1.2	0.059	-9.000	-9.000	-999.	34.	15.1	0.12	0.90	0.71	0.40	315.	7.9	273.1	7.9			
22	01	25	25	19	-0.5	0.043	-9.000	-9.000	-999.	21.	15.6	0.01	0.90	1.00	0.28	279.	7.9	272.1	7.9			
22	01	25	25	20	-1.3	0.053	-9.000	-9.000	-999.	30.	10.5	0.02	0.90	1.00	0.58	255.	7.9	271.1	7.9			
22	01	25	25	21	1.7	0.063	-9.000	-9.000	-999.	38.	12.8	0.12	0.90	1.00	0.54	305.	7.9	271.1	7.9			
22	01	25	25	22	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.04	0.90	1.00	0.28	208.	7.9	270.1	7.9			
22	01	25	25	23	-0.9	0.046	-9.000	-9.000	-999.	24.	10.4	0.01	0.90	1.00	0.49	290.	7.9	270.1	7.9			
22	01	25	25	24	-5.5	0.091	-9.000	-9.000	-999.	66.	12.1	0.02	0.90	1.00	1.48	261.	7.9	279.1	7.9			

First hour of profile data
YR MO DY HR HEIGHT F WDIR WSPD AMB_TMP sigmaA sigmaW sigmaV
22 01 25 01 7.9 1 3. 0.40 278.8 99.0 -99.00 -99.00

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



*** AERMOD - VERSION 22112 *** *** Ethylene oxide - Institute *** 08/23/22
*** AERMET - VERSION 22112 *** *** Ethylene Oxide Distribution AND Polyox Processes *** 11:17:26
*** MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U* PAGE 4

*** THE SUMMARY OF MAXIMUM PERIOD (26 HRS) RESULTS ***

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

GROUP ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
EODISTFL	1ST HIGHEST VALUE IS 0.07311 AT (432492.99, 4249130.00, 215.50, 325.70, 0.00)	DC		
	2ND HIGHEST VALUE IS 0.06762 AT (432392.99, 4249180.00, 215.80, 325.70, 0.00)	DC		
	3RD HIGHEST VALUE IS 0.06590 AT (432442.99, 4249130.00, 212.10, 325.70, 0.00)	DC		
	4TH HIGHEST VALUE IS 0.05256 AT (432542.99, 4249130.00, 211.80, 325.70, 0.00)	DC		
	5TH HIGHEST VALUE IS 0.04898 AT (432703.87, 4249110.67, 213.40, 325.70, 0.00)	DC		
	6TH HIGHEST VALUE IS 0.03463 AT (432731.66, 4249218.67, 217.30, 325.70, 0.00)	DC		
	7TH HIGHEST VALUE IS 0.03275 AT (432331.66, 4249218.67, 216.70, 325.70, 0.00)	DC		
	8TH HIGHEST VALUE IS 0.03058 AT (432592.99, 4249130.00, 218.00, 325.70, 0.00)	DC		
	9TH HIGHEST VALUE IS 0.03025 AT (433031.66, 4249418.67, 212.30, 327.60, 0.00)	DC		
	10TH HIGHEST VALUE IS 0.02888 AT (433731.66, 4249518.67, 215.50, 342.10, 0.00)	DC		
EODPOINT	1ST HIGHEST VALUE IS 0.07311 AT (432492.99, 4249130.00, 215.50, 325.70, 0.00)	DC		
	2ND HIGHEST VALUE IS 0.06762 AT (432392.99, 4249180.00, 215.80, 325.70, 0.00)	DC		
	3RD HIGHEST VALUE IS 0.06590 AT (432442.99, 4249130.00, 212.10, 325.70, 0.00)	DC		
	4TH HIGHEST VALUE IS 0.05256 AT (432542.99, 4249130.00, 211.80, 325.70, 0.00)	DC		
	5TH HIGHEST VALUE IS 0.04898 AT (432703.87, 4249110.67, 213.40, 325.70, 0.00)	DC		
	6TH HIGHEST VALUE IS 0.03463 AT (432731.66, 4249218.67, 217.30, 325.70, 0.00)	DC		
	7TH HIGHEST VALUE IS 0.03275 AT (432331.66, 4249218.67, 216.70, 325.70, 0.00)	DC		
	8TH HIGHEST VALUE IS 0.03058 AT (432592.99, 4249130.00, 218.00, 325.70, 0.00)	DC		
	9TH HIGHEST VALUE IS 0.03025 AT (433031.66, 4249418.67, 212.30, 327.60, 0.00)	DC		
	10TH HIGHEST VALUE IS 0.02888 AT (433731.66, 4249518.67, 215.50, 342.10, 0.00)	DC		
EODRAILF	1ST HIGHEST VALUE IS 0.09114 AT (431386.12, 4248944.69, 182.00, 328.25, 0.00)	DC		
	2ND HIGHEST VALUE IS 0.05866 AT (432114.34, 4249063.48, 183.18, 326.46, 0.00)	DC		
	3RD HIGHEST VALUE IS 0.05167 AT (432431.66, 4249018.67, 187.40, 326.50, 0.00)	DC		
	4TH HIGHEST VALUE IS 0.05117 AT (432392.99, 4249030.00, 186.80, 326.50, 0.00)	DC		
	5TH HIGHEST VALUE IS 0.04917 AT (432442.99, 4249030.00, 188.60, 326.50, 0.00)	DC		
	6TH HIGHEST VALUE IS 0.04681 AT (432292.99, 4249080.00, 186.20, 326.50, 0.00)	DC		
	7TH HIGHEST VALUE IS 0.04641 AT (432492.99, 4249030.00, 190.90, 326.50, 0.00)	DC		
	8TH HIGHEST VALUE IS 0.04568 AT (431492.99, 4248330.00, 181.30, 326.50, 0.00)	DC		
	9TH HIGHEST VALUE IS 0.04555 AT (432531.66, 4249018.67, 191.00, 325.70, 0.00)	DC		
	10TH HIGHEST VALUE IS 0.04426 AT (432379.22, 4249066.23, 186.60, 326.50, 0.00)	DC		
EODPUMP*	1ST HIGHEST VALUE IS 0.21236 AT (431386.12, 4248944.69, 182.00, 328.25, 0.00)	DC		
	2ND HIGHEST VALUE IS 0.11295 AT (432114.34, 4249063.48, 183.18, 326.46, 0.00)	DC		
	3RD HIGHEST VALUE IS 0.09601 AT (432392.99, 4249030.00, 186.80, 326.50, 0.00)	DC		
	4TH HIGHEST VALUE IS 0.09577 AT (432442.99, 4249030.00, 188.60, 326.50, 0.00)	DC		
	5TH HIGHEST VALUE IS 0.08922 AT (432431.66, 4249018.67, 187.40, 326.50, 0.00)	DC		
	6TH HIGHEST VALUE IS 0.08802 AT (432203.87, 4249110.67, 186.90, 326.50, 0.00)	DC		
	7TH HIGHEST VALUE IS 0.08729 AT (432192.99, 4249130.00, 186.80, 326.50, 0.00)	DC		
	8TH HIGHEST VALUE IS 0.08705 AT (432492.99, 4249030.00, 190.90, 326.50, 0.00)	DC		
	9TH HIGHEST VALUE IS 0.08606 AT (432142.99, 4249130.00, 186.10, 326.50, 0.00)	DC		
	10TH HIGHEST VALUE IS 0.08273 AT (432231.66, 4249118.67, 186.90, 326.50, 0.00)	DC		



*** AERMOD - VERSION 22112 ***			*** Ethylene oxide - Institute						***			08/23/22		
*** AERMET - VERSION 22112 ***			*** Ethylene Oxide Distribution AND Polyox Processes						***			11:17:26		
*** MODELOPTS:			RegDFAULT	CONC	ELEV	NODRYDPLT	NOWETDPLT	RURAL	ADJ_U*				PAGE 5	
*** THE SUMMARY OF MAXIMUM PERIOD (26 HRS) RESULTS ***														
** CONC OF OTHER IN MICROGRAMS/M**3 **														
GROUP ID		AVERAGE CONC			RECEPTOR (XR, YR, ZELEV, ZHLL, ZFLAG)					OF TYPE		NETWORK GRID-ID		
EODTANKF		1ST HIGHEST VALUE IS	0.14593	AT (	431386.12,	4248944.69,	182.00,	328.25,	0.00)	DC				
		2ND HIGHEST VALUE IS	0.06535	AT (	432114.34,	4249063.48,	183.18,	326.46,	0.00)	DC				
		3RD HIGHEST VALUE IS	0.05108	AT (	432292.99,	4249080.00,	186.20,	326.50,	0.00)	DC				
		4TH HIGHEST VALUE IS	0.04965	AT (	432379.22,	4249066.23,	186.60,	326.50,	0.00)	DC				
		5TH HIGHEST VALUE IS	0.04942	AT (	432142.99,	4249130.00,	186.10,	326.50,	0.00)	DC				
		6TH HIGHEST VALUE IS	0.04920	AT (	432203.87,	4249110.67,	186.90,	326.50,	0.00)	DC				
		7TH HIGHEST VALUE IS	0.04897	AT (	432342.99,	4249080.00,	186.20,	326.50,	0.00)	DC				
		8TH HIGHEST VALUE IS	0.04828	AT (	432392.99,	4249030.00,	186.80,	326.50,	0.00)	DC				
		9TH HIGHEST VALUE IS	0.04719	AT (	432192.99,	4249130.00,	186.80,	326.50,	0.00)	DC				
		10TH HIGHEST VALUE IS	0.04645	AT (	432231.66,	4249118.67,	186.90,	326.50,	0.00)	DC				
EODFLARF		1ST HIGHEST VALUE IS	0.03037	AT (	431386.12,	4248944.69,	182.00,	328.25,	0.00)	DC				
		2ND HIGHEST VALUE IS	0.02251	AT (	432114.34,	4249063.48,	183.18,	326.46,	0.00)	DC				
		3RD HIGHEST VALUE IS	0.01661	AT (	432292.99,	4249080.00,	186.20,	326.50,	0.00)	DC				
		4TH HIGHEST VALUE IS	0.01650	AT (	432142.99,	4249130.00,	186.10,	326.50,	0.00)	DC				
		5TH HIGHEST VALUE IS	0.01590	AT (	432342.99,	4249080.00,	186.20,	326.50,	0.00)	DC				
		6TH HIGHEST VALUE IS	0.01563	AT (	432379.22,	4249066.23,	186.60,	326.50,	0.00)	DC				
		7TH HIGHEST VALUE IS	0.01544	AT (	431631.66,	4249218.67,	185.70,	328.30,	0.00)	DC				
		8TH HIGHEST VALUE IS	0.01532	AT (	432392.99,	4249080.00,	194.20,	326.50,	0.00)	DC				
		9TH HIGHEST VALUE IS	0.01468	AT (	431731.66,	4249218.67,	185.40,	328.30,	0.00)	DC				
		10TH HIGHEST VALUE IS	0.01455	AT (	431642.99,	4249230.00,	185.50,	328.30,	0.00)	DC				
EODR25F		1ST HIGHEST VALUE IS	0.06002	AT (	431992.99,	4249180.00,	186.60,	326.50,	0.00)	DC				
		2ND HIGHEST VALUE IS	0.03671	AT (	431831.66,	4249218.67,	186.20,	328.30,	0.00)	DC				
		3RD HIGHEST VALUE IS	0.03466	AT (	431892.99,	4249230.00,	187.60,	326.50,	0.00)	DC				
		4TH HIGHEST VALUE IS	0.03279	AT (	431842.99,	4249230.00,	186.80,	328.30,	0.00)	DC				
		5TH HIGHEST VALUE IS	0.03090	AT (	432042.99,	4249180.00,	186.60,	326.50,	0.00)	DC				
		6TH HIGHEST VALUE IS	0.02842	AT (	431931.66,	4249218.67,	187.70,	326.50,	0.00)	DC				
		7TH HIGHEST VALUE IS	0.02134	AT (	431942.99,	4249230.00,	187.60,	326.50,	0.00)	DC				
		8TH HIGHEST VALUE IS	0.02119	AT (	432031.66,	4249218.67,	190.90,	326.50,	0.00)	DC				
		9TH HIGHEST VALUE IS	0.01889	AT (	431792.99,	4249230.00,	186.20,	328.30,	0.00)	DC				
		10TH HIGHEST VALUE IS	0.01680	AT (	432092.99,	4249180.00,	187.60,	326.50,	0.00)	DC				
EODFUGI		1ST HIGHEST VALUE IS	0.48137	AT (	431386.12,	4248944.69,	182.00,	328.25,	0.00)	DC				
		2ND HIGHEST VALUE IS	0.27245	AT (	432114.34,	4249063.48,	183.18,	326.46,	0.00)	DC				
		3RD HIGHEST VALUE IS	0.21250	AT (	432392.99,	4249030.00,	186.80,	326.50,	0.00)	DC				
		4TH HIGHEST VALUE IS	0.20375	AT (	432203.87,	4249110.67,	186.90,	326.50,	0.00)	DC				
		5TH HIGHEST VALUE IS	0.20346	AT (	432442.99,	4249030.00,	188.60,	326.50,	0.00)	DC				
		6TH HIGHEST VALUE IS	0.19701	AT (	432292.99,	4249080.00,	186.20,	326.50,	0.00)	DC				
		7TH HIGHEST VALUE IS	0.19664	AT (	432142.99,	4249130.00,	186.10,	326.50,	0.00)	DC				
		8TH HIGHEST VALUE IS	0.19659	AT (	432431.66,	4249018.67,	187.40,	326.50,	0.00)	DC				
		9TH HIGHEST VALUE IS	0.19584	AT (	432379.22,	4249066.23,	186.60,	326.50,	0.00)	DC				
		10TH HIGHEST VALUE IS	0.19439	AT (	432192.99,	4249130.00,	186.80,	326.50,	0.00)	DC				



*** AERMOD - VERSION 22112 ***			*** Ethylene oxide - Institute						***			08/23/22	
*** AERMET - VERSION 22112 ***			*** Ethylene Oxide Distribution AND Polyox Processes						***			11:17:26	
*** MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*												PAGE 6	
*** THE SUMMARY OF MAXIMUM PERIOD (26 HRS) RESULTS ***													
** CONC OF OTHER IN MICROGRAMS/M**3 **													
GROUP ID	AVERAGE CONC		RECEPTOR (XR, YR, ZELEV, ZHLL, ZFLAG)						OF TYPE	NETWORK GRID-ID			
EODIST	1ST HIGHEST VALUE IS	0.48153 AT (	431386.12,	4248944.69,	182.00,	328.25,	0.00)	DC					
	2ND HIGHEST VALUE IS	0.27306 AT (	432114.34,	4249063.48,	183.18,	326.46,	0.00)	DC					
	3RD HIGHEST VALUE IS	0.21376 AT (	432392.99,	4249030.00,	186.80,	326.50,	0.00)	DC					
	4TH HIGHEST VALUE IS	0.20485 AT (	432442.99,	4249030.00,	188.60,	326.50,	0.00)	DC					
	5TH HIGHEST VALUE IS	0.20422 AT (	432203.87,	4249110.67,	186.90,	326.50,	0.00)	DC					
	6TH HIGHEST VALUE IS	0.19802 AT (	432431.66,	4249018.67,	187.40,	326.50,	0.00)	DC					
	7TH HIGHEST VALUE IS	0.19784 AT (	432292.99,	4249080.00,	186.20,	326.50,	0.00)	DC					
	8TH HIGHEST VALUE IS	0.19695 AT (	432379.22,	4249066.23,	186.60,	326.50,	0.00)	DC					
	9TH HIGHEST VALUE IS	0.19689 AT (	432142.99,	4249130.00,	186.10,	326.50,	0.00)	DC					
	10TH HIGHEST VALUE IS	0.19474 AT (	432192.99,	4249130.00,	186.80,	326.50,	0.00)	DC					
221A	1ST HIGHEST VALUE IS	0.06013 AT (	432592.99,	4249180.00,	229.40,	325.70,	0.00)	DC					
	2ND HIGHEST VALUE IS	0.04671 AT (	432431.66,	4249218.67,	229.20,	325.60,	0.00)	DC					
	3RD HIGHEST VALUE IS	0.04567 AT (	432542.99,	4249180.00,	226.70,	325.70,	0.00)	DC					
	4TH HIGHEST VALUE IS	0.04307 AT (	433031.66,	4249318.67,	230.50,	325.70,	0.00)	DC					
	5TH HIGHEST VALUE IS	0.03955 AT (	433231.66,	4249318.67,	231.10,	325.70,	0.00)	DC					
	6TH HIGHEST VALUE IS	0.03900 AT (	432731.66,	4249318.67,	231.00,	325.70,	0.00)	DC					
	7TH HIGHEST VALUE IS	0.03816 AT (	432442.99,	4249230.00,	233.60,	322.40,	0.00)	DC					
	8TH HIGHEST VALUE IS	0.03537 AT (	432492.99,	4249180.00,	225.50,	325.70,	0.00)	DC					
	9TH HIGHEST VALUE IS	0.03199 AT (	433331.66,	4249218.67,	227.50,	325.70,	0.00)	DC					
	10TH HIGHEST VALUE IS	0.03194 AT (	433031.66,	4249218.67,	225.90,	325.70,	0.00)	DC					
230M	1ST HIGHEST VALUE IS	0.14580 AT (	432042.99,	4248030.00,	172.80,	314.60,	0.00)	DC					
	2ND HIGHEST VALUE IS	0.14288 AT (	432831.66,	4248318.67,	182.30,	314.60,	0.00)	DC					
	3RD HIGHEST VALUE IS	0.13420 AT (	432031.66,	4248018.67,	172.80,	314.60,	0.00)	DC					
	4TH HIGHEST VALUE IS	0.11430 AT (	432042.99,	4247980.00,	172.80,	314.60,	0.00)	DC					
	5TH HIGHEST VALUE IS	0.10490 AT (	431992.99,	4247930.00,	172.80,	314.60,	0.00)	DC					
	6TH HIGHEST VALUE IS	0.09155 AT (	431992.99,	4247880.00,	172.80,	314.60,	0.00)	DC					
	7TH HIGHEST VALUE IS	0.09123 AT (	432879.22,	4248316.23,	181.30,	314.60,	0.00)	DC					
	8TH HIGHEST VALUE IS	0.08991 AT (	432731.66,	4247818.67,	180.30,	314.60,	0.00)	DC					
	9TH HIGHEST VALUE IS	0.08931 AT (	432142.99,	4247880.00,	172.80,	314.60,	0.00)	DC					
	10TH HIGHEST VALUE IS	0.08915 AT (	432142.99,	4247930.00,	172.80,	314.60,	0.00)	DC					
230L	1ST HIGHEST VALUE IS	0.62965 AT (	432042.99,	4248030.00,	172.80,	314.60,	0.00)	DC					
	2ND HIGHEST VALUE IS	0.61776 AT (	432831.66,	4248318.67,	182.30,	314.60,	0.00)	DC					
	3RD HIGHEST VALUE IS	0.58211 AT (	432031.66,	4248018.67,	172.80,	314.60,	0.00)	DC					
	4TH HIGHEST VALUE IS	0.49893 AT (	432042.99,	4247980.00,	172.80,	314.60,	0.00)	DC					
	5TH HIGHEST VALUE IS	0.45725 AT (	431992.99,	4247930.00,	172.80,	314.60,	0.00)	DC					
	6TH HIGHEST VALUE IS	0.43644 AT (	432879.22,	4248316.23,	181.30,	314.60,	0.00)	DC					
	7TH HIGHEST VALUE IS	0.40137 AT (	432592.99,	4247930.00,	181.10,	314.60,	0.00)	DC					
	8TH HIGHEST VALUE IS	0.40081 AT (	431992.99,	4247880.00,	172.80,	314.60,	0.00)	DC					
	9TH HIGHEST VALUE IS	0.39968 AT (	432731.66,	4247818.67,	180.30,	314.60,	0.00)	DC					
	10TH HIGHEST VALUE IS	0.39389 AT (	432731.66,	4248018.67,	181.90,	314.60,	0.00)	DC					



*** AERMOD - VERSION 22112 ***			*** Ethylene oxide - Institute							***			08/23/22
*** AERMET - VERSION 22112 ***			*** Ethylene Oxide Distribution AND Polyox Processes							***			11:17:26
*** MODELOPTS:			RegDFAULT	CONC	ELEV	NODRYDPLT	NOWETDPLT	RURAL	ADJ_U*				PAGE 7
*** THE SUMMARY OF MAXIMUM PERIOD (26 HRS) RESULTS ***													
			** CONC OF OTHER		IN MICROGRAMS/M**3								
GROUP ID			AVERAGE CONC		RECEPTOR (XR, YR, ZELEV, ZHLL, ZFLAG)					OF TYPE	NETWORK GRID-ID		
230K	1ST HIGHEST VALUE IS		0.13465	AT (	432042.99,	4248030.00,	172.80,	314.60,	0.00)	DC			
	2ND HIGHEST VALUE IS		0.12821	AT (	432831.66,	4248318.67,	182.30,	314.60,	0.00)	DC			
	3RD HIGHEST VALUE IS		0.12517	AT (	432031.66,	4248018.67,	172.80,	314.60,	0.00)	DC			
	4TH HIGHEST VALUE IS		0.11709	AT (	432042.99,	4247980.00,	172.80,	314.60,	0.00)	DC			
	5TH HIGHEST VALUE IS		0.11236	AT (	432092.99,	4248030.00,	174.50,	314.60,	0.00)	DC			
	6TH HIGHEST VALUE IS		0.10944	AT (	432592.99,	4247930.00,	181.10,	314.60,	0.00)	DC			
	7TH HIGHEST VALUE IS		0.09741	AT (	432731.66,	4247818.67,	180.30,	314.60,	0.00)	DC			
	8TH HIGHEST VALUE IS		0.09734	AT (	432131.66,	4248018.67,	175.10,	314.60,	0.00)	DC			
	9TH HIGHEST VALUE IS		0.09701	AT (	432879.22,	4248316.23,	181.30,	314.60,	0.00)	DC			
	10TH HIGHEST VALUE IS		0.09700	AT (	431992.99,	4247930.00,	172.80,	314.60,	0.00)	DC			
230O	1ST HIGHEST VALUE IS		0.00405	AT (	432092.99,	4248030.00,	174.50,	314.60,	0.00)	DC			
	2ND HIGHEST VALUE IS		0.00390	AT (	434379.22,	4247816.23,	211.90,	303.80,	0.00)	DC			
	3RD HIGHEST VALUE IS		0.00361	AT (	434629.22,	4247566.23,	211.00,	303.80,	0.00)	DC			
	4TH HIGHEST VALUE IS		0.00353	AT (	434531.66,	4247718.67,	210.70,	303.80,	0.00)	DC			
	5TH HIGHEST VALUE IS		0.00350	AT (	434703.87,	4247610.67,	212.00,	303.80,	0.00)	DC			
	6TH HIGHEST VALUE IS		0.00343	AT (	431892.99,	4248130.00,	180.70,	314.60,	0.00)	DC			
	7TH HIGHEST VALUE IS		0.00340	AT (	434431.66,	4247718.67,	214.40,	303.80,	0.00)	DC			
	8TH HIGHEST VALUE IS		0.00337	AT (	434431.66,	4247818.67,	210.30,	303.80,	0.00)	DC			
	9TH HIGHEST VALUE IS		0.00333	AT (	434119.85,	4248806.86,	212.30,	316.80,	0.00)	DC			
	10TH HIGHEST VALUE IS		0.00311	AT (	433703.87,	4248610.67,	209.50,	306.60,	0.00)	DC			
230HH	1ST HIGHEST VALUE IS		0.00000	AT (	0.00,	0.00,	0.00,	0.00,	0.00)				
	2ND HIGHEST VALUE IS		0.00000	AT (	0.00,	0.00,	0.00,	0.00,	0.00)				
	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)				
PPOINT	1ST HIGHEST VALUE IS		0.91333	AT (	432042.99,	4248030.00,	172.80,	314.60,	0.00)	DC			
	2ND HIGHEST VALUE IS		0.89193	AT (	432831.66,	4248318.67,	182.30,	314.60,	0.00)	DC			
	3RD HIGHEST VALUE IS		0.84435	AT (	432031.66,	4248018.67,	172.80,	314.60,	0.00)	DC			
	4TH HIGHEST VALUE IS		0.73354	AT (	432042.99,	4247980.00,	172.80,	314.60,	0.00)	DC			
	5TH HIGHEST VALUE IS		0.66098	AT (	431992.99,	4247930.00,	172.80,	314.60,	0.00)	DC			
	6TH HIGHEST VALUE IS		0.62765	AT (	432879.22,	4248316.23,	181.30,	314.60,	0.00)	DC			
	7TH HIGHEST VALUE IS		0.60159	AT (	432592.99,	4247930.00,	181.10,	314.60,	0.00)	DC			
	8TH HIGHEST VALUE IS		0.58978	AT (	432731.66,	4247818.67,	180.30,	314.60,	0.00)	DC			
	9TH HIGHEST VALUE IS		0.58094	AT (	431992.99,	4247880.00,	172.80,	314.60,	0.00)	DC			
	10TH HIGHEST VALUE IS		0.56857	AT (	432731.66,	4248018.67,	181.90,	314.60,	0.00)	DC			



*** AERMOD - VERSION 22112 ***			*** Ethylene oxide - Institute						***			08/23/22	
*** AERMET - VERSION 22112 ***			*** Ethylene Oxide Distribution AND Polyox Processes						***			11:17:26	
*** MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*												PAGE 8	
*** THE SUMMARY OF MAXIMUM PERIOD (26 HRS) RESULTS ***													
			** CONC OF OTHER		IN MICROGRAMS/M**3								
GROUP ID			AVERAGE CONC		RECEPTOR (XR, YR, ZELEV, ZHLL, ZFLAG)						OF TYPE	NETWORK GRID-ID	

POLYVOL1		1ST HIGHEST VALUE IS	0.04049	AT (	432583.00,	4248215.06,	181.73,	314.57,	0.00)	DC			
		2ND HIGHEST VALUE IS	0.03676	AT (	432092.99,	4248030.00,	174.50,	314.60,	0.00)	DC			
		3RD HIGHEST VALUE IS	0.03532	AT (	432131.66,	4248018.67,	175.10,	314.60,	0.00)	DC			
		4TH HIGHEST VALUE IS	0.03432	AT (	432831.66,	4248518.67,	181.80,	325.70,	0.00)	DC			
		5TH HIGHEST VALUE IS	0.03198	AT (	432831.66,	4248318.67,	182.30,	314.60,	0.00)	DC			
		6TH HIGHEST VALUE IS	0.03050	AT (	432042.99,	4248030.00,	172.80,	314.60,	0.00)	DC			
		7TH HIGHEST VALUE IS	0.03011	AT (	432092.99,	4247980.00,	172.80,	314.60,	0.00)	DC			
		8TH HIGHEST VALUE IS	0.02994	AT (	431998.21,	4248084.26,	180.40,	314.57,	0.00)	DC			
		9TH HIGHEST VALUE IS	0.02899	AT (	432879.22,	4248316.23,	181.30,	314.60,	0.00)	DC			
		10TH HIGHEST VALUE IS	0.02874	AT (	432142.99,	4247980.00,	172.80,	314.60,	0.00)	DC			
PBL8389		1ST HIGHEST VALUE IS	0.00395	AT (	432583.00,	4248215.06,	181.73,	314.57,	0.00)	DC			
		2ND HIGHEST VALUE IS	0.00317	AT (	432831.66,	4248318.67,	182.30,	314.60,	0.00)	DC			
		3RD HIGHEST VALUE IS	0.00302	AT (	433331.66,	4248718.67,	202.10,	325.70,	0.00)	DC			
		4TH HIGHEST VALUE IS	0.00295	AT (	432879.22,	4248316.23,	181.30,	314.60,	0.00)	DC			
		5TH HIGHEST VALUE IS	0.00294	AT (	432831.66,	4248518.67,	181.80,	325.70,	0.00)	DC			
		6TH HIGHEST VALUE IS	0.00278	AT (	432879.22,	4248566.23,	182.50,	325.70,	0.00)	DC			
		7TH HIGHEST VALUE IS	0.00277	AT (	432931.66,	4248318.67,	182.10,	314.60,	0.00)	DC			
		8TH HIGHEST VALUE IS	0.00272	AT (	433531.66,	4248618.67,	202.00,	306.60,	0.00)	DC			
		9TH HIGHEST VALUE IS	0.00266	AT (	433331.66,	4248618.67,	198.00,	325.70,	0.00)	DC			
		10TH HIGHEST VALUE IS	0.00258	AT (	433431.66,	4248618.67,	198.90,	306.40,	0.00)	DC			
PFUGIT		1ST HIGHEST VALUE IS	0.04445	AT (	432583.00,	4248215.06,	181.73,	314.57,	0.00)	DC			
		2ND HIGHEST VALUE IS	0.03871	AT (	432092.99,	4248030.00,	174.50,	314.60,	0.00)	DC			
		3RD HIGHEST VALUE IS	0.03736	AT (	432131.66,	4248018.67,	175.10,	314.60,	0.00)	DC			
		4TH HIGHEST VALUE IS	0.03726	AT (	432831.66,	4248518.67,	181.80,	325.70,	0.00)	DC			
		5TH HIGHEST VALUE IS	0.03515	AT (	432831.66,	4248318.67,	182.30,	314.60,	0.00)	DC			
		6TH HIGHEST VALUE IS	0.03209	AT (	432092.99,	4247980.00,	172.80,	314.60,	0.00)	DC			
		7TH HIGHEST VALUE IS	0.03202	AT (	432042.99,	4248030.00,	172.80,	314.60,	0.00)	DC			
		8TH HIGHEST VALUE IS	0.03194	AT (	432879.22,	4248316.23,	181.30,	314.60,	0.00)	DC			
		9TH HIGHEST VALUE IS	0.03129	AT (	431998.21,	4248084.26,	180.40,	314.57,	0.00)	DC			
		10TH HIGHEST VALUE IS	0.03093	AT (	432931.66,	4248518.67,	183.30,	325.70,	0.00)	DC			
POLYOX		1ST HIGHEST VALUE IS	0.94535	AT (	432042.99,	4248030.00,	172.80,	314.60,	0.00)	DC			
		2ND HIGHEST VALUE IS	0.92708	AT (	432831.66,	4248318.67,	182.30,	314.60,	0.00)	DC			
		3RD HIGHEST VALUE IS	0.87397	AT (	432031.66,	4248018.67,	172.80,	314.60,	0.00)	DC			
		4TH HIGHEST VALUE IS	0.76234	AT (	432042.99,	4247980.00,	172.80,	314.60,	0.00)	DC			
		5TH HIGHEST VALUE IS	0.68246	AT (	431992.99,	4247930.00,	172.80,	314.60,	0.00)	DC			
		6TH HIGHEST VALUE IS	0.65959	AT (	432879.22,	4248316.23,	181.30,	314.60,	0.00)	DC			
		7TH HIGHEST VALUE IS	0.61842	AT (	432592.99,	4247930.00,	181.10,	314.60,	0.00)	DC			
		8TH HIGHEST VALUE IS	0.60240	AT (	432731.66,	4247818.67,	180.30,	314.60,	0.00)	DC			
		9TH HIGHEST VALUE IS	0.60107	AT (	431992.99,	4247880.00,	172.80,	314.60,	0.00)	DC			
		10TH HIGHEST VALUE IS	0.59459	AT (	432931.66,	4248318.67,	182.10,	314.60,	0.00)	DC			



*** AERMOD - VERSION 22112 *** *** Ethylene oxide - Institute *** 08/23/22
*** AERMET - VERSION 22112 *** *** Ethylene Oxide Distribution AND Polyox Processes *** 11:17:26
PAGE 9

*** MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

*** THE SUMMARY OF MAXIMUM PERIOD (26 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	0.98214	AT (	432831.66, 4248318.67, 182.30, 314.60, 0.00)	DC	
	2ND HIGHEST VALUE IS	0.97722	AT (	432042.99, 4248030.00, 172.80, 314.60, 0.00)	DC	
	3RD HIGHEST VALUE IS	0.90550	AT (	432031.66, 4248018.67, 172.80, 314.60, 0.00)	DC	
	4TH HIGHEST VALUE IS	0.79192	AT (	432042.99, 4247980.00, 172.80, 314.60, 0.00)	DC	
	5TH HIGHEST VALUE IS	0.71616	AT (	432879.22, 4248316.23, 181.30, 314.60, 0.00)	DC	
	6TH HIGHEST VALUE IS	0.71092	AT (	431992.99, 4247930.00, 172.80, 314.60, 0.00)	DC	
	7TH HIGHEST VALUE IS	0.65714	AT (	432592.99, 4247930.00, 181.10, 314.60, 0.00)	DC	
	8TH HIGHEST VALUE IS	0.65266	AT (	432931.66, 4248318.67, 182.10, 314.60, 0.00)	DC	
	9TH HIGHEST VALUE IS	0.63583	AT (	432731.66, 4247818.67, 180.30, 314.60, 0.00)	DC	
	10TH HIGHEST VALUE IS	0.62769	AT (	431992.99, 4247880.00, 172.80, 314.60, 0.00)	DC	

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



*** AERMOD - VERSION 22112 *** *** Ethylene oxide - Institute
*** AERMET - VERSION 22112 *** *** Ethylene Oxide Distribution AND Polyox Processes

*** 08/23/22
*** 11:17:26
*** PAGE 10

*** MODELOPTS: RegDFAULT 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 15 Warning Message(s)
A Total of 1 Informational Message(s)
A Total of 26 Hours Were Processed
A Total of 0 Calm Hours Identified
A Total of 1 Missing Hours Identified (3.85 Percent)

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

***** WARNING MESSAGES *****
SO W320 19 PPARM: Input Parameter May Be Out-of-Range for Parameter VS
SO W320 21 PPARM: Input Parameter May Be Out-of-Range for Parameter QS
ME W187 29 MEOPEN: ADJ_U* Option For Stable Low Winds used in AERMET
OU W565 32 PERPLT: Possible Conflict With Dynamically Allocated FUNIT PLOTFILE
OU W565 44 PERPLT: Possible Conflict With Dynamically Allocated FUNIT PLOTFILE
OU W565 45 PERPLT: Possible Conflict With Dynamically Allocated FUNIT PLOTFILE
OU W565 46 PERPLT: Possible Conflict With Dynamically Allocated FUNIT PLOTFILE
OU W565 47 PERPLT: Possible Conflict With Dynamically Allocated FUNIT PLOTFILE
OU W565 48 PERPLT: Possible Conflict With Dynamically Allocated FUNIT PLOTFILE
OU W565 49 PERPLT: Possible Conflict With Dynamically Allocated FUNIT PLOTFILE
OU W565 50 PERPLT: Possible Conflict With Dynamically Allocated FUNIT PLOTFILE
OU W565 51 PERPLT: Possible Conflict With Dynamically Allocated FUNIT PLOTFILE
OU W565 52 PERPLT: Possible Conflict With Dynamically Allocated FUNIT PLOTFILE
OU W565 53 PERPLT: Possible Conflict With Dynamically Allocated FUNIT PLOTFILE
OU W565 54 PERPLT: Possible Conflict With Dynamically Allocated FUNIT PLOTFILE



January Monitoring Event AERMOD Summary File: South Charleston

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*** AERMOD - VERSION 22112 *** *** Ethylene oxide - South Charleston, WV Jan 25-26, 2022 Monitoring Eve *** 08/23/22
*** AERMET - VERSION 22112 *** *** Oxide Adducts; Triton; Covestro; Chemical Mixing *** 11:49:39
*** MODEL_OPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U* *** 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.
* Option for Capped & Horiz Stacks Selected With:
  0 Capped Stack(s); and 3 Horizontal Stack(s)
* ADJ_U* - Use ADJ_U* option for SBL in AERMET
* Model Assumes No FLAGPOLE Receptor Heights.
* The User Specified a Pollutant Type of: OTHER

**Model Calculates PERIOD Averages Only

**This Run Includes: 119 Source(s); 33 Source Group(s); and 15537 Receptor(s)

with: 102 POINT(s), including 3 POINTHOR(s)
      0 POINTCAP(s) and
and: 15 VOLUME source(s)
and: 1 AREA type source(s)
and: 1 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: 22112

**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)

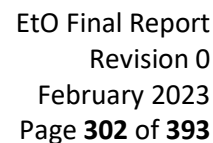
**NOTE: The following flags May Appear following CONC Values: c for Calm Hours
                                                m for Missing Hours
                                                b for Both Calm and Missing Hours

**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 180.24 ; 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 = 20.5 MB of RAM.

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

**Detailed Error/Message File: error.fil
**File for Summary of Results: Summary.sum
```


[illegible]

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,



*** AERMOD - VERSION 22112 *** *** Ethylene oxide - South Charleston, WV Jan 25-26, 2022 Monitoring Eve ***
*** AERMET - VERSION 22112 *** *** Oxide Adducts; Triton; Covestro; Chemical Mixing ***
08/23/22
11:49:39
PAGE 3

*** MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*
*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file: SC_Jan_22.SFC Met Version: 22112
Profile file: SC_Jan_22.PFL
Surface format: FREE
Profile format: FREE
Surface station no.: 13866 Upper air station no.: 53829
Name: INSTITUTE/SOUTH CHARLESTON SITE, WV Name: UNKNOWN
Year: 2022 Year: 2022

First 24 hours of scalar data																							
YR	MO	DY	JDY	HR	HO	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O	LEN	Z0	BOWEN	ALBEDO	REF	WS	WD	HT	REF	TA	HT	
22	01	25	25	01	-5.9	0.094	-9.000	-9.000	-999.	69.	12.1	0.01	0.45	1.00	1.65	275.	7.9	279.3	7.9				
22	01	25	25	02	-3.2	0.069	-9.000	-9.000	-999.	44.	9.0	0.01	0.45	1.00	1.21	271.	7.9	278.8	7.9				
22	01	25	25	03	-16.1	0.163	-9.000	-9.000	-999.	159.	29.4	0.01	0.45	1.00	2.77	285.	7.9	278.4	7.9				
22	01	25	25	04	-7.4	0.105	-9.000	-9.000	-999.	82.	13.6	0.01	0.45	1.00	1.83	270.	7.9	277.9	7.9				
22	01	25	25	05	-6.1	0.094	-9.000	-9.000	-999.	69.	11.8	0.01	0.45	1.00	1.74	266.	7.9	277.8	7.9				
22	01	25	25	06	-15.9	0.165	-9.000	-9.000	-999.	161.	30.1	0.07	0.45	1.00	2.10	325.	7.9	276.4	7.9				
22	01	25	25	07	-3.1	0.074	-9.000	-9.000	-999.	52.	11.3	0.08	0.45	1.00	0.89	333.	7.9	274.3	7.9				
22	01	25	25	08	-3.2	0.074	-9.000	-9.000	-999.	48.	11.0	0.07	0.45	1.00	0.94	314.	7.9	273.4	7.9				
22	01	25	25	09	-3.6	0.085	-9.000	-9.000	-999.	60.	15.1	0.07	0.45	0.43	1.12	325.	7.9	273.1	7.9				
22	01	25	25	10	0.1	0.142	0.023	0.005	4.	129.	2524.8	0.08	0.45	0.28	1.61	339.	7.9	273.1	7.9				
22	01	25	25	11	0.1	0.125	0.026	0.005	6.	106.	1718.4	0.07	0.45	0.22	1.48	306.	7.9	272.1	7.9				
22	01	25	25	12	0.1	0.094	0.027	0.007	7.	69.	732.8	0.01	0.45	0.20	1.48	294.	7.9	272.1	7.9				
22	01	25	25	13	0.1	0.095	0.029	0.007	8.	70.	-754.1	0.07	0.45	0.19	1.12	329.	7.9	273.1	7.9				
22	01	25	25	14	0.1	0.098	0.030	0.007	9.	74.	-837.2	0.07	0.45	0.20	1.16	309.	7.9	273.1	7.9				
22	01	25	25	15	0.1	0.113	0.031	0.006	10.	92.	-1280.7	0.07	0.45	0.21	1.34	303.	7.9	273.1	7.9				
22	01	25	25	16	0.1	0.068	0.032	0.010	11.	43.	-281.4	0.08	0.45	0.25	0.76	342.	7.9	273.1	7.9				
22	01	25	25	17	-1.5	0.058	-9.000	-9.000	-999.	34.	12.1	0.01	0.45	0.37	1.03	281.	7.9	273.1	7.9				
22	01	25	25	18	-1.4	0.059	-9.000	-9.000	-999.	34.	13.0	0.08	0.45	0.72	0.49	356.	7.9	273.1	7.9				
22	01	25	25	19	-0.7	0.054	-9.000	-9.000	-999.	30.	18.8	0.08	0.45	1.00	0.28	348.	7.9	272.1	7.9				
22	01	25	25	20	-1.0	0.055	-9.000	-9.000	-999.	31.	14.6	0.07	0.45	1.00	0.40	306.	7.9	272.1	7.9				
22	01	25	25	21	-2.7	0.069	-9.000	-9.000	-999.	44.	10.7	0.07	0.45	1.00	0.85	312.	7.9	271.1	7.9				
22	01	25	25	22	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.01	0.45	1.00	0.36	274.	7.9	270.1	7.9				
22	01	25	25	23	-1.8	0.055	-9.000	-9.000	-999.	31.	8.0	0.01	0.45	1.00	0.85	264.	7.9	270.1	7.9				
22	01	25	25	24	-0.5	0.045	-9.000	-9.000	-999.	23.	15.0	0.01	0.45	1.00	0.31	268.	7.9	270.1	7.9				

First hour of profile data
YR MO DY HR HEIGHT F WDIR WSPD AMB_TMP sigmaA sigmaW sigmaV
22 01 25 01 7.9 1 275. 1.65 279.4 99.0 -99.00 -99.00

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



*** AERMOD - VERSION 22112 *** *** Ethylene oxide - South Charleston, WV Jan 25-26, 2022 Monitoring Eve *** 08/23/22
*** AERMET - VERSION 22112 *** *** Oxide Adducts; Triton; Covestro; Chemical Mixing *** 11:49:39
*** MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U* PAGE 4

*** THE SUMMARY OF MAXIMUM PERIOD (26 HRS) RESULTS ***

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

GROUP ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
CHMIX	1ST HIGHEST VALUE IS 0.06556 AT (440277.01, 4246783.81, 183.80, 284.10, 0.00)	DC		
	2ND HIGHEST VALUE IS 0.03169 AT (440277.01, 4246733.81, 183.70, 284.10, 0.00)	DC		
	3RD HIGHEST VALUE IS 0.02931 AT (440315.68, 4246722.48, 184.10, 284.10, 0.00)	DC		
	4TH HIGHEST VALUE IS 0.02730 AT (440377.01, 4246733.81, 183.70, 284.10, 0.00)	DC		
	5TH HIGHEST VALUE IS 0.02420 AT (440327.01, 4246733.81, 184.40, 284.10, 0.00)	DC		
	6TH HIGHEST VALUE IS 0.02346 AT (440415.68, 4246722.48, 183.30, 284.10, 0.00)	DC		
	7TH HIGHEST VALUE IS 0.02238 AT (440327.01, 4246683.81, 183.20, 284.10, 0.00)	DC		
	8TH HIGHEST VALUE IS 0.02101 AT (440277.01, 4246683.81, 182.10, 284.10, 0.00)	DC		
	9TH HIGHEST VALUE IS 0.01774 AT (440427.01, 4246683.81, 183.10, 284.10, 0.00)	DC		
	10TH HIGHEST VALUE IS 0.01552 AT (440327.01, 4246633.81, 184.80, 322.90, 0.00)	DC		
1RX	1ST HIGHEST VALUE IS 0.00000 AT (0.00, 0.00, 0.00, 0.00, 0.00)			
	2ND HIGHEST VALUE IS 0.00000 AT (0.00, 0.00, 0.00, 0.00, 0.00)			
	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)			
2RX	1ST HIGHEST VALUE IS 0.00000 AT (0.00, 0.00, 0.00, 0.00, 0.00)			
	2ND HIGHEST VALUE IS 0.00000 AT (0.00, 0.00, 0.00, 0.00, 0.00)			
	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)			
3RX	1ST HIGHEST VALUE IS 0.00000 AT (0.00, 0.00, 0.00, 0.00, 0.00)			
	2ND HIGHEST VALUE IS 0.00000 AT (0.00, 0.00, 0.00, 0.00, 0.00)			
	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)			



*** AERMOD - VERSION 22112 *** *** Ethylene oxide - South Charleston, WV Jan 25-26, 2022 Monitoring Eve *** 08/23/22
*** AERMET - VERSION 22112 *** *** Oxide Adducts; Triton; Covestro; Chemical Mixing *** 11:49:39
*** MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U* PAGE 5

*** THE SUMMARY OF MAXIMUM PERIOD (26 HRS) RESULTS ***

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

GROUP ID		AVERAGE CONC		RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
789RX	1ST HIGHEST VALUE IS	0.04809 AT (	440327.01,	4246933.81,	173.10,	183.90, 0.00) DC
	2ND HIGHEST VALUE IS	0.04793 AT (	440315.68,	4246922.48,	173.10,	183.60, 0.00) DC
	3RD HIGHEST VALUE IS	0.02936 AT (	440277.01,	4246933.81,	173.10,	183.90, 0.00) DC
	4TH HIGHEST VALUE IS	0.02466 AT (	440327.01,	4246733.81,	184.40,	284.10, 0.00) DC
	5TH HIGHEST VALUE IS	0.02295 AT (	440377.01,	4246733.81,	183.70,	284.10, 0.00) DC
	6TH HIGHEST VALUE IS	0.02246 AT (	440315.68,	4246722.48,	184.10,	284.10, 0.00) DC
	7TH HIGHEST VALUE IS	0.02243 AT (	440615.68,	4246822.48,	173.10,	302.70, 0.00) DC
	8TH HIGHEST VALUE IS	0.02216 AT (	440619.85,	4246806.86,	173.10,	310.70, 0.00) DC
	9TH HIGHEST VALUE IS	0.02095 AT (	440327.01,	4246683.81,	183.20,	284.10, 0.00) DC
	10TH HIGHEST VALUE IS	0.02040 AT (	440627.01,	4246783.81,	173.10,	311.20, 0.00) DC
CPOINT	1ST HIGHEST VALUE IS	0.04809 AT (	440327.01,	4246933.81,	173.10,	183.90, 0.00) DC
	2ND HIGHEST VALUE IS	0.04793 AT (	440315.68,	4246922.48,	173.10,	183.60, 0.00) DC
	3RD HIGHEST VALUE IS	0.02936 AT (	440277.01,	4246933.81,	173.10,	183.90, 0.00) DC
	4TH HIGHEST VALUE IS	0.02466 AT (	440327.01,	4246733.81,	184.40,	284.10, 0.00) DC
	5TH HIGHEST VALUE IS	0.02295 AT (	440377.01,	4246733.81,	183.70,	284.10, 0.00) DC
	6TH HIGHEST VALUE IS	0.02246 AT (	440315.68,	4246722.48,	184.10,	284.10, 0.00) DC
	7TH HIGHEST VALUE IS	0.02243 AT (	440615.68,	4246822.48,	173.10,	302.70, 0.00) DC
	8TH HIGHEST VALUE IS	0.02216 AT (	440619.85,	4246806.86,	173.10,	310.70, 0.00) DC
	9TH HIGHEST VALUE IS	0.02095 AT (	440327.01,	4246683.81,	183.20,	284.10, 0.00) DC
	10TH HIGHEST VALUE IS	0.02040 AT (	440627.01,	4246783.81,	173.10,	311.20, 0.00) DC
CE003F	1ST HIGHEST VALUE IS	0.05291 AT (	439977.01,	4247083.81,	173.10,	184.70, 0.00) DC
	2ND HIGHEST VALUE IS	0.04155 AT (	440015.68,	4247022.48,	173.10,	184.90, 0.00) DC
	3RD HIGHEST VALUE IS	0.04123 AT (	440027.01,	4247033.81,	173.10,	184.70, 0.00) DC
	4TH HIGHEST VALUE IS	0.03012 AT (	440077.01,	4247033.81,	173.10,	184.70, 0.00) DC
	5TH HIGHEST VALUE IS	0.02842 AT (	439927.01,	4247083.81,	173.10,	185.00, 0.00) DC
	6TH HIGHEST VALUE IS	0.02631 AT (	440027.01,	4246833.81,	183.70,	183.70, 0.00) DC
	7TH HIGHEST VALUE IS	0.02600 AT (	440115.68,	4247022.48,	173.10,	184.10, 0.00) DC
	8TH HIGHEST VALUE IS	0.02472 AT (	439915.68,	4247122.48,	173.10,	184.60, 0.00) DC
	9TH HIGHEST VALUE IS	0.02458 AT (	440015.68,	4246822.48,	183.40,	183.40, 0.00) DC
	10TH HIGHEST VALUE IS	0.02407 AT (	440077.01,	4246783.81,	182.10,	284.10, 0.00) DC
CPIVF	1ST HIGHEST VALUE IS	0.13645 AT (	440327.01,	4246933.81,	173.10,	183.90, 0.00) DC
	2ND HIGHEST VALUE IS	0.11536 AT (	440315.68,	4246922.48,	173.10,	183.60, 0.00) DC
	3RD HIGHEST VALUE IS	0.07890 AT (	440277.01,	4246933.81,	173.10,	183.90, 0.00) DC
	4TH HIGHEST VALUE IS	0.06122 AT (	440377.01,	4246733.81,	183.70,	284.10, 0.00) DC
	5TH HIGHEST VALUE IS	0.05858 AT (	440415.68,	4246722.48,	183.30,	284.10, 0.00) DC
	6TH HIGHEST VALUE IS	0.05806 AT (	440227.01,	4246983.81,	173.10,	183.90, 0.00) DC
	7TH HIGHEST VALUE IS	0.05110 AT (	440427.01,	4246683.81,	183.10,	284.10, 0.00) DC
	8TH HIGHEST VALUE IS	0.05068 AT (	440327.01,	4246733.81,	184.40,	284.10, 0.00) DC
	9TH HIGHEST VALUE IS	0.04874 AT (	440377.01,	4246683.81,	183.40,	284.10, 0.00) DC
	10TH HIGHEST VALUE IS	0.04467 AT (	440315.68,	4246722.48,	184.10,	284.10, 0.00) DC



*** AERMOD - VERSION 22112 ***									
*** AERMET - VERSION 22112 ***									
*** Ethylene oxide - South Charleston, WV Jan 25-26, 2022 Monitoring Eve ***									
*** Oxide Adducts; Triton; Covestro; Chemical Mixing ***									
*** MODELOPTS: RegDFault CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*									
*** THE SUMMARY OF MAXIMUM PERIOD (26 HRS) RESULTS ***									
** CONC OF OTHER IN MICROGRAMS/M**3 **									
GROUP ID	AVERAGE CONC		RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)					OF TYPE	NETWORK GRID-ID
CFUGIT	1ST HIGHEST VALUE IS	0.15372 AT (	440327.01,	4246933.81,	173.10,	183.90,	0.00)	DC	
	2ND HIGHEST VALUE IS	0.13268 AT (	440315.68,	4246922.48,	173.10,	283.60,	0.00)	DC	
	3RD HIGHEST VALUE IS	0.09737 AT (	440277.01,	4246933.81,	173.10,	183.90,	0.00)	DC	
	4TH HIGHEST VALUE IS	0.08031 AT (	440227.01,	4246983.81,	173.10,	183.90,	0.00)	DC	
	5TH HIGHEST VALUE IS	0.07257 AT (	440377.01,	4246733.81,	183.70,	284.10,	0.00)	DC	
	6TH HIGHEST VALUE IS	0.07036 AT (	440415.68,	4246722.48,	183.30,	284.10,	0.00)	DC	
	7TH HIGHEST VALUE IS	0.06921 AT (	439977.01,	4247083.81,	173.10,	184.70,	0.00)	DC	
	8TH HIGHEST VALUE IS	0.06253 AT (	440177.01,	4246983.81,	173.10,	183.90,	0.00)	DC	
	9TH HIGHEST VALUE IS	0.06129 AT (	440027.01,	4247033.81,	173.10,	184.70,	0.00)	DC	
	10TH HIGHEST VALUE IS	0.06113 AT (	440427.01,	4246683.81,	183.10,	284.10,	0.00)	DC	
COVESTRO	1ST HIGHEST VALUE IS	0.20181 AT (	440327.01,	4246933.81,	173.10,	183.90,	0.00)	DC	
	2ND HIGHEST VALUE IS	0.18061 AT (	440315.68,	4246922.48,	173.10,	283.60,	0.00)	DC	
	3RD HIGHEST VALUE IS	0.12672 AT (	440277.01,	4246933.81,	173.10,	183.90,	0.00)	DC	
	4TH HIGHEST VALUE IS	0.09552 AT (	440377.01,	4246733.81,	183.70,	284.10,	0.00)	DC	
	5TH HIGHEST VALUE IS	0.09038 AT (	440415.68,	4246722.48,	183.30,	284.10,	0.00)	DC	
	6TH HIGHEST VALUE IS	0.08511 AT (	440327.01,	4246733.81,	184.40,	284.10,	0.00)	DC	
	7TH HIGHEST VALUE IS	0.08119 AT (	440227.01,	4246983.81,	173.10,	183.90,	0.00)	DC	
	8TH HIGHEST VALUE IS	0.07906 AT (	440427.01,	4246683.81,	183.10,	284.10,	0.00)	DC	
	9TH HIGHEST VALUE IS	0.07719 AT (	440377.01,	4246683.81,	183.40,	284.10,	0.00)	DC	
	10TH HIGHEST VALUE IS	0.07631 AT (	440315.68,	4246722.48,	184.10,	284.10,	0.00)	DC	
TE10813	1ST HIGHEST VALUE IS	0.01229 AT (	440227.01,	4246433.81,	204.60,	322.90,	0.00)	DC	
	2ND HIGHEST VALUE IS	0.01188 AT (	440215.68,	4246422.48,	204.20,	322.90,	0.00)	DC	
	3RD HIGHEST VALUE IS	0.01127 AT (	440227.01,	4246383.81,	204.60,	322.90,	0.00)	DC	
	4TH HIGHEST VALUE IS	0.01105 AT (	440277.01,	4246433.81,	207.40,	284.10,	0.00)	DC	
	5TH HIGHEST VALUE IS	0.01078 AT (	440213.24,	4246370.04,	204.20,	323.90,	0.00)	DC	
	6TH HIGHEST VALUE IS	0.01035 AT (	440177.01,	4246383.81,	208.40,	322.90,	0.00)	DC	
	7TH HIGHEST VALUE IS	0.01011 AT (	440227.01,	4246333.81,	208.90,	322.90,	0.00)	DC	
	8TH HIGHEST VALUE IS	0.00971 AT (	440277.01,	4246383.81,	209.10,	322.90,	0.00)	DC	
	9TH HIGHEST VALUE IS	0.00953 AT (	440177.01,	4246333.81,	204.70,	325.30,	0.00)	DC	
	10TH HIGHEST VALUE IS	0.00913 AT (	440277.01,	4246333.81,	209.30,	322.90,	0.00)	DC	
T_L_ALL	1ST HIGHEST VALUE IS	0.01285 AT (	440115.68,	4247022.48,	173.10,	184.10,	0.00)	DC	
	2ND HIGHEST VALUE IS	0.00978 AT (	440127.01,	4246983.81,	173.10,	184.10,	0.00)	DC	
	3RD HIGHEST VALUE IS	0.00904 AT (	440177.01,	4246983.81,	173.10,	183.90,	0.00)	DC	
	4TH HIGHEST VALUE IS	0.00831 AT (	440127.01,	4247283.81,	173.10,	272.80,	0.00)	DC	
	5TH HIGHEST VALUE IS	0.00812 AT (	440077.01,	4247033.81,	173.10,	184.70,	0.00)	DC	
	6TH HIGHEST VALUE IS	0.00743 AT (	440077.01,	4247283.81,	173.10,	272.80,	0.00)	DC	
	7TH HIGHEST VALUE IS	0.00739 AT (	440227.01,	4246983.81,	173.10,	183.90,	0.00)	DC	
	8TH HIGHEST VALUE IS	0.00697 AT (	440177.01,	4247283.81,	173.10,	272.80,	0.00)	DC	
	9TH HIGHEST VALUE IS	0.00609 AT (	440119.85,	4247306.86,	173.10,	272.80,	0.00)	DC	
	10TH HIGHEST VALUE IS	0.00589 AT (	440227.01,	4246933.81,	173.10,	183.90,	0.00)	DC	



*** AERMOD - VERSION 22112 *** *** Ethylene oxide - South Charleston, WV Jan 25-26, 2022 Monitoring Eve *** 08/23/22
*** AERMET - VERSION 22112 *** *** Oxide Adducts; Triton; Covestro; Chemical Mixing *** 11:49:39
*** MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U* PAGE 7

*** THE SUMMARY OF MAXIMUM PERIOD (26 HRS) RESULTS ***

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

GROUP ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
T_T_ALL	1ST HIGHEST VALUE IS 0.01575 AT (440177.01, 4246983.81, 173.10, 183.90, 0.00) DC			
	2ND HIGHEST VALUE IS 0.01475 AT (440115.68, 4247022.48, 173.10, 184.10, 0.00) DC			
	3RD HIGHEST VALUE IS 0.01330 AT (440127.01, 4246983.81, 173.10, 184.10, 0.00) DC			
	4TH HIGHEST VALUE IS 0.01174 AT (440227.01, 4246983.81, 173.10, 183.90, 0.00) DC			
	5TH HIGHEST VALUE IS 0.01133 AT (440227.01, 4246933.81, 173.10, 183.90, 0.00) DC			
	6TH HIGHEST VALUE IS 0.01084 AT (440227.01, 4246783.81, 183.70, 284.10, 0.00) DC			
	7TH HIGHEST VALUE IS 0.01003 AT (440177.01, 4246783.81, 183.60, 284.10, 0.00) DC			
	8TH HIGHEST VALUE IS 0.00964 AT (440227.01, 4246733.81, 183.00, 284.10, 0.00) DC			
	9TH HIGHEST VALUE IS 0.00937 AT (440277.01, 4246783.81, 183.80, 284.10, 0.00) DC			
	10TH HIGHEST VALUE IS 0.00917 AT (440215.68, 4246722.48, 181.80, 284.10, 0.00) DC			
T_POINT	1ST HIGHEST VALUE IS 0.02848 AT (440177.01, 4246983.81, 173.10, 183.90, 0.00) DC			
	2ND HIGHEST VALUE IS 0.02812 AT (440115.68, 4247022.48, 173.10, 184.10, 0.00) DC			
	3RD HIGHEST VALUE IS 0.02413 AT (440127.01, 4246983.81, 173.10, 184.10, 0.00) DC			
	4TH HIGHEST VALUE IS 0.02287 AT (440227.01, 4246983.81, 173.10, 183.90, 0.00) DC			
	5TH HIGHEST VALUE IS 0.02092 AT (440227.01, 4246933.81, 173.10, 183.90, 0.00) DC			
	6TH HIGHEST VALUE IS 0.01863 AT (440227.01, 4246783.81, 183.70, 284.10, 0.00) DC			
	7TH HIGHEST VALUE IS 0.01744 AT (440227.01, 4246433.81, 204.60, 322.90, 0.00) DC			
	8TH HIGHEST VALUE IS 0.01717 AT (440215.68, 4246422.48, 204.20, 322.90, 0.00) DC			
	9TH HIGHEST VALUE IS 0.01701 AT (440077.01, 4247033.81, 173.10, 184.70, 0.00) DC			
	10TH HIGHEST VALUE IS 0.01662 AT (440277.01, 4246783.81, 183.80, 284.10, 0.00) DC			
THF	1ST HIGHEST VALUE IS 0.01126 AT (440127.01, 4247283.81, 173.10, 272.80, 0.00) DC			
	2ND HIGHEST VALUE IS 0.00756 AT (440177.01, 4247283.81, 173.10, 272.80, 0.00) DC			
	3RD HIGHEST VALUE IS 0.00655 AT (440077.01, 4247283.81, 173.10, 272.80, 0.00) DC			
	4TH HIGHEST VALUE IS 0.00636 AT (440119.85, 4247306.86, 173.10, 272.80, 0.00) DC			
	5TH HIGHEST VALUE IS 0.00478 AT (440227.01, 4247283.81, 173.10, 272.80, 0.00) DC			
	6TH HIGHEST VALUE IS 0.00475 AT (440115.68, 4247322.48, 173.10, 305.60, 0.00) DC			
	7TH HIGHEST VALUE IS 0.00430 AT (440227.01, 4246983.81, 173.10, 183.90, 0.00) DC			
	8TH HIGHEST VALUE IS 0.00410 AT (440277.01, 4247283.81, 173.10, 272.80, 0.00) DC			
	9TH HIGHEST VALUE IS 0.00406 AT (440127.01, 4247333.81, 173.10, 305.60, 0.00) DC			
	10TH HIGHEST VALUE IS 0.00357 AT (440177.01, 4247333.81, 173.10, 272.80, 0.00) DC			
TRF	1ST HIGHEST VALUE IS 0.00961 AT (440177.01, 4246983.81, 173.10, 183.90, 0.00) DC			
	2ND HIGHEST VALUE IS 0.00785 AT (440227.01, 4246983.81, 173.10, 183.90, 0.00) DC			
	3RD HIGHEST VALUE IS 0.00715 AT (440227.01, 4246933.81, 173.10, 183.90, 0.00) DC			
	4TH HIGHEST VALUE IS 0.00631 AT (440115.68, 4247022.48, 173.10, 184.10, 0.00) DC			
	5TH HIGHEST VALUE IS 0.00617 AT (440127.01, 4246983.81, 173.10, 184.10, 0.00) DC			
	6TH HIGHEST VALUE IS 0.00548 AT (440227.01, 4246783.81, 183.70, 284.10, 0.00) DC			
	7TH HIGHEST VALUE IS 0.00518 AT (440277.01, 4246783.81, 183.80, 284.10, 0.00) DC			
	8TH HIGHEST VALUE IS 0.00504 AT (440277.01, 4246933.81, 173.10, 183.90, 0.00) DC			
	9TH HIGHEST VALUE IS 0.00471 AT (440277.01, 4246733.81, 183.70, 284.10, 0.00) DC			
	10TH HIGHEST VALUE IS 0.00471 AT (440177.01, 4246783.81, 183.60, 284.10, 0.00) DC			

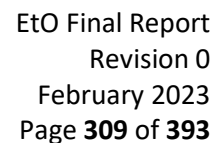


*** AERMOD - VERSION 22112 *** *** Ethylene oxide - South Charleston, WV Jan 25-26, 2022 Monitoring Eve *** 08/23/22
*** AERMET - VERSION 22112 *** *** Oxide Adducts; Triton; Covestro; Chemical Mixing *** 11:49:39
*** MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U* PAGE 8

*** THE SUMMARY OF MAXIMUM PERIOD (26 HRS) RESULTS ***

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

GROUP ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
TFNC	1ST HIGHEST VALUE IS 0.01614 AT (440077.01, 4247283.81, 173.10, 272.80, 0.00)	DC		
	2ND HIGHEST VALUE IS 0.01200 AT (440127.01, 4247283.81, 173.10, 272.80, 0.00)	DC		
	3RD HIGHEST VALUE IS 0.01065 AT (440015.68, 4247322.48, 173.10, 327.10, 0.00)	DC		
	4TH HIGHEST VALUE IS 0.00933 AT (439977.01, 4247333.81, 173.10, 327.10, 0.00)	DC		
	5TH HIGHEST VALUE IS 0.00851 AT (440177.01, 4247283.81, 173.10, 272.80, 0.00)	DC		
	6TH HIGHEST VALUE IS 0.00760 AT (440027.01, 4247333.81, 173.10, 327.10, 0.00)	DC		
	7TH HIGHEST VALUE IS 0.00617 AT (439915.68, 4247322.48, 173.10, 327.10, 0.00)	DC		
	8TH HIGHEST VALUE IS 0.00616 AT (439927.01, 4247333.81, 173.10, 327.10, 0.00)	DC		
	9TH HIGHEST VALUE IS 0.00611 AT (440077.01, 4247033.81, 173.10, 184.70, 0.00)	DC		
	10TH HIGHEST VALUE IS 0.00608 AT (440227.01, 4247283.81, 173.10, 272.80, 0.00)	DC		
T_FUGIT	1ST HIGHEST VALUE IS 0.02674 AT (440127.01, 4247283.81, 173.10, 272.80, 0.00)	DC		
	2ND HIGHEST VALUE IS 0.02605 AT (440077.01, 4247283.81, 173.10, 272.80, 0.00)	DC		
	3RD HIGHEST VALUE IS 0.01937 AT (440177.01, 4247283.81, 173.10, 272.80, 0.00)	DC		
	4TH HIGHEST VALUE IS 0.01543 AT (440119.85, 4247306.86, 173.10, 272.80, 0.00)	DC		
	5TH HIGHEST VALUE IS 0.01540 AT (440015.68, 4247322.48, 173.10, 327.10, 0.00)	DC		
	6TH HIGHEST VALUE IS 0.01465 AT (440177.01, 4246983.81, 173.10, 183.90, 0.00)	DC		
	7TH HIGHEST VALUE IS 0.01398 AT (440227.01, 4246983.81, 173.10, 183.90, 0.00)	DC		
	8TH HIGHEST VALUE IS 0.01368 AT (440227.01, 4247283.81, 173.10, 272.80, 0.00)	DC		
	9TH HIGHEST VALUE IS 0.01305 AT (440115.68, 4247322.48, 173.10, 305.60, 0.00)	DC		
	10TH HIGHEST VALUE IS 0.01301 AT (439977.01, 4247333.81, 173.10, 327.10, 0.00)	DC		
TRITON	1ST HIGHEST VALUE IS 0.04314 AT (440177.01, 4246983.81, 173.10, 183.90, 0.00)	DC		
	2ND HIGHEST VALUE IS 0.04182 AT (440127.01, 4247283.81, 173.10, 272.80, 0.00)	DC		
	3RD HIGHEST VALUE IS 0.04016 AT (440115.68, 4247022.48, 173.10, 184.10, 0.00)	DC		
	4TH HIGHEST VALUE IS 0.04008 AT (440077.01, 4247283.81, 173.10, 272.80, 0.00)	DC		
	5TH HIGHEST VALUE IS 0.03685 AT (440227.01, 4246983.81, 173.10, 183.90, 0.00)	DC		
	6TH HIGHEST VALUE IS 0.03542 AT (440127.01, 4246983.81, 173.10, 184.10, 0.00)	DC		
	7TH HIGHEST VALUE IS 0.03292 AT (440177.01, 4247283.81, 173.10, 272.80, 0.00)	DC		
	8TH HIGHEST VALUE IS 0.03260 AT (440227.01, 4246933.81, 173.10, 183.90, 0.00)	DC		
	9TH HIGHEST VALUE IS 0.02831 AT (440077.01, 4247033.81, 173.10, 184.70, 0.00)	DC		
	10TH HIGHEST VALUE IS 0.02789 AT (440119.85, 4247306.86, 173.10, 272.80, 0.00)	DC		
OA_E70XP	1ST HIGHEST VALUE IS 0.00000 AT (0.00, 0.00, 0.00, 0.00, 0.00)			
	2ND HIGHEST VALUE IS 0.00000 AT (0.00, 0.00, 0.00, 0.00, 0.00)			
	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)			



*** MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

*** THE SUMMARY OF MAXIMUM PERIOD (26 HRS) RESULTS ***

CONC OF OTHER IN MICROGRAMS/M³

GROUP ID				AVERAGE CONC		RECEPTOR	(XR, YR, ZELEV, ZHLL, ZFLAG)	OF TYPE	NETWORK GRID-ID
QA_TALLP	1ST HIGHEST VALUE	IS		0.01038	AT	(439827.01, 4246933.81,	186.10, 186.10,	0.00	DC
	2ND HIGHEST VALUE	IS		0.00800	AT	(439877.01, 4246933.81,	184.90, 184.90,	0.00	DC
	3RD HIGHEST VALUE	IS		0.00584	AT	(439827.01, 4246833.81,	183.30, 183.30,	0.00	DC
	4TH HIGHEST VALUE	IS		0.00545	AT	(439815.68, 4246822.48,	183.00, 183.00,	0.00	DC
	5TH HIGHEST VALUE	IS		0.00510	AT	(439777.01, 4246833.81,	183.00, 183.00,	0.00	DC
	6TH HIGHEST VALUE	IS		0.00503	AT	(439877.01, 4246833.81,	184.90, 184.90,	0.00	DC
	7TH HIGHEST VALUE	IS		0.00470	AT	(439827.01, 4246783.81,	182.60, 182.60,	0.00	DC
	8TH HIGHEST VALUE	IS		0.00467	AT	(439963.24, 4246870.04,	184.50, 184.50,	0.00	DC
	9TH HIGHEST VALUE	IS		0.00440	AT	(439677.01, 4246933.81,	184.20, 184.20,	0.00	DC
	10TH HIGHEST VALUE	IS		0.00440	AT	(440015.68, 4247022.48,	173.10, 184.90,	0.00	DC
QA_LALLP	1ST HIGHEST VALUE	IS		0.00082	AT	(439677.01, 4246933.81,	184.20, 184.20,	0.00	DC
	2ND HIGHEST VALUE	IS		0.00055	AT	(439713.24, 4246870.04,	183.20, 183.20,	0.00	DC
	3RD HIGHEST VALUE	IS		0.00048	AT	(439827.01, 4246933.81,	186.10, 186.10,	0.00	DC
	4TH HIGHEST VALUE	IS		0.00043	AT	(439727.01, 4246833.81,	183.20, 183.20,	0.00	DC
	5TH HIGHEST VALUE	IS		0.00039	AT	(439877.01, 4246933.81,	184.90, 184.90,	0.00	DC
	6TH HIGHEST VALUE	IS		0.00037	AT	(439715.68, 4246822.48,	183.10, 183.10,	0.00	DC
	7TH HIGHEST VALUE	IS		0.00035	AT	(439627.01, 4246933.81,	183.80, 183.80,	0.00	DC
	8TH HIGHEST VALUE	IS		0.00034	AT	(439777.01, 4246833.81,	183.00, 183.00,	0.00	DC
	9TH HIGHEST VALUE	IS		0.00032	AT	(439527.01, 4247133.81,	184.50, 184.50,	0.00	DC
	10TH HIGHEST VALUE	IS		0.00031	AT	(439777.01, 4246783.81,	182.10, 182.10,	0.00	DC
QA_POINT	1ST HIGHEST VALUE	IS		0.01086	AT	(439827.01, 4246933.81,	186.10, 186.10,	0.00	DC
	2ND HIGHEST VALUE	IS		0.00838	AT	(439877.01, 4246933.81,	184.90, 184.90,	0.00	DC
	3RD HIGHEST VALUE	IS		0.00604	AT	(439827.01, 4246833.81,	183.30, 183.30,	0.00	DC
	4TH HIGHEST VALUE	IS		0.00566	AT	(439815.68, 4246822.48,	183.00, 183.00,	0.00	DC
	5TH HIGHEST VALUE	IS		0.00544	AT	(439777.01, 4246833.81,	183.00, 183.00,	0.00	DC
	6TH HIGHEST VALUE	IS		0.00524	AT	(439877.01, 4246833.81,	183.10, 183.10,	0.00	DC
	7TH HIGHEST VALUE	IS		0.00523	AT	(439677.01, 4246933.81,	184.20, 184.20,	0.00	DC
	8TH HIGHEST VALUE	IS		0.00489	AT	(439827.01, 4246783.81,	182.60, 182.60,	0.00	DC
	9TH HIGHEST VALUE	IS		0.00487	AT	(439963.24, 4246870.04,	184.50, 184.50,	0.00	DC
	10TH HIGHEST VALUE	IS		0.00478	AT	(439713.24, 4246870.04,	183.20, 183.20,	0.00	DC
QAHR2F	1ST HIGHEST VALUE	IS		0.11306	AT	(439827.01, 4247133.81,	173.10, 185.00,	0.00	DC
	2ND HIGHEST VALUE	IS		0.07902	AT	(439727.01, 4247183.81,	173.10, 111.00,	0.00	DC
	3RD HIGHEST VALUE	IS		0.07310	AT	(439927.01, 4247083.81,	173.10, 185.00,	0.00	DC
	4TH HIGHEST VALUE	IS		0.07060	AT	(439877.01, 4247133.81,	173.10, 184.90,	0.00	DC
	5TH HIGHEST VALUE	IS		0.05893	AT	(439777.01, 4247183.81,	173.10, 184.40,	0.00	DC
	6TH HIGHEST VALUE	IS		0.05780	AT	(439827.01, 4246933.81,	186.10, 186.10,	0.00	DC
	7TH HIGHEST VALUE	IS		0.05557	AT	(439915.68, 4247122.48,	173.10, 184.60,	0.00	DC
	8TH HIGHEST VALUE	IS		0.05464	AT	(439977.01, 4247083.81,	173.10, 184.70,	0.00	DC
	9TH HIGHEST VALUE	IS		0.04125	AT	(440015.68, 4247022.48,	173.10, 184.90,	0.00	DC
	10TH HIGHEST VALUE	IS		0.04124	AT	(439715.68, 4247222.48,	173.10, 327.10,	0.00	DC



*** AERMOD - VERSION 22112 *** *** Ethylene oxide - South Charleston, WV Jan 25-26, 2022 Monitoring Eve *** 08/23/22
*** AERMET - VERSION 22112 *** *** Oxide Adducts; Triton; Covestro; Chemical Mixing *** 11:49:39
*** MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U* PAGE 10

*** THE SUMMARY OF MAXIMUM PERIOD (26 HRS) RESULTS ***

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

GROUP ID		AVERAGE CONC		RECEPTOR	(XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
OAR45F	1ST HIGHEST VALUE IS	0.05426	AT (	439677.01,	4246933.81,	184.20,	184.20, 0.00) DC
	2ND HIGHEST VALUE IS	0.05250	AT (	439777.01,	4246833.81,	183.00,	183.00, 0.00) DC
	3RD HIGHEST VALUE IS	0.05232	AT (	439713.24,	4246870.04,	183.20,	183.20, 0.00) DC
	4TH HIGHEST VALUE IS	0.05053	AT (	439877.01,	4246933.81,	184.90,	184.90, 0.00) DC
	5TH HIGHEST VALUE IS	0.04691	AT (	439727.01,	4246833.81,	183.20,	183.20, 0.00) DC
	6TH HIGHEST VALUE IS	0.04671	AT (	439777.01,	4247183.81,	173.10,	184.40, 0.00) DC
	7TH HIGHEST VALUE IS	0.04670	AT (	439827.01,	4246933.81,	186.10,	186.10, 0.00) DC
	8TH HIGHEST VALUE IS	0.04488	AT (	439927.01,	4247083.81,	173.10,	185.00, 0.00) DC
	9TH HIGHEST VALUE IS	0.04388	AT (	439815.68,	4246822.48,	183.00,	183.00, 0.00) DC
	10TH HIGHEST VALUE IS	0.04265	AT (	439777.01,	4246783.81,	182.10,	182.10, 0.00) DC
OAR6F	1ST HIGHEST VALUE IS	0.01540	AT (	439677.01,	4246933.81,	184.20,	184.20, 0.00) DC
	2ND HIGHEST VALUE IS	0.01465	AT (	439827.01,	4246933.81,	186.10,	186.10, 0.00) DC
	3RD HIGHEST VALUE IS	0.01406	AT (	439713.24,	4246870.04,	183.20,	183.20, 0.00) DC
	4TH HIGHEST VALUE IS	0.01292	AT (	439877.01,	4246933.81,	184.90,	184.90, 0.00) DC
	5TH HIGHEST VALUE IS	0.01275	AT (	439777.01,	4246833.81,	183.00,	183.00, 0.00) DC
	6TH HIGHEST VALUE IS	0.01221	AT (	439727.01,	4246833.81,	183.20,	183.20, 0.00) DC
	7TH HIGHEST VALUE IS	0.01052	AT (	439715.68,	4246822.48,	183.10,	183.10, 0.00) DC
	8TH HIGHEST VALUE IS	0.01033	AT (	439777.01,	4246783.81,	182.10,	182.10, 0.00) DC
	9TH HIGHEST VALUE IS	0.00976	AT (	439815.68,	4246822.48,	183.00,	183.00, 0.00) DC
	10TH HIGHEST VALUE IS	0.00914	AT (	439827.01,	4246833.81,	183.30,	183.30, 0.00) DC
OAR7F	1ST HIGHEST VALUE IS	0.00620	AT (	439827.01,	4246933.81,	186.10,	186.10, 0.00) DC
	2ND HIGHEST VALUE IS	0.00545	AT (	439827.01,	4247133.81,	173.10,	185.00, 0.00) DC
	3RD HIGHEST VALUE IS	0.00532	AT (	439877.01,	4246933.81,	184.90,	184.90, 0.00) DC
	4TH HIGHEST VALUE IS	0.00506	AT (	439777.01,	4246833.81,	183.00,	183.00, 0.00) DC
	5TH HIGHEST VALUE IS	0.00500	AT (	439827.01,	4246833.81,	183.30,	183.30, 0.00) DC
	6TH HIGHEST VALUE IS	0.00497	AT (	439815.68,	4246822.48,	183.00,	183.00, 0.00) DC
	7TH HIGHEST VALUE IS	0.00460	AT (	439927.01,	4247083.81,	173.10,	185.00, 0.00) DC
	8TH HIGHEST VALUE IS	0.00453	AT (	439877.01,	4247133.81,	173.10,	184.90, 0.00) DC
	9TH HIGHEST VALUE IS	0.00421	AT (	439827.01,	4246783.81,	182.60,	182.60, 0.00) DC
	10TH HIGHEST VALUE IS	0.00417	AT (	440015.68,	4247022.48,	173.10,	184.90, 0.00) DC
OAWTILF	1ST HIGHEST VALUE IS	0.21146	AT (	439619.85,	4247306.86,	180.30,	327.10, 0.00) DC
	2ND HIGHEST VALUE IS	0.07213	AT (	439477.01,	4247283.81,	173.00,	327.10, 0.00) DC
	3RD HIGHEST VALUE IS	0.06269	AT (	439427.01,	4247283.81,	173.00,	327.10, 0.00) DC
	4TH HIGHEST VALUE IS	0.06049	AT (	439627.01,	4247233.81,	173.10,	327.10, 0.00) DC
	5TH HIGHEST VALUE IS	0.05697	AT (	439577.01,	4247233.81,	173.00,	327.10, 0.00) DC
	6TH HIGHEST VALUE IS	0.05571	AT (	439615.68,	4247222.48,	173.00,	327.10, 0.00) DC
	7TH HIGHEST VALUE IS	0.05342	AT (	439377.01,	4247283.81,	173.00,	327.10, 0.00) DC
	8TH HIGHEST VALUE IS	0.05110	AT (	439527.01,	4247233.81,	173.00,	327.10, 0.00) DC
	9TH HIGHEST VALUE IS	0.04577	AT (	439515.68,	4247222.48,	173.00,	327.10, 0.00) DC
	10TH HIGHEST VALUE IS	0.04570	AT (	439477.01,	4247233.81,	173.00,	327.10, 0.00) DC



*** AERMOD - VERSION 22112 *** *** Ethylene oxide - South Charleston, WV Jan 25-26, 2022 Monitoring Eve *** 08/23/22
*** AERMET - VERSION 22112 *** *** Oxide Adducts; Triton; Covestro; Chemical Mixing *** 11:49:39
*** MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U* PAGE 11

*** THE SUMMARY OF MAXIMUM PERIOD (26 HRS) RESULTS ***

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

GROUP ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
OALIBF	1ST HIGHEST VALUE IS	0.14948 AT (439777.01, 4247183.81, 173.10, 184.40, 0.00)	DC	
	2ND HIGHEST VALUE IS	0.04950 AT (439827.01, 4247133.81, 173.10, 185.00, 0.00)	DC	
	3RD HIGHEST VALUE IS	0.04767 AT (439715.68, 4247222.48, 173.10, 327.10, 0.00)	DC	
	4TH HIGHEST VALUE IS	0.03556 AT (439727.01, 4247183.81, 173.10, 311.00, 0.00)	DC	
	5TH HIGHEST VALUE IS	0.03378 AT (439877.01, 4247133.81, 173.10, 184.90, 0.00)	DC	
	6TH HIGHEST VALUE IS	0.02615 AT (439915.68, 4247122.48, 173.10, 184.60, 0.00)	DC	
	7TH HIGHEST VALUE IS	0.02219 AT (439677.01, 4247233.81, 173.10, 327.10, 0.00)	DC	
	8TH HIGHEST VALUE IS	0.01854 AT (439927.01, 4247083.81, 173.10, 185.00, 0.00)	DC	
	9TH HIGHEST VALUE IS	0.01543 AT (439977.01, 4247083.81, 173.10, 184.70, 0.00)	DC	
	10TH HIGHEST VALUE IS	0.01525 AT (439827.01, 4247333.81, 173.10, 327.10, 0.00)	DC	
OA_FUGIT	1ST HIGHEST VALUE IS	0.28973 AT (439777.01, 4247183.81, 173.10, 184.40, 0.00)	DC	
	2ND HIGHEST VALUE IS	0.26195 AT (439619.85, 4247306.86, 180.30, 327.10, 0.00)	DC	
	3RD HIGHEST VALUE IS	0.23279 AT (439827.01, 4247133.81, 173.10, 185.00, 0.00)	DC	
	4TH HIGHEST VALUE IS	0.18619 AT (439727.01, 4247183.81, 173.10, 311.00, 0.00)	DC	
	5TH HIGHEST VALUE IS	0.16369 AT (439877.01, 4247133.81, 173.10, 184.90, 0.00)	DC	
	6TH HIGHEST VALUE IS	0.16312 AT (439715.68, 4247222.48, 173.10, 327.10, 0.00)	DC	
	7TH HIGHEST VALUE IS	0.16104 AT (439927.01, 4247083.81, 173.10, 185.00, 0.00)	DC	
	8TH HIGHEST VALUE IS	0.14915 AT (439827.01, 4246933.81, 186.10, 186.10, 0.00)	DC	
	9TH HIGHEST VALUE IS	0.13745 AT (439915.68, 4247122.48, 173.10, 184.60, 0.00)	DC	
	10TH HIGHEST VALUE IS	0.13312 AT (439677.01, 4247233.81, 173.10, 327.10, 0.00)	DC	
OA_ALL	1ST HIGHEST VALUE IS	0.29284 AT (439777.01, 4247183.81, 173.10, 184.40, 0.00)	DC	
	2ND HIGHEST VALUE IS	0.26354 AT (439619.85, 4247306.86, 180.30, 327.10, 0.00)	DC	
	3RD HIGHEST VALUE IS	0.23746 AT (439827.01, 4247133.81, 173.10, 185.00, 0.00)	DC	
	4TH HIGHEST VALUE IS	0.18931 AT (439727.01, 4247183.81, 173.10, 311.00, 0.00)	DC	
	5TH HIGHEST VALUE IS	0.16764 AT (439877.01, 4247133.81, 173.10, 184.90, 0.00)	DC	
	6TH HIGHEST VALUE IS	0.16565 AT (439927.01, 4247083.81, 173.10, 185.00, 0.00)	DC	
	7TH HIGHEST VALUE IS	0.16552 AT (439715.68, 4247222.48, 173.10, 327.10, 0.00)	DC	
	8TH HIGHEST VALUE IS	0.16001 AT (439827.01, 4246933.81, 186.10, 186.10, 0.00)	DC	
	9TH HIGHEST VALUE IS	0.14113 AT (439915.68, 4247122.48, 173.10, 184.60, 0.00)	DC	
	10TH HIGHEST VALUE IS	0.14106 AT (439877.01, 4246933.81, 184.90, 184.90, 0.00)	DC	
UCC_SC	1ST HIGHEST VALUE IS	0.30032 AT (439777.01, 4247183.81, 173.10, 184.40, 0.00)	DC	
	2ND HIGHEST VALUE IS	0.26833 AT (439619.85, 4247306.86, 180.30, 327.10, 0.00)	DC	
	3RD HIGHEST VALUE IS	0.24628 AT (439827.01, 4247133.81, 173.10, 185.00, 0.00)	DC	
	4TH HIGHEST VALUE IS	0.19543 AT (439727.01, 4247183.81, 173.10, 311.00, 0.00)	DC	
	5TH HIGHEST VALUE IS	0.17886 AT (439877.01, 4247133.81, 173.10, 184.90, 0.00)	DC	
	6TH HIGHEST VALUE IS	0.17785 AT (439927.01, 4247083.81, 173.10, 185.00, 0.00)	DC	
	7TH HIGHEST VALUE IS	0.17143 AT (439715.68, 4247222.48, 173.10, 327.10, 0.00)	DC	
	8TH HIGHEST VALUE IS	0.16577 AT (439827.01, 4246933.81, 186.10, 186.10, 0.00)	DC	
	9TH HIGHEST VALUE IS	0.15439 AT (439915.68, 4247122.48, 173.10, 184.60, 0.00)	DC	
	10TH HIGHEST VALUE IS	0.14796 AT (439877.01, 4246933.81, 184.90, 184.90, 0.00)	DC	



*** AERMOD - VERSION 22112 *** *** Ethylene oxide - South Charleston, WV Jan 25-26, 2022 Monitoring Eve *** 08/23/22
*** AERMET - VERSION 22112 *** *** Oxide Adducts; Triton; Covestro; Chemical Mixing *** 11:49:39
*** MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U* PAGE 12

*** THE SUMMARY OF MAXIMUM PERIOD (26 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 0.31951 AT (439777.01, 4247183.81, 173.10, 184.40, 0.00)	DC		
	2ND HIGHEST VALUE IS 0.28090 AT (439619.85, 4247306.86, 180.30, 327.10, 0.00)	DC		
	3RD HIGHEST VALUE IS 0.27111 AT (440327.01, 4246933.81, 173.10, 183.90, 0.00)	DC		
	4TH HIGHEST VALUE IS 0.26789 AT (439827.01, 4247133.81, 173.10, 185.00, 0.00)	DC		
	5TH HIGHEST VALUE IS 0.24805 AT (440315.68, 4246922.48, 173.10, 283.60, 0.00)	DC		
	6TH HIGHEST VALUE IS 0.21946 AT (439927.01, 4247083.81, 173.10, 185.00, 0.00)	DC		
	7TH HIGHEST VALUE IS 0.21427 AT (439977.01, 4247083.81, 173.10, 184.70, 0.00)	DC		
	8TH HIGHEST VALUE IS 0.21139 AT (439727.01, 4247183.81, 173.10, 311.00, 0.00)	DC		
	9TH HIGHEST VALUE IS 0.20636 AT (440277.01, 4246783.81, 183.80, 284.10, 0.00)	DC		
	10TH HIGHEST VALUE IS 0.20483 AT (439877.01, 4247133.81, 173.10, 184.90, 0.00)	DC		

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



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*** AERMOD - VERSION 22112 *** *** Ethylene oxide - South Charleston, WV Jan 25-26, 2022 Monitoring Eve ***
*** AERMET - VERSION 22112 *** *** Oxide Adducts; Triton; Covestro; Chemical Mixing ***
*** MODELOPTs: RegDFAULT 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 50 Warning Message(s)
A Total of 1 Informational Message(s)
A Total of 26 Hours Were Processed
A Total of 0 Calm Hours Identified
A Total of 1 Missing Hours Identified ( 3.85 Percent)

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

***** WARNING MESSAGES *****
SO W320 20 PPARM: Input Parameter May Be Out-of-Range for Parameter QS
SO W320 20 PPARM: Input Parameter May Be Out-of-Range for Parameter VS
SO W320 21 PPARM: Input Parameter May Be Out-of-Range for Parameter QS
SO W320 21 PPARM: Input Parameter May Be Out-of-Range for Parameter VS
SO W320 22 PPARM: Input Parameter May Be Out-of-Range for Parameter QS
SO W320 22 PPARM: Input Parameter May Be Out-of-Range for Parameter VS
SO W320 23 PPARM: Input Parameter May Be Out-of-Range for Parameter QS
SO W320 24 PPARM: Input Parameter May Be Out-of-Range for Parameter QS
SO W320 94 PPARM: Input Parameter May Be Out-of-Range for Parameter QS
SO W320 97 PPARM: Input Parameter May Be Out-of-Range for Parameter QS
SO W320 100 PPARM: Input Parameter May Be Out-of-Range for Parameter QS
SO W320 101 PPARM: Input Parameter May Be Out-of-Range for Parameter QS
SO W320 104 PPARM: Input Parameter May Be Out-of-Range for Parameter QS
SO W320 105 PPARM: Input Parameter May Be Out-of-Range for Parameter QS
SO W320 128 PPARM: Input Parameter May Be Out-of-Range for Parameter QS
SO W320 135 PPARM: Input Parameter May Be Out-of-Range for Parameter QS
SO W320 136 PPARM: Input Parameter May Be Out-of-Range for Parameter QS
SO W320 163 PPARM: Input Parameter May Be Out-of-Range for Parameter QS
SO W320 164 PPARM: Input Parameter May Be Out-of-Range for Parameter QS
SO W320 165 PPARM: Input Parameter May Be Out-of-Range for Parameter QS
SO W320 166 PPARM: Input Parameter May Be Out-of-Range for Parameter QS
SO W390 197 LPARM: Aspect ratio (L/W) of LINE source greater than 100 OAWTIL
SO W320 320 PPARM: Input Parameter May Be Out-of-Range for Parameter QS
SO W320 321 PPARM: Input Parameter May Be Out-of-Range for Parameter QS
SO W320 322 PPARM: Input Parameter May Be Out-of-Range for Parameter QS
ME W187 28 MEOPEN: ADJ_U* Option For Stable Low Winds used in AERMET
OU W565 32 PERPLT: Possible Conflict With Dynamically Allocated FUNIT PLOTFILE
OU W565 38 PERPLT: Possible Conflict With Dynamically Allocated FUNIT PLOTFILE
OU W565 49 PERPLT: Possible Conflict With Dynamically Allocated FUNIT PLOTFILE
OU W565 50 PERPLT: Possible Conflict With Dynamically Allocated FUNIT PLOTFILE
OU W565 51 PERPLT: Possible Conflict With Dynamically Allocated FUNIT PLOTFILE
OU W565 52 PERPLT: Possible Conflict With Dynamically Allocated FUNIT PLOTFILE
OU W565 53 PERPLT: Possible Conflict With Dynamically Allocated FUNIT PLOTFILE
OU W565 54 PERPLT: Possible Conflict With Dynamically Allocated FUNIT PLOTFILE
OU W565 55 PERPLT: Possible Conflict With Dynamically Allocated FUNIT PLOTFILE
OU W565 56 PERPLT: Possible Conflict With Dynamically Allocated FUNIT PLOTFILE
OU W565 57 PERPLT: Possible Conflict With Dynamically Allocated FUNIT PLOTFILE
OU W565 60 PERPLT: Possible Conflict With Dynamically Allocated FUNIT PLOTFILE
OU W565 61 PERPLT: Possible Conflict With Dynamically Allocated FUNIT PLOTFILE
OU W565 62 PERPLT: Possible Conflict With Dynamically Allocated FUNIT PLOTFILE
OU W565 63 PERPLT: Possible Conflict With Dynamically Allocated FUNIT PLOTFILE
OU W565 64 PERPLT: Possible Conflict With Dynamically Allocated FUNIT PLOTFILE
OU W565 65 PERPLT: Possible Conflict With Dynamically Allocated FUNIT PLOTFILE
OU W565 66 PERPLT: Possible Conflict With Dynamically Allocated FUNIT PLOTFILE
OU W565 67 PERPLT: Possible Conflict With Dynamically Allocated FUNIT PLOTFILE
OU W565 68 PERPLT: Possible Conflict With Dynamically Allocated FUNIT PLOTFILE
OU W565 69 PERPLT: Possible Conflict With Dynamically Allocated FUNIT PLOTFILE
OU W565 70 PERPLT: Possible Conflict With Dynamically Allocated FUNIT PLOTFILE
OU W565 71 PERPLT: Possible Conflict With Dynamically Allocated FUNIT PLOTFILE
OU W565 74 PERPLT: Possible Conflict With Dynamically Allocated FUNIT PLOTFILE
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February Monitoring Event AERMOD Summary File: Institute

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*** AERMOD - VERSION 22112 *** *** Ethylene oxide - Institute *** 08/23/22
*** AERMET - VERSION 22112 *** *** Ethylene Oxide Distribution AND Polyox Processes *** 14:19:22
*** MODELSETS: RegDEFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U* *** 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.
* ADJ_U* - Use ADJ_U* option for SBL in AERMET
* Model Assumes No FLAGPOLE Receptor Heights.
* The User Specified a Pollutant Type of: OTHER

**Model Calculates PERIOD Averages Only

**This Run Includes: 26 Source(s); 21 Source Group(s); and 15537 Receptor(s)

with: 7 POINT(s), including 0 POINTCAP(s) and 0 POINTHOR(s)
and: 19 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 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: 22112

**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)

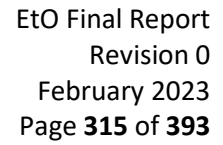
**NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours
m for Missing Hours
b for Both Calm and Missing Hours

**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 180.24 ; 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 = 14.6 MB of RAM.

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

**Detailed Error/Message File: error.fil
**File for Summary of Results: summary.sum
```



1.54, 3.09, 5.14, 8.23, 10.80,



*** AERMOD - VERSION 22112 *** *** Ethylene oxide - Institute *** 08/23/22
*** AERMET - VERSION 22112 *** *** Ethylene Oxide Distribution AND Polyox Processes *** 14:19:22
PAGE 3

*** MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*
*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file: INST_Feb_22.SFC Met Version: 22112
Profile file: INST_Feb_22.PFL
Surface format: FREE
Profile Format: FREE
Surface station no.: 13866 Upper air station no.: 53829
Name: INSTITUTE/SOUTH CHARLESTON SITE, WV Name: UNKNOWN
Year: 2022 Year: 2022

First 24 hours of scalar data																							
YR	MO	DY	JDY	HR	HO	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O	LEN	Z0	BOWEN	ALBEDO	REF	WS	WD	HT	REF	TA	HT	
22	02	15	46	01	-999.0	-9.000	-9.000	-9.000	-999.	-999999.0	0.04	0.43	1.00	0.28	220.	7.9	267.1	7.9					
22	02	15	46	02	-0.6	0.050	-9.000	-9.000	-999.	27.	18.0	0.04	0.43	1.00	0.28	232.	7.9	267.1	7.9				
22	02	15	46	03	-0.6	0.050	-9.000	-9.000	-999.	27.	18.0	0.04	0.43	1.00	0.28	218.	7.9	266.1	7.9				
22	02	15	46	04	999.0	9.000	-9.000	-9.000	-999.	-99999.0	0.24	0.43	1.00	0.76	102.	7.9	266.1	7.9					
22	02	15	46	05	-0.6	0.051	-9.000	-9.000	-999.	27.	18.1	0.04	0.43	1.00	0.28	203.	7.9	266.1	7.9				
22	02	15	46	06	-1.2	0.063	-9.000	-9.000	-999.	38.	18.3	0.35	0.43	1.00	0.28	64.	7.9	266.1	7.9				
22	02	15	46	07	-0.6	0.050	-9.000	-9.000	-999.	27.	18.0	0.04	0.43	1.00	0.28	223.	7.9	266.1	7.9				
22	02	15	46	08	-0.8	0.051	-9.000	-9.000	-999.	28.	14.9	0.04	0.43	0.70	0.36	179.	7.9	267.1	7.9				
22	02	15	46	09	-4.6	0.164	-9.000	-9.000	-999.	159.	86.2	0.24	0.43	0.35	1.43	112.	7.9	269.1	7.9				
22	02	15	46	10	0.1	0.073	0.022	0.014	4.	52.	352.3	0.01	0.43	0.24	1.25	149.	7.9	273.6	7.9				
22	02	15	46	11	0.1	0.061	0.025	0.015	5.	36.	-201.9	0.01	0.43	0.20	1.03	134.	7.9	274.6	7.9				
22	02	15	46	12	0.1	0.061	0.027	0.015	7.	36.	-201.8	0.01	0.43	0.19	1.03	125.	7.9	276.9	7.9				
22	02	15	46	13	0.1	0.065	0.028	0.015	8.	40.	-249.7	0.36	0.43	0.18	0.49	46.	7.9	280.0	7.9				
22	02	15	46	14	0.1	0.031	0.029	0.018	9.	13.	-26.8	0.01	0.43	0.18	0.49	141.	7.9	281.4	7.9				
22	02	15	46	15	0.1	0.111	0.030	0.010	10.	88.	-1202.6	0.36	0.43	0.19	0.85	37.	7.9	283.9	7.9				
22	02	15	46	16	0.1	0.066	0.031	0.015	10.	41.	-255.5	0.01	0.43	0.22	1.12	136.	7.9	284.2	7.9				
22	02	15	46	17	0.1	0.113	0.032	0.010	11.	92.	-1294.5	0.24	0.43	0.29	0.98	118.	7.9	284.9	7.9				
22	02	15	46	18	-5.4	0.106	-9.000	-9.000	-999.	83.	19.5	0.35	0.43	0.51	0.85	84.	7.9	283.8	7.9				
22	02	15	46	19	-999.0	-9.000	-9.000	-9.000	-999.	-99999.0	0.01	0.43	1.00	0.28	142.	7.9	278.3	7.9					
22	02	15	46	20	-0.8	0.046	-9.000	-9.000	-999.	24.	11.1	0.01	0.43	1.00	0.45	143.	7.9	276.8	7.9				
22	02	15	46	21	2.8	0.075	-9.000	-9.000	-999.	49.	13.6	0.36	0.43	1.00	0.54	55.	7.9	275.4	7.9				
22	02	15	46	22	-999.0	-9.000	-9.000	-9.000	-999.	-99999.0	0.35	0.43	1.00	1.03	63.	7.9	276.5	7.9					
22	02	15	46	23	-13.5	0.160	-9.000	-9.000	-999.	153.	28.0	0.35	0.43	1.00	1.25	60.	7.9	275.5	7.9				
22	02	15	46	24	-13.5	0.159	-9.000	-9.000	-999.	153.	28.0	0.35	0.43	1.00	1.25	76.	7.9	274.9	7.9				

First hour of profile data
YR MO DY HR HEIGHT F WDIR WSPD AMB_TMP sigmaA sigmaW sigmaV
22 02 15 01 7.9 1 220. 0.09 267.2 99.0 -99.00 -99.00

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



*** AERMOD - VERSION 22112 ***			*** Ethylene oxide - Institute						***			08/23/22	
*** AERMET - VERSION 22112 ***			*** Ethylene Oxide Distribution AND Polyox Processes						***			14:19:22	
*** MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*												PAGE 4	
*** THE SUMMARY OF MAXIMUM PERIOD (25 HRS) RESULTS ***													



*** AERMOD - VERSION 22112 ***			*** Ethylene oxide - Institute						***			08/23/22		
*** AERMET - VERSION 22112 ***			*** Ethylene Oxide Distribution AND Polyox Processes						***			14:19:22		
*** MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*												PAGE 5		
*** THE SUMMARY OF MAXIMUM PERIOD (25 HRS) RESULTS ***														
			** CONC OF OTHER			IN MICROGRAMS/M**3								
GROUP ID		AVERAGE CONC		RECEPTOR (XR, YR, ZELEV, ZHLL, ZFLAG)							OF TYPE		NETWORK GRID-ID	
EODTANKF		1ST HIGHEST VALUE IS	0.14009 AT (	431331.66,	4249218.67,	184.50,	328.30,	0.00)	DC					
		2ND HIGHEST VALUE IS	0.13376 AT (	431292.99,	4249230.00,	184.70,	328.30,	0.00)	DC					
		3RD HIGHEST VALUE IS	0.13362 AT (	431386.12,	4248944.69,	182.00,	328.25,	0.00)	DC					
		4TH HIGHEST VALUE IS	0.12704 AT (	431342.99,	4249230.00,	184.80,	328.30,	0.00)	DC					
		5TH HIGHEST VALUE IS	0.12465 AT (	431292.99,	4249280.00,	193.20,	328.30,	0.00)	DC					
		6TH HIGHEST VALUE IS	0.09900 AT (	431242.99,	4249230.00,	184.40,	328.30,	0.00)	DC					
		7TH HIGHEST VALUE IS	0.09208 AT (	431342.99,	4249280.00,	189.50,	328.30,	0.00)	DC					
		8TH HIGHEST VALUE IS	0.08785 AT (	431242.99,	4249280.00,	196.50,	328.30,	0.00)	DC					
		9TH HIGHEST VALUE IS	0.08452 AT (	431231.66,	4249218.67,	183.90,	328.30,	0.00)	DC					
		10TH HIGHEST VALUE IS	0.08247 AT (	431392.99,	4249230.00,	184.60,	328.30,	0.00)	DC					
EODFLARF		1ST HIGHEST VALUE IS	0.04372 AT (	431431.66,	4249218.67,	184.40,	328.30,	0.00)	DC					
		2ND HIGHEST VALUE IS	0.04355 AT (	431392.99,	4249230.00,	184.60,	328.30,	0.00)	DC					
		3RD HIGHEST VALUE IS	0.03929 AT (	431392.99,	4249280.00,	190.70,	328.30,	0.00)	DC					
		4TH HIGHEST VALUE IS	0.03876 AT (	431342.99,	4249280.00,	189.50,	328.30,	0.00)	DC					
		5TH HIGHEST VALUE IS	0.03593 AT (	431442.99,	4249230.00,	185.00,	328.30,	0.00)	DC					
		6TH HIGHEST VALUE IS	0.03223 AT (	431386.12,	4248944.69,	182.00,	328.25,	0.00)	DC					
		7TH HIGHEST VALUE IS	0.02877 AT (	431342.99,	4249230.00,	184.80,	328.30,	0.00)	DC					
		8TH HIGHEST VALUE IS	0.02331 AT (	431331.66,	4249318.67,	200.90,	328.30,	0.00)	DC					
		9TH HIGHEST VALUE IS	0.02307 AT (	431292.99,	4249280.00,	193.20,	328.30,	0.00)	DC					
		10TH HIGHEST VALUE IS	0.02226 AT (	431331.66,	4249218.67,	184.50,	328.30,	0.00)	DC					
EODR25F		1ST HIGHEST VALUE IS	0.10903 AT (	431831.66,	4249218.67,	186.20,	328.30,	0.00)	DC					
		2ND HIGHEST VALUE IS	0.06185 AT (	431792.99,	4249230.00,	186.20,	328.30,	0.00)	DC					
		3RD HIGHEST VALUE IS	0.03305 AT (	431842.99,	4249230.00,	186.80,	328.30,	0.00)	DC					
		4TH HIGHEST VALUE IS	0.02571 AT (	431792.99,	4249280.00,	187.80,	328.30,	0.00)	DC					
		5TH HIGHEST VALUE IS	0.02534 AT (	431742.99,	4249280.00,	190.90,	328.30,	0.00)	DC					
		6TH HIGHEST VALUE IS	0.02465 AT (	431892.99,	4249230.00,	187.60,	326.50,	0.00)	DC					
		7TH HIGHEST VALUE IS	0.01973 AT (	431931.66,	4249218.67,	187.70,	326.50,	0.00)	DC					
		8TH HIGHEST VALUE IS	0.01815 AT (	431742.99,	4249230.00,	186.00,	328.30,	0.00)	DC					
		9TH HIGHEST VALUE IS	0.01543 AT (	431731.66,	4249318.67,	204.10,	326.50,	0.00)	DC					
		10TH HIGHEST VALUE IS	0.01391 AT (	431942.99,	4249230.00,	187.60,	326.50,	0.00)	DC					
EODFUGI		1ST HIGHEST VALUE IS	0.54600 AT (	431331.66,	4249218.67,	184.50,	328.30,	0.00)	DC					
		2ND HIGHEST VALUE IS	0.50980 AT (	431292.99,	4249280.00,	193.20,	328.30,	0.00)	DC					
		3RD HIGHEST VALUE IS	0.50920 AT (	431342.99,	4249230.00,	184.80,	328.30,	0.00)	DC					
		4TH HIGHEST VALUE IS	0.50541 AT (	431292.99,	4249230.00,	184.70,	328.30,	0.00)	DC					
		5TH HIGHEST VALUE IS	0.41821 AT (	431386.12,	4248944.69,	182.00,	328.25,	0.00)	DC					
		6TH HIGHEST VALUE IS	0.39984 AT (	431342.99,	4249280.00,	189.50,	328.30,	0.00)	DC					
		7TH HIGHEST VALUE IS	0.36088 AT (	431242.99,	4249230.00,	184.40,	328.30,	0.00)	DC					
		8TH HIGHEST VALUE IS	0.35272 AT (	431392.99,	4249230.00,	184.60,	328.30,	0.00)	DC					
		9TH HIGHEST VALUE IS	0.33873 AT (	431242.99,	4249280.00,	196.50,	328.30,	0.00)	DC					
		10TH HIGHEST VALUE IS	0.30548 AT (	431231.66,	4249218.67,	183.90,	328.30,	0.00)	DC					



AERMOD - VERSION 22112 ***			Ethylene oxide - Institute							08/23/22		
*** AERMET - VERSION 22112 ***			Ethylene Oxide Distribution AND Polyox Processes							14:19:22		
*** MODELOPTS:			RegDFAULT	CONC	ELEV	NODRYDPLT	NOWETDPLT	RURAL	ADJ_U*	PAGE 6		
*** THE SUMMARY OF MAXIMUM PERIOD (25 HRS) RESULTS ***												
** CONC OF OTHER IN MICROGRAMS/M**3 **												
GROUP ID			AVERAGE CONC		RECEPTOR (XR, YR, ZELEV, ZHLL, ZFLAG)					OF TYPE	NETWORK GRID-ID	
EODIST	1ST HIGHEST VALUE IS	0.55432 AT (	431331.66,	4249218.67,	184.50,	328.30,	0.00)	DC				
	2ND HIGHEST VALUE IS	0.51875 AT (	431292.99,	4249280.00,	193.20,	328.30,	0.00)	DC				
	3RD HIGHEST VALUE IS	0.51796 AT (	431342.99,	4249230.00,	184.80,	328.30,	0.00)	DC				
	4TH HIGHEST VALUE IS	0.51317 AT (	431292.99,	4249230.00,	184.70,	328.30,	0.00)	DC				
	5TH HIGHEST VALUE IS	0.41868 AT (	431386.12,	4248944.69,	182.00,	328.25,	0.00)	DC				
	6TH HIGHEST VALUE IS	0.40753 AT (	431342.99,	4249280.00,	189.50,	328.30,	0.00)	DC				
	7TH HIGHEST VALUE IS	0.36880 AT (	431242.99,	4249230.00,	184.40,	328.30,	0.00)	DC				
	8TH HIGHEST VALUE IS	0.36065 AT (	431392.99,	4249230.00,	184.60,	328.30,	0.00)	DC				
	9TH HIGHEST VALUE IS	0.35403 AT (	431242.99,	4249330.00,	216.00,	328.30,	0.00)	DC				
	10TH HIGHEST VALUE IS	0.34849 AT (	431242.99,	4249280.00,	196.50,	328.30,	0.00)	DC				
221A	1ST HIGHEST VALUE IS	0.07425 AT (	430992.99,	4249330.00,	233.00,	328.30,	0.00)	DC				
	2ND HIGHEST VALUE IS	0.06957 AT (	431192.99,	4249380.00,	235.60,	328.30,	0.00)	DC				
	3RD HIGHEST VALUE IS	0.06433 AT (	431042.99,	4249330.00,	229.30,	328.30,	0.00)	DC				
	4TH HIGHEST VALUE IS	0.06146 AT (	431142.99,	4249380.00,	239.70,	328.30,	0.00)	DC				
	5TH HIGHEST VALUE IS	0.06030 AT (	430942.99,	4249330.00,	234.70,	328.30,	0.00)	DC				
	6TH HIGHEST VALUE IS	0.05318 AT (	431092.99,	4249380.00,	243.20,	328.30,	0.00)	DC				
	7TH HIGHEST VALUE IS	0.04546 AT (	430892.99,	4249330.00,	234.70,	328.30,	0.00)	DC				
	8TH HIGHEST VALUE IS	0.04202 AT (	431042.99,	4249380.00,	247.70,	328.30,	0.00)	DC				
	9TH HIGHEST VALUE IS	0.04181 AT (	431242.99,	4249380.00,	231.00,	328.30,	0.00)	DC				
	10TH HIGHEST VALUE IS	0.03683 AT (	431031.66,	4249318.67,	226.10,	328.30,	0.00)	DC				
230M	1ST HIGHEST VALUE IS	0.17436 AT (	431792.99,	4248130.00,	172.80,	314.60,	0.00)	DC				
	2ND HIGHEST VALUE IS	0.16869 AT (	431931.66,	4248118.67,	180.80,	314.60,	0.00)	DC				
	3RD HIGHEST VALUE IS	0.15126 AT (	431731.66,	4248218.67,	180.80,	314.60,	0.00)	DC				
	4TH HIGHEST VALUE IS	0.14631 AT (	431692.99,	4248230.00,	180.70,	180.70,	0.00)	DC				
	5TH HIGHEST VALUE IS	0.14324 AT (	431842.99,	4248130.00,	173.50,	314.60,	0.00)	DC				
	6TH HIGHEST VALUE IS	0.13575 AT (	431892.99,	4248080.00,	172.80,	314.60,	0.00)	DC				
	7TH HIGHEST VALUE IS	0.13472 AT (	431831.66,	4248118.67,	172.80,	314.60,	0.00)	DC				
	8TH HIGHEST VALUE IS	0.12902 AT (	431631.66,	4248218.67,	172.80,	317.20,	0.00)	DC				
	9TH HIGHEST VALUE IS	0.12877 AT (	431879.22,	4248066.23,	172.80,	314.60,	0.00)	DC				
	10TH HIGHEST VALUE IS	0.12844 AT (	431692.99,	4248080.00,	172.80,	314.60,	0.00)	DC				
230L	1ST HIGHEST VALUE IS	0.83531 AT (	431792.99,	4248130.00,	172.80,	314.60,	0.00)	DC				
	2ND HIGHEST VALUE IS	0.77665 AT (	431931.66,	4248118.67,	180.80,	314.60,	0.00)	DC				
	3RD HIGHEST VALUE IS	0.71611 AT (	431731.66,	4248218.67,	180.80,	314.60,	0.00)	DC				
	4TH HIGHEST VALUE IS	0.69671 AT (	431842.99,	4248130.00,	173.50,	314.60,	0.00)	DC				
	5TH HIGHEST VALUE IS	0.68712 AT (	431692.99,	4248230.00,	180.70,	180.70,	0.00)	DC				
	6TH HIGHEST VALUE IS	0.65635 AT (	431831.66,	4248118.67,	172.80,	314.60,	0.00)	DC				
	7TH HIGHEST VALUE IS	0.62560 AT (	431892.99,	4248080.00,	172.80,	314.60,	0.00)	DC				
	8TH HIGHEST VALUE IS	0.60360 AT (	431742.99,	4248080.00,	172.80,	314.60,	0.00)	DC				
	9TH HIGHEST VALUE IS	0.59660 AT (	431642.99,	4248230.00,	176.60,	181.20,	0.00)	DC				
	10TH HIGHEST VALUE IS	0.59384 AT (	431879.22,	4248066.23,	172.80,	314.60,	0.00)	DC				



*** AERMOD - VERSION 22112 ***			*** Ethylene oxide - Institute						***			08/23/22		
*** AERMET - VERSION 22112 ***			*** Ethylene Oxide Distribution AND Polyox Processes						***			14:19:22		
*** MODELOPTS:			RegDFault	CONC	ELEV	NODRYDPLT	NOWETDPLT	RURAL	ADJ_U*				PAGE 7	
*** THE SUMMARY OF MAXIMUM PERIOD (25 HRS) RESULTS ***														
** CONC OF OTHER IN MICROGRAMS/M**3 **														
GROUP ID	AVERAGE CONC			RECEPTOR (XR, YR, ZELEV, ZHLL, ZFLAG)						OF TYPE	NETWORK GRID ID			
230K	1ST HIGHEST VALUE IS	0.17318	AT (	431792.99,	4248130.00,	172.80,	314.60,	0.00)	DC					
	2ND HIGHEST VALUE IS	0.15500	AT (	431842.99,	4248130.00,	173.50,	314.60,	0.00)	DC					
	3RD HIGHEST VALUE IS	0.15468	AT (	431731.66,	4248218.67,	180.80,	314.60,	0.00)	DC					
	4TH HIGHEST VALUE IS	0.14906	AT (	431692.99,	4248230.00,	180.70,	180.70,	0.00)	DC					
	5TH HIGHEST VALUE IS	0.14552	AT (	431831.66,	4248118.67,	172.80,	314.60,	0.00)	DC					
	6TH HIGHEST VALUE IS	0.12901	AT (	431742.99,	4248080.00,	172.80,	314.60,	0.00)	DC					
	7TH HIGHEST VALUE IS	0.12781	AT (	431931.66,	4248118.67,	180.80,	314.60,	0.00)	DC					
	8TH HIGHEST VALUE IS	0.12634	AT (	431592.99,	4248180.00,	172.80,	314.60,	0.00)	DC					
	9TH HIGHEST VALUE IS	0.12574	AT (	431642.99,	4248230.00,	176.60,	181.20,	0.00)	DC					
	10TH HIGHEST VALUE IS	0.12213	AT (	431642.99,	4248180.00,	172.80,	314.60,	0.00)	DC					
230O	1ST HIGHEST VALUE IS	0.01057	AT (	431431.66,	4249318.67,	211.40,	328.30,	0.00)	DC					
	2ND HIGHEST VALUE IS	0.00876	AT (	431842.99,	4248130.00,	173.50,	314.60,	0.00)	DC					
	3RD HIGHEST VALUE IS	0.00855	AT (	431592.99,	4249330.00,	212.20,	328.30,	0.00)	DC					
	4TH HIGHEST VALUE IS	0.00849	AT (	431892.99,	4248130.00,	180.70,	314.60,	0.00)	DC					
	5TH HIGHEST VALUE IS	0.00811	AT (	431831.66,	4248118.67,	172.80,	314.60,	0.00)	DC					
	6TH HIGHEST VALUE IS	0.00796	AT (	431792.99,	4248130.00,	172.80,	314.60,	0.00)	DC					
	7TH HIGHEST VALUE IS	0.00775	AT (	431629.23,	4249316.23,	211.40,	326.50,	0.00)	DC					
	8TH HIGHEST VALUE IS	0.00763	AT (	431631.66,	4249318.67,	211.80,	326.50,	0.00)	DC					
	9TH HIGHEST VALUE IS	0.00760	AT (	431392.99,	4249430.00,	213.90,	328.30,	0.00)	DC					
	10TH HIGHEST VALUE IS	0.00672	AT (	431742.99,	4248080.00,	172.80,	314.60,	0.00)	DC					
230HH	1ST HIGHEST VALUE IS	0.00000	AT (	0.00,	0.00,	0.00,	0.00,	0.00)	DC					
	2ND HIGHEST VALUE IS	0.00000	AT (	0.00,	0.00,	0.00,	0.00,	0.00)	DC					
	3RD HIGHEST VALUE IS	0.00000	AT (	0.00,	0.00,	0.00,	0.00,	0.00)	DC					
	4TH HIGHEST VALUE IS	0.00000	AT (	0.00,	0.00,	0.00,	0.00,	0.00)	DC					
	5TH HIGHEST VALUE IS	0.00000	AT (	0.00,	0.00,	0.00,	0.00,	0.00)	DC					
	6TH HIGHEST VALUE IS	0.00000	AT (	0.00,	0.00,	0.00,	0.00,	0.00)	DC					
	7TH HIGHEST VALUE IS	0.00000	AT (	0.00,	0.00,	0.00,	0.00,	0.00)	DC					
	8TH HIGHEST VALUE IS	0.00000	AT (	0.00,	0.00,	0.00,	0.00,	0.00)	DC					
	9TH HIGHEST VALUE IS	0.00000	AT (	0.00,	0.00,	0.00,	0.00,	0.00)	DC					
	10TH HIGHEST VALUE IS	0.00000	AT (	0.00,	0.00,	0.00,	0.00,	0.00)	DC					
PPOINT	1ST HIGHEST VALUE IS	1.19085	AT (	431792.99,	4248130.00,	172.80,	314.60,	0.00)	DC					
	2ND HIGHEST VALUE IS	1.07850	AT (	431931.66,	4248118.67,	180.80,	314.60,	0.00)	DC					
	3RD HIGHEST VALUE IS	1.02701	AT (	431731.66,	4248218.67,	180.80,	314.60,	0.00)	DC					
	4TH HIGHEST VALUE IS	1.00374	AT (	431842.99,	4248130.00,	173.50,	314.60,	0.00)	DC					
	5TH HIGHEST VALUE IS	0.98706	AT (	431692.99,	4248230.00,	180.70,	180.70,	0.00)	DC					
	6TH HIGHEST VALUE IS	0.94473	AT (	431831.66,	4248118.67,	172.80,	314.60,	0.00)	DC					
	7TH HIGHEST VALUE IS	0.86701	AT (	431892.99,	4248080.00,	172.80,	314.60,	0.00)	DC					
	8TH HIGHEST VALUE IS	0.86486	AT (	431742.99,	4248080.00,	172.80,	314.60,	0.00)	DC					
	9TH HIGHEST VALUE IS	0.85373	AT (	431642.99,	4248230.00,	176.60,	181.20,	0.00)	DC					
	10TH HIGHEST VALUE IS	0.83469	AT (	431592.99,	4248180.00,	172.80,	314.60,	0.00)	DC					



*** AERMOD - VERSION 22112 ***			*** Ethylene oxide - Institute						***			08/23/22		
*** AERMET - VERSION 22112 ***			*** Ethylene Oxide Distribution AND Polyox Processes						***			14:19:22		
*** MODELOPTS:			RegDFAULT	CONC	ELEV	NODRYDPLT	NOWETDPLT	RURAL	ADJ_U*				PAGE 8	
*** THE SUMMARY OF MAXIMUM PERIOD (25 HRS) RESULTS ***														
** CONC OF OTHER IN MICROGRAMS/M**3 **														
GROUP ID		AVERAGE CONC			RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)					OF TYPE		NETWORK GRID-ID		
POLYVOL1		1ST HIGHEST VALUE IS	0.03263	AT (	431892.99,	4248130.00,	180.70,	314.60,	0.00)	DC				
		2ND HIGHEST VALUE IS	0.03159	AT (	431792.99,	4248180.00,	180.70,	314.60,	0.00)	DC				
		3RD HIGHEST VALUE IS	0.03097	AT (	431731.66,	4248218.67,	180.80,	314.60,	0.00)	DC				
		4TH HIGHEST VALUE IS	0.03069	AT (	431931.66,	4248118.67,	180.80,	314.60,	0.00)	DC				
		5TH HIGHEST VALUE IS	0.02875	AT (	431692.99,	4248230.00,	180.70,	180.70,	0.00)	DC				
		6TH HIGHEST VALUE IS	0.02836	AT (	431842.99,	4248130.00,	173.50,	314.60,	0.00)	DC				
		7TH HIGHEST VALUE IS	0.02805	AT (	431442.99,	4249280.00,	193.20,	328.30,	0.00)	DC				
		8TH HIGHEST VALUE IS	0.02723	AT (	431742.99,	4248180.00,	174.10,	314.60,	0.00)	DC				
		9TH HIGHEST VALUE IS	0.02666	AT (	431831.66,	4248118.67,	172.80,	314.60,	0.00)	DC				
		10TH HIGHEST VALUE IS	0.02648	AT (	431392.99,	4249280.00,	190.70,	328.30,	0.00)	DC				
PBL8389		1ST HIGHEST VALUE IS	0.00730	AT (	431731.66,	4248218.67,	180.80,	314.60,	0.00)	DC				
		2ND HIGHEST VALUE IS	0.00723	AT (	431792.99,	4248180.00,	180.70,	314.60,	0.00)	DC				
		3RD HIGHEST VALUE IS	0.00702	AT (	431692.99,	4248230.00,	180.70,	180.70,	0.00)	DC				
		4TH HIGHEST VALUE IS	0.00606	AT (	431742.99,	4248180.00,	174.10,	314.60,	0.00)	DC				
		5TH HIGHEST VALUE IS	0.00599	AT (	431642.99,	4248230.00,	176.60,	181.20,	0.00)	DC				
		6TH HIGHEST VALUE IS	0.00579	AT (	431592.99,	4248280.00,	180.90,	317.20,	0.00)	DC				
		7TH HIGHEST VALUE IS	0.00576	AT (	431892.99,	4248130.00,	180.70,	314.60,	0.00)	DC				
		8TH HIGHEST VALUE IS	0.00576	AT (	431692.99,	4248180.00,	172.80,	314.60,	0.00)	DC				
		9TH HIGHEST VALUE IS	0.00563	AT (	431392.99,	4249330.00,	202.70,	328.30,	0.00)	DC				
		10TH HIGHEST VALUE IS	0.00556	AT (	431742.99,	4248130.00,	172.80,	314.60,	0.00)	DC				
PFUGIT		1ST HIGHEST VALUE IS	0.03883	AT (	431792.99,	4248180.00,	180.70,	314.60,	0.00)	DC				
		2ND HIGHEST VALUE IS	0.03839	AT (	431892.99,	4248130.00,	180.70,	314.60,	0.00)	DC				
		3RD HIGHEST VALUE IS	0.03828	AT (	431731.66,	4248218.67,	180.80,	314.60,	0.00)	DC				
		4TH HIGHEST VALUE IS	0.03577	AT (	431692.99,	4248230.00,	180.70,	180.70,	0.00)	DC				
		5TH HIGHEST VALUE IS	0.03575	AT (	431931.66,	4248118.67,	180.80,	314.60,	0.00)	DC				
		6TH HIGHEST VALUE IS	0.03370	AT (	431842.99,	4248130.00,	173.50,	314.60,	0.00)	DC				
		7TH HIGHEST VALUE IS	0.03329	AT (	431742.99,	4248180.00,	174.10,	314.60,	0.00)	DC				
		8TH HIGHEST VALUE IS	0.03184	AT (	431831.66,	4248118.67,	172.80,	314.60,	0.00)	DC				
		9TH HIGHEST VALUE IS	0.03100	AT (	431792.99,	4248130.00,	172.80,	314.60,	0.00)	DC				
		10TH HIGHEST VALUE IS	0.03081	AT (	431642.99,	4248230.00,	176.60,	181.20,	0.00)	DC				
POLYOX		1ST HIGHEST VALUE IS	1.22184	AT (	431792.99,	4248130.00,	172.80,	314.60,	0.00)	DC				
		2ND HIGHEST VALUE IS	1.11425	AT (	431931.66,	4248118.67,	180.80,	314.60,	0.00)	DC				
		3RD HIGHEST VALUE IS	1.06528	AT (	431731.66,	4248218.67,	180.80,	314.60,	0.00)	DC				
		4TH HIGHEST VALUE IS	1.03745	AT (	431842.99,	4248130.00,	173.50,	314.60,	0.00)	DC				
		5TH HIGHEST VALUE IS	1.02283	AT (	431692.99,	4248230.00,	180.70,	180.70,	0.00)	DC				
		6TH HIGHEST VALUE IS	0.97657	AT (	431831.66,	4248118.67,	172.80,	314.60,	0.00)	DC				
		7TH HIGHEST VALUE IS	0.89499	AT (	431892.99,	4248080.00,	172.80,	314.60,	0.00)	DC				
		8TH HIGHEST VALUE IS	0.89035	AT (	431742.99,	4248080.00,	172.80,	314.60,	0.00)	DC				
		9TH HIGHEST VALUE IS	0.88454	AT (	431642.99,	4248230.00,	176.60,	181.20,	0.00)	DC				
		10TH HIGHEST VALUE IS	0.86000	AT (	431592.99,	4248180.00,	172.80,	314.60,	0.00)	DC				



*** AERMOD - VERSION 22112 *** *** Ethylene oxide - Institute *** 08/23/22
*** AERMET - VERSION 22112 *** *** Ethylene Oxide Distribution AND Polyox Processes *** 14:19:22
PAGE 9

*** MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

*** THE SUMMARY OF MAXIMUM PERIOD (25 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	1.25158 AT (	431792.99,	4248130.00,	172.80,	314.60, 0.00) DC
	2ND HIGHEST VALUE IS	1.14332 AT (	431931.66,	4248118.67,	180.80,	314.60, 0.00) DC
	3RD HIGHEST VALUE IS	1.10425 AT (	431731.66,	4248218.67,	180.80,	314.60, 0.00) DC
	4TH HIGHEST VALUE IS	1.06669 AT (	431842.99,	4248130.00,	173.50,	314.60, 0.00) DC
	5TH HIGHEST VALUE IS	1.06322 AT (	431692.99,	4248230.00,	180.70,	180.70, 0.00) DC
	6TH HIGHEST VALUE IS	1.00523 AT (	431831.66,	4248118.67,	172.80,	314.60, 0.00) DC
	7TH HIGHEST VALUE IS	0.92371 AT (	431642.99,	4248230.00,	176.60,	181.20, 0.00) DC
	8TH HIGHEST VALUE IS	0.92107 AT (	431892.99,	4248080.00,	172.80,	314.60, 0.00) DC
	9TH HIGHEST VALUE IS	0.91806 AT (	431742.99,	4248080.00,	172.80,	314.60, 0.00) DC
	10TH HIGHEST VALUE IS	0.89398 AT (	431592.99,	4248180.00,	172.80,	314.60, 0.00) DC

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



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*** AERMOD - VERSION 22112 *** *** Ethylene oxide - Institute ***
*** AERMET - VERSION 22112 *** *** Ethylene Oxide Distribution AND Polyox Processes ***
*** MODELOPTS: RegDFAULT 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 15 Warning Message(s)
A Total of 5 Informational Message(s)
A Total of 25 Hours Were Processed
A Total of 0 Calm Hours Identified
A Total of 3 Missing Hours Identified ( 12.00 Percent)
CAUTION!: Number of Missing Hours Exceeds 10 Percent of Total!
Data May Not Be Acceptable for Regulatory Applications.
See Section 5.3.2 of "Meteorological Monitoring Guidance
for Regulatory Modeling Applications" (EPA-454/R-99-005).

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

***** WARNING MESSAGES *****
SO W320 19 PPARM: Input Parameter May Be Out-of-Range for Parameter VS
SO W320 21 PPARM: Input Parameter May Be Out-of-Range for Parameter QS
ME W187 29 MEOPTEN: ADJ_U* Option for Stable Low Winds used in AERMET
OU W565 32 PERPLT: Possible Conflict with Dynamically Allocated FUNIT PLOTFILE
OU W565 44 PERPLT: Possible Conflict with Dynamically Allocated FUNIT PLOTFILE
OU W565 45 PERPLT: Possible Conflict with Dynamically Allocated FUNIT PLOTFILE
OU W565 46 PERPLT: Possible Conflict with Dynamically Allocated FUNIT PLOTFILE
OU W565 47 PERPLT: Possible Conflict with Dynamically Allocated FUNIT PLOTFILE
OU W565 48 PERPLT: Possible Conflict with Dynamically Allocated FUNIT PLOTFILE
OU W565 49 PERPLT: Possible Conflict with Dynamically Allocated FUNIT PLOTFILE
OU W565 50 PERPLT: Possible Conflict with Dynamically Allocated FUNIT PLOTFILE
OU W565 51 PERPLT: Possible Conflict with Dynamically Allocated FUNIT PLOTFILE
OU W565 52 PERPLT: Possible Conflict with Dynamically Allocated FUNIT PLOTFILE
OU W565 53 PERPLT: Possible Conflict with Dynamically Allocated FUNIT PLOTFILE
OU W565 54 PERPLT: Possible Conflict with Dynamically Allocated FUNIT PLOTFILE
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February Monitoring Event AERMOD Summary File: South Charleston

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*** AERMOD - VERSION 22112 *** *** Ethylene oxide - South Charleston, WV Feb 15-16, 2022 Monitoring Eve *** 08/23/22
*** AERMET - VERSION 22112 *** *** Oxide Adducts; Triton; Covestro; Chemical Mixing *** 14:56:16
*** MODELPTS: RegDFault CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U* *** 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.
* Option For Capped & Horiz Stacks Selected With:
  0 Capped Stack(s); and 3 Horizontal Stack(s)
* ADJ_U* - Use ADJ_U* option for SBL in AERMET
* Model Assumes No FLAGPOLE Receptor Heights.
* The User Specified a Pollutant Type of: OTHER

**Model Calculates PERIOD Averages Only

**This Run Includes: 119 Source(s); 33 Source Group(s); and 15537 Receptor(s)

with: 102 POINT(s), including 3 POINTHOR(s)
and: 0 POINTCAP(s) and
and: 15 VOLUME source(s)
and: 1 AREA type source(s)
and: 1 LINE source(s)
and: 0 RLINE/RLINEXT source(s)
and: 0 OPENPT 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: 22112

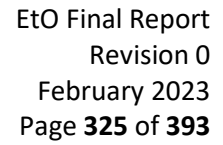
**Output Options Selected:
Model Outputs Tables of PERIOD Averages by Receptor
Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

**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) = 180.24 ; 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 = 20.5 MB of RAM.

**Input Runstream File: aermod.inp
**Output Print File: aermod.out
**Detailed Error/Message File: error.fil
**File for Summary of Results: Summary.sum
```

[illegible]

1.54, 3.09, 5.14, 8.23, 10.80,



*** AERMOD - VERSION 22112 *** *** Ethylene oxide - South Charleston, WV Feb 15-16, 2022 Monitoring Eve ***
*** AERMET - VERSION 22112 *** *** Oxide Adducts; Triton; Covestro; Chemical Mixing ***

08/23/22
14:56:16
PAGE 3

*** MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

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

Surface file: SC_Feb_22.SFC Met Version: 22112
Profile file: SC_Feb_22.PFL
Surface format: FREE
Profile Format: FREE
Surface station no.: 13866 Upper air station no.: 53829
Name: INSTITUTE/SOUTH CHARLESTON SITE, WV Name: UNKNOWN
Year: 2022 Year: 2022

First 24 hours of scalar data																						
YR	MO	DY	JDY	HR	HO	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O	LEN	ZO	BOWEN	ALBEDO	REF	WS	WD	HT	REF	TA	HT
22	02	15	46	01	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-999999.0	0.07	0.45	1.00	0.36	26.	7.9	278.5	7.9			
22	02	15	46	02	-1.7	0.056	-9.000	-9.000	-999.	32.	9.1	0.02	0.45	1.00	0.76	38.	7.9	279.0	7.9			
22	02	15	46	03	-2.3	0.061	-9.000	-9.000	-999.	37.	8.8	0.02	0.45	1.00	0.94	38.	7.9	279.1	7.9			
22	02	15	46	04	999.0	-9.000	-9.000	-9.000	-999.	-999999.0	0.02	0.45	1.00	0.98	37.	7.9	279.4	7.9				
22	02	15	46	05	-2.3	0.061	-9.000	-9.000	-999.	37.	8.8	0.02	0.45	1.00	0.94	33.	7.9	279.5	7.9			
22	02	15	46	06	-3.6	0.074	-9.000	-9.000	-999.	48.	9.8	0.02	0.45	1.00	1.21	50.	7.9	279.8	7.9			
22	02	15	46	07	-3.1	0.065	-9.000	-9.000	-999.	40.	8.0	0.01	0.45	1.00	1.30	62.	7.9	279.9	7.9			
22	02	15	46	08	-2.4	0.058	-9.000	-9.000	-999.	34.	7.5	0.01	0.45	0.69	1.12	66.	7.9	279.8	7.9			
22	02	15	46	09	-1.6	0.087	-9.000	-9.000	-999.	62.	37.2	0.01	0.45	0.35	1.65	68.	7.9	279.0	7.9			
22	02	15	46	10	0.1	0.078	0.022	0.014	4.	52.	-425.6	0.01	0.45	0.24	1.39	81.	7.9	276.8	7.9			
22	02	15	46	11	0.1	0.070	0.025	0.014	5.	45.	-312.8	0.01	0.45	0.20	1.25	78.	7.9	273.9	7.9			
22	02	15	46	12	0.1	0.066	0.027	0.015	7.	40.	-251.9	0.01	0.45	0.19	1.16	76.	7.9	275.5	7.9			
22	02	15	46	13	1.3	0.069	0.084	0.015	16.	43.	-21.6	0.01	0.45	0.18	1.12	66.	7.9	278.4	7.9			
22	02	15	46	14	1.8	0.055	0.104	0.016	23.	31.	-8.5	0.02	0.45	0.18	0.67	46.	7.9	280.5	7.9			
22	02	15	46	15	1.1	0.056	0.093	0.016	26.	32.	-14.7	0.02	0.45	0.19	0.72	39.	7.9	282.0	7.9			
22	02	15	46	16	0.1	0.045	0.042	0.016	26.	23.	-79.0	0.02	0.45	0.22	0.63	49.	7.9	283.4	7.9			
22	02	15	46	17	0.1	0.054	0.042	0.016	27.	30.	-137.8	0.01	0.45	0.29	0.94	78.	7.9	284.2	7.9			
22	02	15	46	18	-2.8	0.068	-9.000	-9.000	-999.	42.	10.1	0.02	0.45	0.52	1.12	50.	7.9	283.9	7.9			
22	02	15	46	19	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-999999.0	0.01	0.45	1.00	0.72	75.	7.9	281.0	7.9			
22	02	15	46	20	-1.7	0.052	-9.000	-9.000	-999.	29.	7.5	0.01	0.45	1.00	0.89	64.	7.9	278.1	7.9			
22	02	15	46	21	4.7	0.084	-9.000	-9.000	-999.	58.	11.1	0.02	0.45	1.00	1.39	59.	7.9	277.8	7.9			
22	02	15	46	22	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-999999.0	0.02	0.45	1.00	2.28	51.	7.9	276.9	7.9			
22	02	15	46	23	-14.8	0.151	-9.000	-9.000	-999.	141.	25.1	0.02	0.45	1.00	2.41	49.	7.9	276.0	7.9			
22	02	15	46	24	-13.7	0.145	-9.000	-9.000	-999.	133.	23.1	0.02	0.45	1.00	2.32	52.	7.9	275.4	7.9			

First hour of profile data
YR MO DY HR HEIGHT F WDIR WSPD AMB_TMP sigmaA sigmaW sigmaV
22 02 15 01 7.9 1 26. 0.36 278.6 99.0 -99.00 -99.00

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



*** AERMOD - VERSION 22112 *** *** Ethylene oxide - South Charleston, WV Feb 15-16, 2022 Monitoring Eve *** 08/23/22
*** AERMET - VERSION 22112 *** *** Oxide Adducts; Triton; Covestro; Chemical Mixing *** 14:56:16
*** MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U* PAGE 4

*** THE SUMMARY OF MAXIMUM PERIOD (25 HRS) RESULTS ***

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

GROUP ID		AVERAGE CONC		RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
CHMIX	1ST HIGHEST VALUE IS	0.07384 AT (	440177.01,	4246783.81,	183.60,	284.10, 0.00) DC
	2ND HIGHEST VALUE IS	0.04901 AT (	440127.01,	4246783.81,	183.20,	284.10, 0.00) DC
	3RD HIGHEST VALUE IS	0.04871 AT (	440127.01,	4246733.81,	181.10,	284.10, 0.00) DC
	4TH HIGHEST VALUE IS	0.04335 AT (	440115.68,	4246722.48,	180.20,	284.10, 0.00) DC
	5TH HIGHEST VALUE IS	0.03819 AT (	440077.01,	4246733.81,	181.70,	284.10, 0.00) DC
	6TH HIGHEST VALUE IS	0.03268 AT (	440077.01,	4246783.81,	182.10,	284.10, 0.00) DC
	7TH HIGHEST VALUE IS	0.02795 AT (	440077.01,	4246683.81,	180.30,	322.90, 0.00) DC
	8TH HIGHEST VALUE IS	0.02763 AT (	440027.01,	4246733.81,	183.10,	284.10, 0.00) DC
	9TH HIGHEST VALUE IS	0.02746 AT (	440119.85,	4246806.86,	183.40,	183.40, 0.00) DC
	10TH HIGHEST VALUE IS	0.02639 AT (	440015.68,	4246722.48,	182.70,	284.10, 0.00) DC
1RX	1ST HIGHEST VALUE IS	0.00000 AT (	0.00,	0.00,	0.00,	0.00, 0.00)
	2ND HIGHEST VALUE IS	0.00000 AT (	0.00,	0.00,	0.00,	0.00, 0.00)
	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)
2RX	1ST HIGHEST VALUE IS	0.00000 AT (	0.00,	0.00,	0.00,	0.00, 0.00)
	2ND HIGHEST VALUE IS	0.00000 AT (	0.00,	0.00,	0.00,	0.00, 0.00)
	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)
3RX	1ST HIGHEST VALUE IS	0.00000 AT (	0.00,	0.00,	0.00,	0.00, 0.00)
	2ND HIGHEST VALUE IS	0.00000 AT (	0.00,	0.00,	0.00,	0.00, 0.00)
	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)



*** AERMOD - VERSION 22112 *** *** Ethylene oxide - South Charleston, WV Feb 15-16, 2022 Monitoring Eve *** 08/23/22
*** AERMET - VERSION 22112 *** *** Oxide Adducts; Triton; Covestro; Chemical Mixing *** 14:56:16
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*** MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

*** THE SUMMARY OF MAXIMUM PERIOD (25 HRS) RESULTS ***

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

GROUP ID		AVERAGE CONC		RECEPTOR	(XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
789RX	1ST HIGHEST VALUE IS	0.12533 AT (	440115.68,	4247022.48,	173.10, 184.10,	0.00)	DC
	2ND HIGHEST VALUE IS	0.11946 AT (	440127.01,	4246983.81,	173.10, 184.10,	0.00)	DC
	3RD HIGHEST VALUE IS	0.09370 AT (	440177.01,	4246983.81,	173.10, 183.90,	0.00)	DC
	4TH HIGHEST VALUE IS	0.07869 AT (	440077.01,	4247033.81,	173.10, 184.70,	0.00)	DC
	5TH HIGHEST VALUE IS	0.06692 AT (	439963.24,	4246870.04,	184.50, 184.50,	0.00)	DC
	6TH HIGHEST VALUE IS	0.06124 AT (	439977.01,	4246833.81,	183.50, 183.50,	0.00)	DC
	7TH HIGHEST VALUE IS	0.06040 AT (	439927.01,	4246833.81,	183.60, 183.60,	0.00)	DC
	8TH HIGHEST VALUE IS	0.05907 AT (	439877.01,	4246933.81,	184.90, 184.90,	0.00)	DC
	9TH HIGHEST VALUE IS	0.05846 AT (	439915.68,	4246822.48,	183.20, 183.20,	0.00)	DC
	10TH HIGHEST VALUE IS	0.05419 AT (	440015.68,	4247022.48,	173.10, 184.90,	0.00)	DC
CPOINT	1ST HIGHEST VALUE IS	0.12533 AT (	440115.68,	4247022.48,	173.10, 184.10,	0.00)	DC
	2ND HIGHEST VALUE IS	0.11946 AT (	440127.01,	4246983.81,	173.10, 184.10,	0.00)	DC
	3RD HIGHEST VALUE IS	0.09370 AT (	440177.01,	4246983.81,	173.10, 183.90,	0.00)	DC
	4TH HIGHEST VALUE IS	0.07869 AT (	440077.01,	4247033.81,	173.10, 184.70,	0.00)	DC
	5TH HIGHEST VALUE IS	0.06692 AT (	439963.24,	4246870.04,	184.50, 184.50,	0.00)	DC
	6TH HIGHEST VALUE IS	0.06124 AT (	439977.01,	4246833.81,	183.50, 183.50,	0.00)	DC
	7TH HIGHEST VALUE IS	0.06040 AT (	439927.01,	4246833.81,	183.60, 183.60,	0.00)	DC
	8TH HIGHEST VALUE IS	0.05907 AT (	439877.01,	4246933.81,	184.90, 184.90,	0.00)	DC
	9TH HIGHEST VALUE IS	0.05846 AT (	439915.68,	4246822.48,	183.20, 183.20,	0.00)	DC
	10TH HIGHEST VALUE IS	0.05419 AT (	440015.68,	4247022.48,	173.10, 184.90,	0.00)	DC
CE003F	1ST HIGHEST VALUE IS	0.06503 AT (	439827.01,	4247133.81,	173.10, 185.00,	0.00)	DC
	2ND HIGHEST VALUE IS	0.05147 AT (	439527.01,	4246933.81,	183.60, 183.60,	0.00)	DC
	3RD HIGHEST VALUE IS	0.05040 AT (	439515.68,	4246922.48,	183.10, 183.10,	0.00)	DC
	4TH HIGHEST VALUE IS	0.04887 AT (	439777.01,	4247183.81,	173.10, 184.40,	0.00)	DC
	5TH HIGHEST VALUE IS	0.04880 AT (	439577.01,	4246933.81,	183.70, 183.70,	0.00)	DC
	6TH HIGHEST VALUE IS	0.04795 AT (	439477.01,	4246933.81,	183.40, 183.40,	0.00)	DC
	7TH HIGHEST VALUE IS	0.04386 AT (	439463.24,	4246870.04,	182.70, 182.70,	0.00)	DC
	8TH HIGHEST VALUE IS	0.04354 AT (	439477.01,	4246983.81,	184.70, 184.70,	0.00)	DC
	9TH HIGHEST VALUE IS	0.04205 AT (	439427.01,	4246933.81,	183.50, 183.50,	0.00)	DC
	10TH HIGHEST VALUE IS	0.04172 AT (	439415.68,	4246922.48,	183.20, 183.20,	0.00)	DC
CPIVF	1ST HIGHEST VALUE IS	0.30034 AT (	440115.68,	4247022.48,	173.10, 184.10,	0.00)	DC
	2ND HIGHEST VALUE IS	0.29454 AT (	440127.01,	4246983.81,	173.10, 184.10,	0.00)	DC
	3RD HIGHEST VALUE IS	0.19448 AT (	440177.01,	4246983.81,	173.10, 183.90,	0.00)	DC
	4TH HIGHEST VALUE IS	0.19413 AT (	440077.01,	4247033.81,	173.10, 184.70,	0.00)	DC
	5TH HIGHEST VALUE IS	0.17127 AT (	439963.24,	4246870.04,	184.50, 184.50,	0.00)	DC
	6TH HIGHEST VALUE IS	0.14737 AT (	439877.01,	4246933.81,	184.90, 184.90,	0.00)	DC
	7TH HIGHEST VALUE IS	0.14545 AT (	439927.01,	4246833.81,	183.60, 183.60,	0.00)	DC
	8TH HIGHEST VALUE IS	0.13842 AT (	439915.68,	4246822.48,	183.20, 183.20,	0.00)	DC
	9TH HIGHEST VALUE IS	0.13572 AT (	439877.01,	4246833.81,	183.10, 183.10,	0.00)	DC
	10TH HIGHEST VALUE IS	0.13516 AT (	440015.68,	4247022.48,	173.10, 184.90,	0.00)	DC



*** AERMOD - VERSION 22112 *** *** Ethylene oxide - South Charleston, WV Feb 15-16, 2022 Monitoring Eve *** 08/23/22
*** AERMET - VERSION 22112 *** *** Oxide Adducts; Triton; Covestro; Chemical Mixing *** 14:56:16
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*** MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

*** THE SUMMARY OF MAXIMUM PERIOD (25 HRS) RESULTS ***

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

GROUP ID		AVERAGE CONC		RECEPTOR	(XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
CFUGIT	1ST HIGHEST VALUE IS	0.30180 AT (	440115.68,	4247022.48,	173.10, 184.10,	0.00)	DC
	2ND HIGHEST VALUE IS	0.29586 AT (	440127.01,	4246983.81,	173.10, 184.10,	0.00)	DC
	3RD HIGHEST VALUE IS	0.19574 AT (	440077.01,	4247033.81,	173.10, 184.70,	0.00)	DC
	4TH HIGHEST VALUE IS	0.19571 AT (	440177.01,	4246983.81,	173.10, 183.90,	0.00)	DC
	5TH HIGHEST VALUE IS	0.17245 AT (	439963.24,	4246870.04,	184.50, 184.50,	0.00)	DC
	6TH HIGHEST VALUE IS	0.14873 AT (	439877.01,	4246933.81,	184.90, 184.90,	0.00)	DC
	7TH HIGHEST VALUE IS	0.14660 AT (	439927.01,	4246833.81,	183.60, 183.60,	0.00)	DC
	8TH HIGHEST VALUE IS	0.13959 AT (	439915.68,	4246822.48,	183.20, 183.20,	0.00)	DC
	9TH HIGHEST VALUE IS	0.13692 AT (	439877.01,	4246833.81,	183.10, 183.10,	0.00)	DC
	10TH HIGHEST VALUE IS	0.13687 AT (	440015.68,	4247022.48,	173.10, 184.90,	0.00)	DC
COVESTRO	1ST HIGHEST VALUE IS	0.42713 AT (	440115.68,	4247022.48,	173.10, 184.10,	0.00)	DC
	2ND HIGHEST VALUE IS	0.41532 AT (	440127.01,	4246983.81,	173.10, 184.10,	0.00)	DC
	3RD HIGHEST VALUE IS	0.28940 AT (	440177.01,	4246983.81,	173.10, 183.90,	0.00)	DC
	4TH HIGHEST VALUE IS	0.27443 AT (	440077.01,	4247033.81,	173.10, 184.70,	0.00)	DC
	5TH HIGHEST VALUE IS	0.23936 AT (	439963.24,	4246870.04,	184.50, 184.50,	0.00)	DC
	6TH HIGHEST VALUE IS	0.20780 AT (	439877.01,	4246933.81,	184.90, 184.90,	0.00)	DC
	7TH HIGHEST VALUE IS	0.20701 AT (	439927.01,	4246833.81,	183.60, 183.60,	0.00)	DC
	8TH HIGHEST VALUE IS	0.19805 AT (	439915.68,	4246822.48,	183.20, 183.20,	0.00)	DC
	9TH HIGHEST VALUE IS	0.19519 AT (	439977.01,	4246833.81,	183.50, 183.50,	0.00)	DC
	10TH HIGHEST VALUE IS	0.19106 AT (	440015.68,	4247022.48,	173.10, 184.90,	0.00)	DC
TE10813	1ST HIGHEST VALUE IS	0.01579 AT (	439877.01,	4246933.81,	184.90, 184.90,	0.00)	DC
	2ND HIGHEST VALUE IS	0.01553 AT (	439777.01,	4246833.81,	183.00, 183.00,	0.00)	DC
	3RD HIGHEST VALUE IS	0.01545 AT (	439727.01,	4246833.81,	183.20, 183.20,	0.00)	DC
	4TH HIGHEST VALUE IS	0.01538 AT (	439715.68,	4246822.48,	183.10, 183.10,	0.00)	DC
	5TH HIGHEST VALUE IS	0.01521 AT (	439827.01,	4246933.81,	186.10, 186.10,	0.00)	DC
	6TH HIGHEST VALUE IS	0.01511 AT (	439677.01,	4246783.81,	182.70, 182.70,	0.00)	DC
	7TH HIGHEST VALUE IS	0.01497 AT (	439727.01,	4246783.81,	182.60, 182.60,	0.00)	DC
	8TH HIGHEST VALUE IS	0.01469 AT (	439627.01,	4246733.81,	182.40, 182.40,	0.00)	DC
	9TH HIGHEST VALUE IS	0.01459 AT (	439615.68,	4246722.48,	182.30, 182.30,	0.00)	DC
	10TH HIGHEST VALUE IS	0.01454 AT (	439627.01,	4246783.81,	182.40, 182.40,	0.00)	DC
T_L_ALL	1ST HIGHEST VALUE IS	0.03847 AT (	439927.01,	4247083.81,	173.10, 185.00,	0.00)	DC
	2ND HIGHEST VALUE IS	0.03747 AT (	439977.01,	4247083.81,	173.10, 184.70,	0.00)	DC
	3RD HIGHEST VALUE IS	0.03078 AT (	439915.68,	4247122.48,	173.10, 184.60,	0.00)	DC
	4TH HIGHEST VALUE IS	0.01288 AT (	439677.01,	4246933.81,	184.20, 184.20,	0.00)	DC
	5TH HIGHEST VALUE IS	0.01282 AT (	439827.01,	4246933.81,	186.10, 186.10,	0.00)	DC
	6TH HIGHEST VALUE IS	0.01268 AT (	439877.01,	4247133.81,	173.10, 184.90,	0.00)	DC
	7TH HIGHEST VALUE IS	0.01177 AT (	439713.24,	4246870.04,	183.20, 183.20,	0.00)	DC
	8TH HIGHEST VALUE IS	0.01135 AT (	439627.01,	4246933.81,	183.80, 183.80,	0.00)	DC
	9TH HIGHEST VALUE IS	0.01081 AT (	439615.68,	4246922.48,	183.70, 183.70,	0.00)	DC
	10TH HIGHEST VALUE IS	0.01073 AT (	439577.01,	4246933.81,	183.70, 183.70,	0.00)	DC



*** AERMOD - VERSION 22112 *** *** Ethylene oxide - South Charleston, WV Feb 15-16, 2022 Monitoring Eve *** 08/23/22
*** AERMET - VERSION 22112 *** *** Oxide Adducts; Triton; Covestro; Chemical Mixing *** 14:56:16
*** MODELOPTS: RegDFault CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U* PAGE 7

*** THE SUMMARY OF MAXIMUM PERIOD (25 HRS) RESULTS ***

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

GROUP ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
T_TALL	1ST HIGHEST VALUE IS 0.02885 AT (439927.01, 4247083.81, 173.10, 185.00, 0.00) DC			
	2ND HIGHEST VALUE IS 0.02584 AT (439915.68, 4247122.48, 173.10, 184.60, 0.00) DC			
	3RD HIGHEST VALUE IS 0.02275 AT (439977.01, 4247083.81, 173.10, 184.70, 0.00) DC			
	4TH HIGHEST VALUE IS 0.01862 AT (439877.01, 4247133.81, 173.10, 184.90, 0.00) DC			
	5TH HIGHEST VALUE IS 0.01857 AT (439677.01, 4246933.81, 184.20, 184.20, 0.00) DC			
	6TH HIGHEST VALUE IS 0.01597 AT (439627.01, 4246933.81, 183.80, 183.80, 0.00) DC			
	7TH HIGHEST VALUE IS 0.01576 AT (439615.68, 4246922.48, 183.70, 183.70, 0.00) DC			
	8TH HIGHEST VALUE IS 0.01562 AT (439627.01, 4246833.81, 182.70, 182.70, 0.00) DC			
	9TH HIGHEST VALUE IS 0.01555 AT (439713.24, 4246870.04, 183.20, 183.20, 0.00) DC			
	10TH HIGHEST VALUE IS 0.01545 AT (439577.01, 4246833.81, 182.80, 182.80, 0.00) DC			
T_POINT	1ST HIGHEST VALUE IS 0.07378 AT (439927.01, 4247083.81, 173.10, 185.00, 0.00) DC			
	2ND HIGHEST VALUE IS 0.06738 AT (439977.01, 4247083.81, 173.10, 184.70, 0.00) DC			
	3RD HIGHEST VALUE IS 0.06124 AT (439915.68, 4247122.48, 173.10, 184.60, 0.00) DC			
	4TH HIGHEST VALUE IS 0.04185 AT (439827.01, 4246933.81, 186.10, 186.10, 0.00) DC			
	5TH HIGHEST VALUE IS 0.04155 AT (439713.24, 4246870.04, 183.20, 183.20, 0.00) DC			
	6TH HIGHEST VALUE IS 0.04145 AT (439677.01, 4246933.81, 184.20, 184.20, 0.00) DC			
	7TH HIGHEST VALUE IS 0.03884 AT (439627.01, 4246833.81, 182.70, 182.70, 0.00) DC			
	8TH HIGHEST VALUE IS 0.03851 AT (439677.01, 4246833.81, 182.80, 182.80, 0.00) DC			
	9TH HIGHEST VALUE IS 0.03810 AT (439615.68, 4246822.48, 182.60, 182.60, 0.00) DC			
	10TH HIGHEST VALUE IS 0.03724 AT (439619.85, 4246806.86, 182.60, 182.60, 0.00) DC			
THF	1ST HIGHEST VALUE IS 0.01627 AT (439915.68, 4247122.48, 173.10, 184.60, 0.00) DC			
	2ND HIGHEST VALUE IS 0.01444 AT (439927.01, 4247083.81, 173.10, 185.00, 0.00) DC			
	3RD HIGHEST VALUE IS 0.01323 AT (439877.01, 4247133.81, 173.10, 184.90, 0.00) DC			
	4TH HIGHEST VALUE IS 0.01163 AT (439977.01, 4247083.81, 173.10, 184.70, 0.00) DC			
	5TH HIGHEST VALUE IS 0.00805 AT (439827.01, 4247133.81, 173.10, 185.00, 0.00) DC			
	6TH HIGHEST VALUE IS 0.00635 AT (440077.01, 4247283.81, 173.10, 272.80, 0.00) DC			
	7TH HIGHEST VALUE IS 0.00512 AT (439677.01, 4246933.81, 184.20, 184.20, 0.00) DC			
	8TH HIGHEST VALUE IS 0.00459 AT (439713.24, 4246870.04, 183.20, 183.20, 0.00) DC			
	9TH HIGHEST VALUE IS 0.00438 AT (439827.01, 4246933.81, 186.10, 186.10, 0.00) DC			
	10TH HIGHEST VALUE IS 0.00438 AT (439477.01, 4246983.81, 184.70, 184.70, 0.00) DC			
TRF	1ST HIGHEST VALUE IS 0.01643 AT (439977.01, 4247083.81, 173.10, 184.70, 0.00) DC			
	2ND HIGHEST VALUE IS 0.01207 AT (439927.01, 4247083.81, 173.10, 185.00, 0.00) DC			
	3RD HIGHEST VALUE IS 0.01177 AT (439827.01, 4246933.81, 186.10, 186.10, 0.00) DC			
	4TH HIGHEST VALUE IS 0.01052 AT (439713.24, 4246870.04, 183.20, 183.20, 0.00) DC			
	5TH HIGHEST VALUE IS 0.00950 AT (439677.01, 4246933.81, 184.20, 184.20, 0.00) DC			
	6TH HIGHEST VALUE IS 0.00940 AT (439677.01, 4246833.81, 182.80, 182.80, 0.00) DC			
	7TH HIGHEST VALUE IS 0.00915 AT (439627.01, 4246833.81, 182.70, 182.70, 0.00) DC			
	8TH HIGHEST VALUE IS 0.00890 AT (439615.68, 4246822.48, 182.60, 182.60, 0.00) DC			
	9TH HIGHEST VALUE IS 0.00868 AT (439619.85, 4246806.86, 182.60, 182.60, 0.00) DC			
	10TH HIGHEST VALUE IS 0.00865 AT (439627.01, 4246933.81, 183.80, 183.80, 0.00) DC			



*** AERMOD - VERSION 22112 ***									
*** Oxide Adducts; Triton; Covestro; Chemical Mixing ***									
*** Ethylene oxide - South Charleston, WV Feb 15-16, 2022 Monitoring Eve ***									
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*** MODELPTS: RegDFault CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*									
*** THE SUMMARY OF MAXIMUM PERIOD (25 HRS) RESULTS ***									
** CONC OF OTHER IN MICROGRAMS/M**3 **									
GROUP ID	AVERAGE CONC		RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)					OF TYPE	NETWORK GRID-ID
TFNC	1ST HIGHEST VALUE IS	0.02353 AT (	439777.01,	4247183.81,	173.10,	184.40,	0.00)	DC	
	2ND HIGHEST VALUE IS	0.02218 AT (	439827.01,	4247133.81,	173.10,	185.00,	0.00)	DC	
	3RD HIGHEST VALUE IS	0.01227 AT (	439727.01,	4247183.81,	173.10,	311.00,	0.00)	DC	
	4TH HIGHEST VALUE IS	0.00811 AT (	439877.01,	4247133.81,	173.10,	184.90,	0.00)	DC	
	5TH HIGHEST VALUE IS	0.00738 AT (	439427.01,	4247033.81,	185.80,	185.80,	0.00)	DC	
	6TH HIGHEST VALUE IS	0.00737 AT (	439477.01,	4247083.81,	184.60,	184.60,	0.00)	DC	
	7TH HIGHEST VALUE IS	0.00732 AT (	439477.01,	4247033.81,	184.90,	184.90,	0.00)	DC	
	8TH HIGHEST VALUE IS	0.00702 AT (	440015.68,	4247322.48,	173.10,	327.10,	0.00)	DC	
	9TH HIGHEST VALUE IS	0.00701 AT (	439415.68,	4247022.48,	185.80,	185.80,	0.00)	DC	
	10TH HIGHEST VALUE IS	0.00678 AT (	439577.01,	4246933.81,	183.70,	183.70,	0.00)	DC	
T_FUGIT	1ST HIGHEST VALUE IS	0.03372 AT (	439827.01,	4247133.81,	173.10,	185.00,	0.00)	DC	
	2ND HIGHEST VALUE IS	0.02870 AT (	439977.01,	4247083.81,	173.10,	184.70,	0.00)	DC	
	3RD HIGHEST VALUE IS	0.02709 AT (	439927.01,	4247083.81,	173.10,	185.00,	0.00)	DC	
	4TH HIGHEST VALUE IS	0.02621 AT (	439877.01,	4247133.81,	173.10,	184.90,	0.00)	DC	
	5TH HIGHEST VALUE IS	0.02508 AT (	439915.68,	4247122.48,	173.10,	184.60,	0.00)	DC	
	6TH HIGHEST VALUE IS	0.02479 AT (	439777.01,	4247183.81,	173.10,	184.40,	0.00)	DC	
	7TH HIGHEST VALUE IS	0.01876 AT (	439577.01,	4246933.81,	183.70,	183.70,	0.00)	DC	
	8TH HIGHEST VALUE IS	0.01863 AT (	439627.01,	4246933.81,	183.80,	183.80,	0.00)	DC	
	9TH HIGHEST VALUE IS	0.01801 AT (	439615.68,	4246922.48,	183.70,	183.70,	0.00)	DC	
	10TH HIGHEST VALUE IS	0.01789 AT (	439527.01,	4246933.81,	183.60,	183.60,	0.00)	DC	
TRITON	1ST HIGHEST VALUE IS	0.10088 AT (	439927.01,	4247083.81,	173.10,	185.00,	0.00)	DC	
	2ND HIGHEST VALUE IS	0.09608 AT (	439977.01,	4247083.81,	173.10,	184.70,	0.00)	DC	
	3RD HIGHEST VALUE IS	0.08632 AT (	439915.68,	4247122.48,	173.10,	184.60,	0.00)	DC	
	4TH HIGHEST VALUE IS	0.06207 AT (	439877.01,	4247133.81,	173.10,	184.90,	0.00)	DC	
	5TH HIGHEST VALUE IS	0.05916 AT (	439677.01,	4246933.81,	184.20,	184.20,	0.00)	DC	
	6TH HIGHEST VALUE IS	0.05828 AT (	439827.01,	4247133.81,	173.10,	185.00,	0.00)	DC	
	7TH HIGHEST VALUE IS	0.05820 AT (	439827.01,	4246933.81,	186.10,	186.10,	0.00)	DC	
	8TH HIGHEST VALUE IS	0.05737 AT (	439713.24,	4246870.04,	183.20,	183.20,	0.00)	DC	
	9TH HIGHEST VALUE IS	0.05495 AT (	439627.01,	4246933.81,	183.80,	183.80,	0.00)	DC	
	10TH HIGHEST VALUE IS	0.05360 AT (	439615.68,	4246922.48,	183.70,	183.70,	0.00)	DC	
OA_E70XP	1ST HIGHEST VALUE IS	0.43980 AT (	439327.01,	4246833.81,	182.70,	182.70,	0.00)	DC	
	2ND HIGHEST VALUE IS	0.42959 AT (	439315.68,	4246822.48,	182.30,	182.30,	0.00)	DC	
	3RD HIGHEST VALUE IS	0.40961 AT (	439277.01,	4246783.81,	181.90,	181.90,	0.00)	DC	
	4TH HIGHEST VALUE IS	0.40351 AT (	439477.01,	4246933.81,	183.40,	183.40,	0.00)	DC	
	5TH HIGHEST VALUE IS	0.39684 AT (	439227.01,	4246783.81,	182.40,	182.40,	0.00)	DC	
	6TH HIGHEST VALUE IS	0.39581 AT (	439415.68,	4246922.48,	183.20,	183.20,	0.00)	DC	
	7TH HIGHEST VALUE IS	0.39480 AT (	439377.01,	4246833.81,	182.30,	182.30,	0.00)	DC	
	8TH HIGHEST VALUE IS	0.38676 AT (	439277.01,	4246833.81,	182.50,	182.50,	0.00)	DC	
	9TH HIGHEST VALUE IS	0.38560 AT (	439227.01,	4246733.81,	182.10,	182.10,	0.00)	DC	
	10TH HIGHEST VALUE IS	0.38367 AT (	439427.01,	4246933.81,	183.50,	183.50,	0.00)	DC	



*** AERMOD - VERSION 22112 ***									
*** AERMET - VERSION 22112 ***									
*** Ethylene oxide - South Charleston, WV Feb 15-16, 2022 Monitoring Eve ***									
*** Oxide Adducts; Triton; Covestro; Chemical Mixing ***									
*** MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*									
*** THE SUMMARY OF MAXIMUM PERIOD (25 HRS) RESULTS ***									
** CONC OF OTHER IN MICROGRAMS/M**3 **									
GROUP ID	AVERAGE CONC		RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)					OF TYPE	NETWORK GRID-ID
OA_TALLP	1ST HIGHEST VALUE IS	0.01397	AT (	439477.01,	4246983.81,	184.70,	184.70,	0.00)	DC
	2ND HIGHEST VALUE IS	0.01241	AT (	439477.01,	4246933.81,	183.40,	183.40,	0.00)	DC
	3RD HIGHEST VALUE IS	0.01236	AT (	439427.01,	4246933.81,	183.50,	183.50,	0.00)	DC
	4TH HIGHEST VALUE IS	0.01189	AT (	439415.68,	4246922.48,	183.20,	183.20,	0.00)	DC
	5TH HIGHEST VALUE IS	0.01133	AT (	439427.01,	4246983.81,	184.50,	184.50,	0.00)	DC
	6TH HIGHEST VALUE IS	0.01086	AT (	439477.01,	4247033.81,	184.90,	184.90,	0.00)	DC
	7TH HIGHEST VALUE IS	0.01078	AT (	439527.01,	4246933.81,	183.60,	183.60,	0.00)	DC
	8TH HIGHEST VALUE IS	0.01066	AT (	439377.01,	4246933.81,	183.40,	183.40,	0.00)	DC
	9TH HIGHEST VALUE IS	0.01024	AT (	439315.68,	4246922.48,	183.10,	183.10,	0.00)	DC
	10TH HIGHEST VALUE IS	0.00918	AT (	439327.01,	4246833.81,	182.70,	182.70,	0.00)	DC
OA_LALLP	1ST HIGHEST VALUE IS	0.00256	AT (	439477.01,	4246983.81,	184.70,	184.70,	0.00)	DC
	2ND HIGHEST VALUE IS	0.00187	AT (	439427.01,	4246983.81,	184.50,	184.50,	0.00)	DC
	3RD HIGHEST VALUE IS	0.00164	AT (	439477.01,	4247033.81,	184.90,	184.90,	0.00)	DC
	4TH HIGHEST VALUE IS	0.00151	AT (	439427.01,	4246933.81,	183.50,	183.50,	0.00)	DC
	5TH HIGHEST VALUE IS	0.00150	AT (	439477.01,	4246933.81,	183.40,	183.40,	0.00)	DC
	6TH HIGHEST VALUE IS	0.00136	AT (	439415.68,	4246922.48,	183.20,	183.20,	0.00)	DC
	7TH HIGHEST VALUE IS	0.00126	AT (	439377.01,	4246983.81,	184.30,	184.30,	0.00)	DC
	8TH HIGHEST VALUE IS	0.00121	AT (	439377.01,	4246933.81,	183.40,	183.40,	0.00)	DC
	9TH HIGHEST VALUE IS	0.00105	AT (	439327.01,	4246933.81,	183.50,	183.50,	0.00)	DC
	10TH HIGHEST VALUE IS	0.00096	AT (	439315.68,	4246922.48,	183.20,	183.20,	0.00)	DC
OA_POINT	1ST HIGHEST VALUE IS	0.44972	AT (	439327.01,	4246833.81,	182.70,	182.70,	0.00)	DC
	2ND HIGHEST VALUE IS	0.43903	AT (	439315.68,	4246822.48,	182.30,	182.30,	0.00)	DC
	3RD HIGHEST VALUE IS	0.41788	AT (	439277.01,	4246783.81,	181.90,	181.90,	0.00)	DC
	4TH HIGHEST VALUE IS	0.41741	AT (	439477.01,	4246933.81,	183.40,	183.40,	0.00)	DC
	5TH HIGHEST VALUE IS	0.40907	AT (	439415.68,	4246922.48,	183.20,	183.20,	0.00)	DC
	6TH HIGHEST VALUE IS	0.40502	AT (	439227.01,	4246783.81,	182.40,	182.40,	0.00)	DC
	7TH HIGHEST VALUE IS	0.40412	AT (	439377.01,	4246833.81,	182.30,	182.30,	0.00)	DC
	8TH HIGHEST VALUE IS	0.39754	AT (	439427.01,	4246933.81,	183.50,	183.50,	0.00)	DC
	9TH HIGHEST VALUE IS	0.39607	AT (	439277.01,	4246833.81,	182.50,	182.50,	0.00)	DC
	10TH HIGHEST VALUE IS	0.39279	AT (	439227.01,	4246733.81,	182.10,	182.10,	0.00)	DC
OAHZ2F	1ST HIGHEST VALUE IS	0.13472	AT (	439477.01,	4246983.81,	184.70,	184.70,	0.00)	DC
	2ND HIGHEST VALUE IS	0.12755	AT (	439477.01,	4247033.81,	184.90,	184.90,	0.00)	DC
	3RD HIGHEST VALUE IS	0.10961	AT (	439427.01,	4246983.81,	184.50,	184.50,	0.00)	DC
	4TH HIGHEST VALUE IS	0.10895	AT (	439477.01,	4246933.81,	183.40,	183.40,	0.00)	DC
	5TH HIGHEST VALUE IS	0.10076	AT (	439427.01,	4246933.81,	183.50,	183.50,	0.00)	DC
	6TH HIGHEST VALUE IS	0.09472	AT (	439415.68,	4246922.48,	183.20,	183.20,	0.00)	DC
	7TH HIGHEST VALUE IS	0.08957	AT (	439377.01,	4246983.81,	184.30,	184.30,	0.00)	DC
	8TH HIGHEST VALUE IS	0.08920	AT (	439415.68,	4247022.48,	185.80,	185.80,	0.00)	DC
	9TH HIGHEST VALUE IS	0.08587	AT (	439427.01,	4247033.81,	185.80,	185.80,	0.00)	DC
	10TH HIGHEST VALUE IS	0.08583	AT (	439377.01,	4246933.81,	183.40,	183.40,	0.00)	DC



*** AERMOD - VERSION 22112 *** *** Ethylene oxide - South Charleston, WV Feb 15-16, 2022 Monitoring Eve *** 08/23/22
*** AERMET - VERSION 22112 *** *** Oxide Adducts; Triton; Covestro; Chemical Mixing *** 14:56:16
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*** MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

*** THE SUMMARY OF MAXIMUM PERIOD (25 HRS) RESULTS ***

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

GROUP ID		AVERAGE CONC		RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
OAR45F	1ST HIGHEST VALUE IS	0.13043	AT (	439477.01, 4246983.81, 184.70, 184.70, 0.00)	DC	
	2ND HIGHEST VALUE IS	0.12375	AT (	439427.01, 4246983.81, 184.50, 184.50, 0.00)	DC	
	3RD HIGHEST VALUE IS	0.12329	AT (	439477.01, 4247033.81, 184.90, 184.90, 0.00)	DC	
	4TH HIGHEST VALUE IS	0.11165	AT (	439377.01, 4246933.81, 183.40, 183.40, 0.00)	DC	
	5TH HIGHEST VALUE IS	0.10685	AT (	439427.01, 4246933.81, 183.50, 183.50, 0.00)	DC	
	6TH HIGHEST VALUE IS	0.10118	AT (	439415.68, 4246922.48, 183.20, 183.20, 0.00)	DC	
	7TH HIGHEST VALUE IS	0.09933	AT (	439377.01, 4246983.81, 184.30, 184.30, 0.00)	DC	
	8TH HIGHEST VALUE IS	0.09658	AT (	439327.01, 4246933.81, 183.50, 183.50, 0.00)	DC	
	9TH HIGHEST VALUE IS	0.09580	AT (	439415.68, 4247022.48, 185.80, 185.80, 0.00)	DC	
	10TH HIGHEST VALUE IS	0.09501	AT (	439427.01, 4247033.81, 185.80, 185.80, 0.00)	DC	
OAR6F	1ST HIGHEST VALUE IS	0.03698	AT (	439477.01, 4246983.81, 184.70, 184.70, 0.00)	DC	
	2ND HIGHEST VALUE IS	0.03107	AT (	439477.01, 4246933.81, 183.40, 183.40, 0.00)	DC	
	3RD HIGHEST VALUE IS	0.02967	AT (	439427.01, 4246933.81, 183.50, 183.50, 0.00)	DC	
	4TH HIGHEST VALUE IS	0.02804	AT (	439427.01, 4246983.81, 184.50, 184.50, 0.00)	DC	
	5TH HIGHEST VALUE IS	0.02793	AT (	439415.68, 4246922.48, 183.20, 183.20, 0.00)	DC	
	6TH HIGHEST VALUE IS	0.02404	AT (	439377.01, 4246933.81, 183.40, 183.40, 0.00)	DC	
	7TH HIGHEST VALUE IS	0.02392	AT (	439477.01, 4247033.81, 184.90, 184.90, 0.00)	DC	
	8TH HIGHEST VALUE IS	0.02166	AT (	439377.01, 4246983.81, 184.30, 184.30, 0.00)	DC	
	9TH HIGHEST VALUE IS	0.02039	AT (	439327.01, 4246933.81, 183.50, 183.50, 0.00)	DC	
	10TH HIGHEST VALUE IS	0.01975	AT (	439527.01, 4246933.81, 183.60, 183.60, 0.00)	DC	
OAR7F	1ST HIGHEST VALUE IS	0.01367	AT (	439477.01, 4246983.81, 184.70, 184.70, 0.00)	DC	
	2ND HIGHEST VALUE IS	0.01240	AT (	439477.01, 4246933.81, 183.40, 183.40, 0.00)	DC	
	3RD HIGHEST VALUE IS	0.01124	AT (	439427.01, 4246933.81, 183.50, 183.50, 0.00)	DC	
	4TH HIGHEST VALUE IS	0.01084	AT (	439427.01, 4246983.81, 184.50, 184.50, 0.00)	DC	
	5TH HIGHEST VALUE IS	0.01064	AT (	439415.68, 4246922.48, 183.20, 183.20, 0.00)	DC	
	6TH HIGHEST VALUE IS	0.00997	AT (	439477.01, 4247033.81, 184.90, 184.90, 0.00)	DC	
	7TH HIGHEST VALUE IS	0.00975	AT (	439527.01, 4246933.81, 183.60, 183.60, 0.00)	DC	
	8TH HIGHEST VALUE IS	0.00929	AT (	439377.01, 4246933.81, 183.40, 183.40, 0.00)	DC	
	9TH HIGHEST VALUE IS	0.00892	AT (	439515.68, 4246922.48, 183.10, 183.10, 0.00)	DC	
	10TH HIGHEST VALUE IS	0.00883	AT (	439377.01, 4246983.81, 184.30, 184.30, 0.00)	DC	
OAWTLF	1ST HIGHEST VALUE IS	0.07777	AT (	439227.01, 4247333.81, 173.00, 327.10, 0.00)	DC	
	2ND HIGHEST VALUE IS	0.07324	AT (	439177.01, 4247333.81, 173.00, 327.10, 0.00)	DC	
	3RD HIGHEST VALUE IS	0.06925	AT (	439127.01, 4247333.81, 173.00, 327.10, 0.00)	DC	
	4TH HIGHEST VALUE IS	0.06906	AT (	439477.01, 4247283.81, 173.00, 327.10, 0.00)	DC	
	5TH HIGHEST VALUE IS	0.06895	AT (	439427.01, 4247283.81, 173.00, 327.10, 0.00)	DC	
	6TH HIGHEST VALUE IS	0.06717	AT (	439127.01, 4247283.81, 183.10, 311.30, 0.00)	DC	
	7TH HIGHEST VALUE IS	0.06645	AT (	439377.01, 4247283.81, 173.00, 327.10, 0.00)	DC	
	8TH HIGHEST VALUE IS	0.06586	AT (	439177.01, 4247283.81, 177.90, 327.10, 0.00)	DC	
	9TH HIGHEST VALUE IS	0.06424	AT (	439115.68, 4247322.48, 173.00, 327.10, 0.00)	DC	
	10TH HIGHEST VALUE IS	0.06411	AT (	439077.01, 4247283.81, 183.50, 311.30, 0.00)	DC	



*** AERMOD - VERSION 22112 *** *** Ethylene oxide - South Charleston, WV Feb 15-16, 2022 Monitoring Eve *** 08/23/22
*** AERMET - VERSION 22112 *** *** Oxide Adducts; Triton; Covestro; Chemical Mixing *** 14:56:16
*** MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U* PAGE 11

*** THE SUMMARY OF MAXIMUM PERIOD (25 HRS) RESULTS ***

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

GROUP ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
OA_LIBF	1ST HIGHEST VALUE IS 0.27358 AT (439715.68, 4247222.48, 173.10, 327.10, 0.00)	DC		
	2ND HIGHEST VALUE IS 0.11838 AT (439727.01, 4247183.81, 173.10, 311.00, 0.00)	DC		
	3RD HIGHEST VALUE IS 0.04874 AT (439527.01, 4247133.81, 184.50, 184.50, 0.00)	DC		
	4TH HIGHEST VALUE IS 0.04421 AT (439515.68, 4247122.48, 184.70, 184.70, 0.00)	DC		
	5TH HIGHEST VALUE IS 0.03723 AT (439463.24, 4247120.04, 184.60, 184.60, 0.00)	DC		
	6TH HIGHEST VALUE IS 0.03608 AT (439477.01, 4247133.81, 184.60, 184.60, 0.00)	DC		
	7TH HIGHEST VALUE IS 0.03311 AT (439477.01, 4247033.81, 184.90, 184.90, 0.00)	DC		
	8TH HIGHEST VALUE IS 0.03289 AT (439477.01, 4247083.81, 184.60, 184.60, 0.00)	DC		
	9TH HIGHEST VALUE IS 0.03072 AT (439427.01, 4247083.81, 185.10, 185.10, 0.00)	DC		
	10TH HIGHEST VALUE IS 0.02712 AT (439527.01, 4247183.81, 177.00, 311.30, 0.00)	DC		
OA_FUGIT	1ST HIGHEST VALUE IS 0.34019 AT (439477.01, 4246983.81, 184.70, 184.70, 0.00)	DC		
	2ND HIGHEST VALUE IS 0.31784 AT (439477.01, 4247033.81, 184.90, 184.90, 0.00)	DC		
	3RD HIGHEST VALUE IS 0.30650 AT (439715.68, 4247222.48, 173.10, 327.10, 0.00)	DC		
	4TH HIGHEST VALUE IS 0.29900 AT (439427.01, 4246983.81, 184.50, 184.50, 0.00)	DC		
	5TH HIGHEST VALUE IS 0.26801 AT (439427.01, 4246933.81, 183.50, 183.50, 0.00)	DC		
	6TH HIGHEST VALUE IS 0.25306 AT (439415.68, 4246922.48, 183.20, 183.20, 0.00)	DC		
	7TH HIGHEST VALUE IS 0.25292 AT (439377.01, 4246933.81, 183.40, 183.40, 0.00)	DC		
	8TH HIGHEST VALUE IS 0.24205 AT (439377.01, 4246983.81, 184.30, 184.30, 0.00)	DC		
	9TH HIGHEST VALUE IS 0.23410 AT (439477.01, 4246933.81, 183.40, 183.40, 0.00)	DC		
	10TH HIGHEST VALUE IS 0.23212 AT (439415.68, 4247022.48, 185.80, 185.80, 0.00)	DC		
OA_ALL	1ST HIGHEST VALUE IS 0.66555 AT (439427.01, 4246933.81, 183.50, 183.50, 0.00)	DC		
	2ND HIGHEST VALUE IS 0.66213 AT (439415.68, 4246922.48, 183.20, 183.20, 0.00)	DC		
	3RD HIGHEST VALUE IS 0.65151 AT (439477.01, 4246933.81, 183.40, 183.40, 0.00)	DC		
	4TH HIGHEST VALUE IS 0.64036 AT (439477.01, 4246983.81, 184.70, 184.70, 0.00)	DC		
	5TH HIGHEST VALUE IS 0.61808 AT (439327.01, 4246833.81, 182.70, 182.70, 0.00)	DC		
	6TH HIGHEST VALUE IS 0.59828 AT (439315.68, 4246822.48, 182.30, 182.30, 0.00)	DC		
	7TH HIGHEST VALUE IS 0.56581 AT (439277.01, 4246833.81, 182.50, 182.50, 0.00)	DC		
	8TH HIGHEST VALUE IS 0.55402 AT (439277.01, 4246783.81, 181.90, 181.90, 0.00)	DC		
	9TH HIGHEST VALUE IS 0.54759 AT (439227.01, 4246783.81, 182.40, 182.40, 0.00)	DC		
	10TH HIGHEST VALUE IS 0.54524 AT (439377.01, 4246833.81, 182.30, 182.30, 0.00)	DC		
UCC_SC	1ST HIGHEST VALUE IS 0.70751 AT (439427.01, 4246933.81, 183.50, 183.50, 0.00)	DC		
	2ND HIGHEST VALUE IS 0.70372 AT (439415.68, 4246922.48, 183.20, 183.20, 0.00)	DC		
	3RD HIGHEST VALUE IS 0.69734 AT (439477.01, 4246933.81, 183.40, 183.40, 0.00)	DC		
	4TH HIGHEST VALUE IS 0.68189 AT (439477.01, 4246983.81, 184.70, 184.70, 0.00)	DC		
	5TH HIGHEST VALUE IS 0.65312 AT (439327.01, 4246833.81, 182.70, 182.70, 0.00)	DC		
	6TH HIGHEST VALUE IS 0.63257 AT (439315.68, 4246822.48, 182.30, 182.30, 0.00)	DC		
	7TH HIGHEST VALUE IS 0.59970 AT (439277.01, 4246833.81, 182.50, 182.50, 0.00)	DC		
	8TH HIGHEST VALUE IS 0.58538 AT (439277.01, 4246783.81, 181.90, 181.90, 0.00)	DC		
	9TH HIGHEST VALUE IS 0.58190 AT (439377.01, 4246833.81, 182.30, 182.30, 0.00)	DC		
	10TH HIGHEST VALUE IS 0.57797 AT (439227.01, 4246783.81, 182.40, 182.40, 0.00)	DC		



*** AERMOD - VERSION 22112 *** *** Ethylene oxide - South Charleston, WV Feb 15-16, 2022 Monitoring Eve *** 08/23/22
*** AERMET - VERSION 22112 *** *** Oxide Adducts; Triton; Covestro; Chemical Mixing *** 14:56:16
*** MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U* PAGE 12

*** THE SUMMARY OF MAXIMUM PERIOD (25 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 0.77244 AT (439477.01, 4246933.81, 183.40, 183.40, 0.00)	DC		
	2ND HIGHEST VALUE IS 0.77119 AT (439427.01, 4246933.81, 183.50, 183.50, 0.00)	DC		
	3RD HIGHEST VALUE IS 0.76950 AT (439415.68, 4246922.48, 183.20, 183.20, 0.00)	DC		
	4TH HIGHEST VALUE IS 0.73751 AT (439477.01, 4246983.81, 184.70, 184.70, 0.00)	DC		
	5TH HIGHEST VALUE IS 0.73162 AT (439327.01, 4246833.81, 182.70, 182.70, 0.00)	DC		
	6TH HIGHEST VALUE IS 0.71309 AT (439315.68, 4246822.48, 182.30, 182.30, 0.00)	DC		
	7TH HIGHEST VALUE IS 0.67320 AT (439377.01, 4246833.81, 182.30, 182.30, 0.00)	DC		
	8TH HIGHEST VALUE IS 0.67039 AT (439277.01, 4246783.81, 181.90, 181.90, 0.00)	DC		
	9TH HIGHEST VALUE IS 0.66748 AT (439277.01, 4246833.81, 182.50, 182.50, 0.00)	DC		
	10TH HIGHEST VALUE IS 0.65184 AT (439227.01, 4246783.81, 182.40, 182.40, 0.00)	DC		

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



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*** AERMOD - VERSION 22112 *** *** Ethylene oxide - South Charleston, WV Feb 15-16, 2022 Monitoring Eve ***
*** AERMET - VERSION 22112 *** *** Oxide Adducts; Triton; Covestro; Chemical Mixing ***
*** MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U0
*** Message Summary : AERMOD Model Execution ***
----- Summary of Total Messages -----
A Total of 0 Fatal Error Message(s)
A Total of 45 Warning Message(s)
A Total of 5 Informational Message(s)
A Total of 25 Hours Were Processed
A Total of 0 Calm Hours Identified
A Total of 3 Missing Hours Identified ( 12.00 Percent)
CAUTION!: Number of Missing Hours Exceeds 10 Percent of Total!
Data May Not Be Acceptable for Regulatory Applications.
See Section 5.3.2 of "Meteorological Monitoring Guidance
for Regulatory Modeling Applications" (EPA-454/R-99-005).

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

***** WARNING MESSAGES *****
SO W320 20 PPARM: Input Parameter May Be Out-of-Range for Parameter QS
SO W320 20 PPARM: Input Parameter May Be Out-of-Range for Parameter VS
SO W320 21 PPARM: Input Parameter May Be Out-of-Range for Parameter QS
SO W320 21 PPARM: Input Parameter May Be Out-of-Range for Parameter VS
SO W320 22 PPARM: Input Parameter May Be Out-of-Range for Parameter QS
SO W320 22 PPARM: Input Parameter May Be Out-of-Range for Parameter VS
SO W320 94 PPARM: Input Parameter May Be Out-of-Range for Parameter QS
SO W320 122 PPARM: Input Parameter May Be Out-of-Range for Parameter QS
SO W320 135 PPARM: Input Parameter May Be Out-of-Range for Parameter QS
SO W320 163 PPARM: Input Parameter May Be Out-of-Range for Parameter QS
SO W320 164 PPARM: Input Parameter May Be Out-of-Range for Parameter QS
SO W320 165 PPARM: Input Parameter May Be Out-of-Range for Parameter QS
SO W320 166 PPARM: Input Parameter May Be Out-of-Range for Parameter QS
SO W390 197 LPARM: Aspect ratio (L/W) of LINE source greater than 100 QAWTIL
SO W320 263 PPARM: Input Parameter May Be Out-of-Range for Parameter QS
SO W320 267 PPARM: Input Parameter May Be Out-of-Range for Parameter QS
SO W320 269 PPARM: Input Parameter May Be Out-of-Range for Parameter QS
SO W320 320 PPARM: Input Parameter May Be Out-of-Range for Parameter QS
SO W320 321 PPARM: Input Parameter May Be Out-of-Range for Parameter QS
SO W320 322 PPARM: Input Parameter May Be Out-of-Range for Parameter QS
ME W187 28 MEOPEN: ADJ_U0 Option For Stable Low Winds used in AERMET
OU W565 32 PERPLT: Possible Conflict With Dynamically Allocated FUNIT PLOTFILE
OU W565 38 PERPLT: Possible Conflict With Dynamically Allocated FUNIT PLOTFILE
OU W565 49 PERPLT: Possible Conflict With Dynamically Allocated FUNIT PLOTFILE
OU W565 50 PERPLT: Possible Conflict With Dynamically Allocated FUNIT PLOTFILE
OU W565 51 PERPLT: Possible Conflict With Dynamically Allocated FUNIT PLOTFILE
OU W565 52 PERPLT: Possible Conflict With Dynamically Allocated FUNIT PLOTFILE
OU W565 53 PERPLT: Possible Conflict With Dynamically Allocated FUNIT PLOTFILE
OU W565 54 PERPLT: Possible Conflict With Dynamically Allocated FUNIT PLOTFILE
OU W565 55 PERPLT: Possible Conflict With Dynamically Allocated FUNIT PLOTFILE
OU W565 56 PERPLT: Possible Conflict With Dynamically Allocated FUNIT PLOTFILE
OU W565 57 PERPLT: Possible Conflict With Dynamically Allocated FUNIT PLOTFILE
OU W565 60 PERPLT: Possible Conflict With Dynamically Allocated FUNIT PLOTFILE
OU W565 61 PERPLT: Possible Conflict With Dynamically Allocated FUNIT PLOTFILE
OU W565 62 PERPLT: Possible Conflict With Dynamically Allocated FUNIT PLOTFILE
OU W565 63 PERPLT: Possible Conflict With Dynamically Allocated FUNIT PLOTFILE
OU W565 64 PERPLT: Possible Conflict With Dynamically Allocated FUNIT PLOTFILE
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OU W565 66 PERPLT: Possible Conflict With Dynamically Allocated FUNIT PLOTFILE
OU W565 67 PERPLT: Possible Conflict With Dynamically Allocated FUNIT PLOTFILE
OU W565 68 PERPLT: Possible Conflict With Dynamically Allocated FUNIT PLOTFILE
OU W565 69 PERPLT: Possible Conflict With Dynamically Allocated FUNIT PLOTFILE
OU W565 70 PERPLT: Possible Conflict With Dynamically Allocated FUNIT PLOTFILE
OU W565 71 PERPLT: Possible Conflict With Dynamically Allocated FUNIT PLOTFILE
OU W565 74 PERPLT: Possible Conflict With Dynamically Allocated FUNIT PLOTFILE
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March Monitoring Event AERMOD Summary File: Institute

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*** AERMOD - VERSION 22112 *** *** Ethylene oxide - Institute *** 07/25/22
*** AERMET - VERSION 22112 *** *** Ethylene Oxide Distribution AND Polyox Processes *** 08:17:44
*** MODELSETS: RegDEFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U* *** 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.
* ADJ_U* - Use ADJ_U* option for SBL in AERMET
* Model Assumes No FLAGPOLE Receptor Heights.
* The User Specified a Pollutant Type of: OTHER

**Model Calculates PERIOD Averages Only

**This Run Includes: 26 Source(s); 21 Source Group(s); and 15537 Receptor(s)

with: 7 POINT(s), including 0 POINTCAP(s) and 0 POINTHOR(s)
and: 19 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 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: 22112

**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)

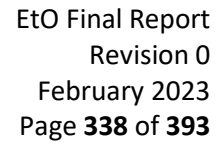
**NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours
m for Missing Hours
b for Both Calm and Missing Hours

**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 180.24 ; 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 = 14.6 MB of RAM.

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

**Detailed Error/Message File: error.fil
**File for Summary of Results: summary.sum
```



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



*** AERMOD - VERSION 22112 *** *** Ethylene oxide - Institute *** 07/25/22
*** AERMET - VERSION 22112 *** *** Ethylene Oxide Distribution AND Polyox Processes *** 08:17:44
PAGE 3

*** MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*
*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file: INST_Mar_22.SFC Met Version: 22112
Profile file: INST_Mar_22.PFL
Surface format: FREE
Profile Format: FREE
Surface station no.: 13866 Upper air station no.: 53829
Name: INSTITUTE/SOUTH CHARLESTON SITE, WV Name: UNKNOWN
Year: 2022 Year: 2022

First 24 hours of scalar data																						
YR	MO	DY	JDY	HR	HO	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O	LEN	Z0	BOWEN	ALBEDO	REF	WS	WD	HT	REF	TA	HT
22	03	23	82	01	-17.4	0.186	-9.000	-9.000	-999.	193.	38.1	0.26	0.63	1.00	1.61	100.	7.9	292.6	7.9			
22	03	23	82	02	-1.5	0.052	-9.000	-9.000	-999.	52.	8.0	0.01	0.63	1.00	0.80	130.	7.9	292.0	7.9			
22	03	23	82	03	-2.8	0.065	-9.000	-9.000	-999.	40.	8.4	0.01	0.63	1.00	1.21	120.	7.9	291.9	7.9			
22	03	23	82	04	-2.8	0.075	-9.000	-9.000	-999.	49.	13.2	0.26	0.63	1.00	0.63	113.	7.9	287.4	7.9			
22	03	23	82	05	-8.3	0.126	-9.000	-9.000	-999.	107.	20.8	0.26	0.63	1.00	1.12	118.	7.9	286.9	7.9			
22	03	23	82	06	-5.8	0.104	-9.000	-9.000	-999.	81.	17.1	0.26	0.63	1.00	0.94	98.	7.9	287.0	7.9			
22	03	23	82	07	-10.4	0.142	-9.000	-9.000	-999.	128.	23.7	0.26	0.63	1.00	1.25	115.	7.9	287.3	7.9			
22	03	23	82	08	-0.3	0.166	-9.000	-9.000	-999.	162.	1331.3	0.26	0.63	0.35	1.34	106.	7.9	288.1	7.9			
22	03	23	82	09	0.1	0.095	0.035	0.005	14.	72.	-751.4	0.26	0.63	0.22	0.80	115.	7.9	288.2	7.9			
22	03	23	82	10	0.1	0.137	0.039	0.005	20.	122.	-2235.8	0.26	0.63	0.18	1.16	112.	7.9	289.8	7.9			
22	03	23	82	11	0.1	0.124	0.042	0.005	25.	105.	-1667.2	0.01	0.63	0.17	2.10	127.	7.9	294.4	7.9			
22	03	23	82	12	0.1	0.226	0.044	0.005	29.	258.	-8888.0	0.26	0.63	0.16	1.92	109.	7.9	296.8	7.9			
22	03	23	82	13	0.1	0.111	0.045	0.005	32.	97.	-1196.0	0.01	0.63	0.16	1.88	134.	7.9	296.8	7.9			
22	03	23	82	14	0.1	0.167	0.047	0.005	35.	163.	-4005.8	0.01	0.63	0.16	2.82	124.	7.9	298.0	7.9			
22	03	23	82	15	0.1	0.416	0.048	0.005	38.	643.	-8888.0	0.26	0.63	0.17	3.53	117.	7.9	298.8	7.9			
22	03	23	82	16	0.1	0.324	0.049	0.005	41.	447.	-8888.0	0.05	0.63	0.18	4.11	183.	7.9	297.8	7.9			
22	03	23	82	17	0.1	0.124	0.050	0.005	43.	151.	-1658.8	0.01	0.63	0.21	2.10	131.	7.9	297.8	7.9			
22	03	23	82	18	0.1	0.220	0.051	0.005	45.	248.	-8888.0	0.15	0.63	0.32	2.19	306.	7.9	294.4	7.9			
22	03	23	82	19	-14.3	0.166	-9.000	-9.000	-999.	163.	30.2	0.15	0.63	0.68	1.74	306.	7.9	291.5	7.9			
22	03	23	82	20	-1.3	0.063	-9.000	-9.000	-999.	46.	16.6	0.38	0.63	1.00	0.31	45.	7.9	290.9	7.9			
22	03	23	82	21	-6.2	0.109	-9.000	-9.000	-999.	86.	18.0	0.26	0.63	1.00	0.98	117.	7.9	289.8	7.9			
22	03	23	82	22	-0.6	0.049	-9.000	-9.000	-999.	27.	16.4	0.04	0.63	1.00	0.31	171.	7.9	289.2	7.9			
22	03	23	82	23	-6.7	0.099	-9.000	-9.000	-999.	75.	12.5	0.01	0.63	1.00	1.92	278.	7.9	290.5	7.9			
22	03	23	82	24	-17.2	0.182	-9.000	-9.000	-999.	187.	36.5	0.03	0.63	1.00	2.77	266.	7.9	288.8	7.9			

First hour of profile data
YR MO DY HR HEIGHT F WDIR WSPD AMB_TMP sigmaA sigmaW sigmaV
22 03 23 01 7.9 1 100. 1.61 292.7 99.0 -99.00 -99.00

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



*** AERMOD - VERSION 22112 *** *** Ethylene oxide - Institute *** 07/25/22
*** AERMET - VERSION 22112 *** *** Ethylene Oxide Distribution AND Polyox Processes *** 08:17:44
*** MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U* PAGE 4

*** THE SUMMARY OF MAXIMUM PERIOD (26 HRS) RESULTS ***

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

GROUP ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
EODISTTL	1ST HIGHEST VALUE IS 0.19664 AT (432342.99, 4249230.00, 219.30, 325.70, 0.00)	DC		
	2ND HIGHEST VALUE IS 0.19351 AT (432331.66, 4249218.67, 216.70, 325.70, 0.00)	DC		
	3RD HIGHEST VALUE IS 0.15787 AT (432092.99, 4249280.00, 219.60, 326.50, 0.00)	DC		
	4TH HIGHEST VALUE IS 0.14866 AT (432392.99, 4249180.00, 215.80, 325.70, 0.00)	DC		
	5TH HIGHEST VALUE IS 0.13966 AT (432142.99, 4249280.00, 216.80, 326.50, 0.00)	DC		
	6TH HIGHEST VALUE IS 0.12767 AT (432192.99, 4249280.00, 215.90, 326.50, 0.00)	DC		
	7TH HIGHEST VALUE IS 0.11995 AT (432292.99, 4249330.00, 221.20, 326.50, 0.00)	DC		
	8TH HIGHEST VALUE IS 0.11030 AT (432242.99, 4249330.00, 216.20, 326.50, 0.00)	DC		
	9TH HIGHEST VALUE IS 0.10611 AT (432492.99, 4249130.00, 215.50, 325.70, 0.00)	DC		
	10TH HIGHEST VALUE IS 0.10209 AT (432231.66, 4249318.67, 215.60, 326.50, 0.00)	DC		
EODPOINT	1ST HIGHEST VALUE IS 0.19664 AT (432342.99, 4249230.00, 219.30, 325.70, 0.00)	DC		
	2ND HIGHEST VALUE IS 0.19351 AT (432331.66, 4249218.67, 216.70, 325.70, 0.00)	DC		
	3RD HIGHEST VALUE IS 0.15787 AT (432092.99, 4249280.00, 219.60, 326.50, 0.00)	DC		
	4TH HIGHEST VALUE IS 0.14866 AT (432392.99, 4249180.00, 215.80, 325.70, 0.00)	DC		
	5TH HIGHEST VALUE IS 0.13966 AT (432142.99, 4249280.00, 216.80, 326.50, 0.00)	DC		
	6TH HIGHEST VALUE IS 0.12767 AT (432192.99, 4249280.00, 215.90, 326.50, 0.00)	DC		
	7TH HIGHEST VALUE IS 0.11995 AT (432292.99, 4249330.00, 221.20, 326.50, 0.00)	DC		
	8TH HIGHEST VALUE IS 0.11030 AT (432242.99, 4249330.00, 216.20, 326.50, 0.00)	DC		
	9TH HIGHEST VALUE IS 0.10611 AT (432492.99, 4249130.00, 215.50, 325.70, 0.00)	DC		
	10TH HIGHEST VALUE IS 0.10209 AT (432231.66, 4249318.67, 215.60, 326.50, 0.00)	DC		
EODRAILF	1ST HIGHEST VALUE IS 0.11670 AT (431386.12, 4248944.69, 182.00, 328.25, 0.00)	DC		
	2ND HIGHEST VALUE IS 0.04822 AT (431731.66, 4249218.67, 185.40, 328.30, 0.00)	DC		
	3RD HIGHEST VALUE IS 0.04589 AT (431742.99, 4249230.00, 186.00, 328.30, 0.00)	DC		
	4TH HIGHEST VALUE IS 0.04419 AT (432114.34, 4249063.48, 183.18, 326.46, 0.00)	DC		
	5TH HIGHEST VALUE IS 0.04082 AT (431792.99, 4249230.00, 186.20, 328.30, 0.00)	DC		
	6TH HIGHEST VALUE IS 0.04029 AT (431692.99, 4249230.00, 185.80, 328.30, 0.00)	DC		
	7TH HIGHEST VALUE IS 0.04025 AT (432292.99, 4249130.00, 192.00, 326.50, 0.00)	DC		
	8TH HIGHEST VALUE IS 0.04007 AT (432331.66, 4249118.67, 193.60, 326.50, 0.00)	DC		
	9TH HIGHEST VALUE IS 0.03976 AT (431531.66, 4249218.67, 184.80, 328.30, 0.00)	DC		
	10TH HIGHEST VALUE IS 0.03881 AT (431631.66, 4249218.67, 185.70, 328.30, 0.00)	DC		
EODPUMPF	1ST HIGHEST VALUE IS 0.17562 AT (431386.12, 4248944.69, 182.00, 328.25, 0.00)	DC		
	2ND HIGHEST VALUE IS 0.10203 AT (431731.66, 4249218.67, 185.40, 328.30, 0.00)	DC		
	3RD HIGHEST VALUE IS 0.09507 AT (431742.99, 4249230.00, 186.00, 328.30, 0.00)	DC		
	4TH HIGHEST VALUE IS 0.08309 AT (431692.99, 4249230.00, 185.80, 328.30, 0.00)	DC		
	5TH HIGHEST VALUE IS 0.08122 AT (431531.66, 4249218.67, 184.80, 328.30, 0.00)	DC		
	6TH HIGHEST VALUE IS 0.08032 AT (431492.99, 4249230.00, 186.60, 328.30, 0.00)	DC		
	7TH HIGHEST VALUE IS 0.07969 AT (432114.34, 4249063.48, 183.18, 326.46, 0.00)	DC		
	8TH HIGHEST VALUE IS 0.07933 AT (431631.66, 4249218.67, 185.70, 328.30, 0.00)	DC		
	9TH HIGHEST VALUE IS 0.07725 AT (431231.66, 4249218.67, 183.90, 328.30, 0.00)	DC		
	10TH HIGHEST VALUE IS 0.07528 AT (431642.99, 4249230.00, 185.50, 328.30, 0.00)	DC		



*** AERMOD - VERSION 22112 *** *** Ethylene oxide - Institute ***										***	07/25/22
*** AERMET - VERSION 22112 *** *** Ethylene Oxide Distribution AND Polyox Processes ***										***	08:17:44
*** MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*											PAGE 5
*** THE SUMMARY OF MAXIMUM PERIOD (26 HRS) RESULTS ***											
** CONC OF OTHER IN MICROGRAMS/M**3 **											
GROUP ID	AVERAGE CONC			RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)				OF TYPE		NETWORK GRID-ID	
EODTANKF	1ST HIGHEST VALUE IS	0.10989	AT (	431386.12,	4248944.69,	182.00,	328.25,	0.00)	DC		
	2ND HIGHEST VALUE IS	0.05539	AT (	431692.99,	4249230.00,	185.80,	328.30,	0.00)	DC		
	3RD HIGHEST VALUE IS	0.05285	AT (	431731.66,	4249218.67,	185.40,	328.30,	0.00)	DC		
	4TH HIGHEST VALUE IS	0.04886	AT (	431631.66,	4249218.67,	185.70,	328.30,	0.00)	DC		
	5TH HIGHEST VALUE IS	0.04844	AT (	431231.66,	4249218.67,	183.90,	328.30,	0.00)	DC		
	6TH HIGHEST VALUE IS	0.04789	AT (	431742.99,	4249230.00,	186.00,	328.30,	0.00)	DC		
	7TH HIGHEST VALUE IS	0.04745	AT (	431642.99,	4249230.00,	185.50,	328.30,	0.00)	DC		
	8TH HIGHEST VALUE IS	0.04611	AT (	431531.66,	4249218.67,	184.80,	328.30,	0.00)	DC		
	9TH HIGHEST VALUE IS	0.04584	AT (	431492.99,	4249230.00,	186.60,	328.30,	0.00)	DC		
	10TH HIGHEST VALUE IS	0.04497	AT (	431242.99,	4249230.00,	184.40,	328.30,	0.00)	DC		
EODFLARF	1ST HIGHEST VALUE IS	0.01951	AT (	431731.66,	4249218.67,	185.40,	328.30,	0.00)	DC		
	2ND HIGHEST VALUE IS	0.01877	AT (	431742.99,	4249230.00,	186.00,	328.30,	0.00)	DC		
	3RD HIGHEST VALUE IS	0.01571	AT (	431331.66,	4249218.67,	184.50,	328.30,	0.00)	DC		
	4TH HIGHEST VALUE IS	0.01548	AT (	431542.99,	4249230.00,	185.50,	328.30,	0.00)	DC		
	5TH HIGHEST VALUE IS	0.01539	AT (	431386.12,	4248944.69,	182.00,	328.25,	0.00)	DC		
	6TH HIGHEST VALUE IS	0.01534	AT (	431792.99,	4249230.00,	186.20,	328.30,	0.00)	DC		
	7TH HIGHEST VALUE IS	0.01506	AT (	431531.66,	4249218.67,	184.80,	328.30,	0.00)	DC		
	8TH HIGHEST VALUE IS	0.01476	AT (	431631.66,	4249218.67,	185.70,	328.30,	0.00)	DC		
	9TH HIGHEST VALUE IS	0.01476	AT (	431692.99,	4249230.00,	185.80,	328.30,	0.00)	DC		
	10TH HIGHEST VALUE IS	0.01467	AT (	431342.99,	4249230.00,	184.80,	328.30,	0.00)	DC		
EODR25F	1ST HIGHEST VALUE IS	0.05312	AT (	431792.99,	4249230.00,	186.20,	328.30,	0.00)	DC		
	2ND HIGHEST VALUE IS	0.05176	AT (	431892.99,	4249230.00,	187.60,	326.50,	0.00)	DC		
	3RD HIGHEST VALUE IS	0.04339	AT (	431831.66,	4249218.67,	186.20,	328.30,	0.00)	DC		
	4TH HIGHEST VALUE IS	0.03858	AT (	431842.99,	4249230.00,	186.80,	328.30,	0.00)	DC		
	5TH HIGHEST VALUE IS	0.03041	AT (	431992.99,	4249180.00,	186.60,	326.50,	0.00)	DC		
	6TH HIGHEST VALUE IS	0.02423	AT (	431931.66,	4249218.67,	187.70,	326.50,	0.00)	DC		
	7TH HIGHEST VALUE IS	0.02128	AT (	432142.99,	4249130.00,	186.10,	326.50,	0.00)	DC		
	8TH HIGHEST VALUE IS	0.02126	AT (	431742.99,	4249230.00,	186.00,	328.30,	0.00)	DC		
	9TH HIGHEST VALUE IS	0.02018	AT (	432042.99,	4249180.00,	186.60,	326.50,	0.00)	DC		
	10TH HIGHEST VALUE IS	0.01844	AT (	431942.99,	4249230.00,	187.60,	326.50,	0.00)	DC		
EODFUGI	1ST HIGHEST VALUE IS	0.41871	AT (	431386.12,	4248944.69,	182.00,	328.25,	0.00)	DC		
	2ND HIGHEST VALUE IS	0.24060	AT (	431731.66,	4249218.67,	185.40,	328.30,	0.00)	DC		
	3RD HIGHEST VALUE IS	0.22889	AT (	431742.99,	4249230.00,	186.00,	328.30,	0.00)	DC		
	4TH HIGHEST VALUE IS	0.21897	AT (	431792.99,	4249230.00,	186.20,	328.30,	0.00)	DC		
	5TH HIGHEST VALUE IS	0.20552	AT (	431692.99,	4249230.00,	185.80,	328.30,	0.00)	DC		
	6TH HIGHEST VALUE IS	0.18726	AT (	431631.66,	4249218.67,	185.70,	328.30,	0.00)	DC		
	7TH HIGHEST VALUE IS	0.18472	AT (	431531.66,	4249218.67,	184.80,	328.30,	0.00)	DC		
	8TH HIGHEST VALUE IS	0.18183	AT (	431831.66,	4249218.67,	186.20,	328.30,	0.00)	DC		
	9TH HIGHEST VALUE IS	0.18137	AT (	431642.99,	4249230.00,	185.50,	328.30,	0.00)	DC		
	10TH HIGHEST VALUE IS	0.17783	AT (	431492.99,	4249230.00,	186.60,	328.30,	0.00)	DC		



*** AERMOD - VERSION 22112 ***									
*** AERMET - VERSION 22112 ***									
*** Ethylene oxide - Institute									
*** Ethylene Oxide Distribution AND Polyox Processes									
*** MODELPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*									
*** THE SUMMARY OF MAXIMUM PERIOD (26 HRS) RESULTS ***									
** CONC OF OTHER IN MICROGRAMS/M**3 **									
GROUP ID	AVERAGE CONC		RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)					OF TYPE	NETWORK GRID-ID
EODIST	1ST HIGHEST VALUE IS	0.42096 AT (	431386.12,	4248944.69,	182.00,	328.25,	0.00)	DC	
	2ND HIGHEST VALUE IS	0.24653 AT (	431731.66,	4249218.67,	185.40,	328.30,	0.00)	DC	
	3RD HIGHEST VALUE IS	0.24339 AT (	432331.66,	4249218.67,	216.70,	325.70,	0.00)	DC	
	4TH HIGHEST VALUE IS	0.23534 AT (	431742.99,	4249230.00,	186.00,	328.30,	0.00)	DC	
	5TH HIGHEST VALUE IS	0.23342 AT (	432342.99,	4249230.00,	219.30,	325.70,	0.00)	DC	
	6TH HIGHEST VALUE IS	0.22833 AT (	431792.99,	4249230.00,	186.20,	328.30,	0.00)	DC	
	7TH HIGHEST VALUE IS	0.21559 AT (	432392.99,	4249180.00,	215.80,	325.70,	0.00)	DC	
	8TH HIGHEST VALUE IS	0.21147 AT (	431692.99,	4249230.00,	185.80,	328.30,	0.00)	DC	
	9TH HIGHEST VALUE IS	0.19416 AT (	431231.66,	4249218.67,	183.90,	328.30,	0.00)	DC	
	10TH HIGHEST VALUE IS	0.19059 AT (	431631.66,	4249218.67,	185.70,	328.30,	0.00)	DC	
221A	1ST HIGHEST VALUE IS	0.06913 AT (	432531.66,	4249218.67,	237.10,	325.60,	0.00)	DC	
	2ND HIGHEST VALUE IS	0.06903 AT (	432392.99,	4249280.00,	237.90,	322.40,	0.00)	DC	
	3RD HIGHEST VALUE IS	0.06533 AT (	432442.99,	4249230.00,	233.60,	322.40,	0.00)	DC	
	4TH HIGHEST VALUE IS	0.06385 AT (	432492.99,	4249230.00,	240.00,	322.40,	0.00)	DC	
	5TH HIGHEST VALUE IS	0.06229 AT (	432631.66,	4249218.67,	237.40,	325.70,	0.00)	DC	
	6TH HIGHEST VALUE IS	0.05990 AT (	432542.99,	4249230.00,	240.30,	322.40,	0.00)	DC	
	7TH HIGHEST VALUE IS	0.05853 AT (	431492.99,	4249380.00,	236.10,	326.50,	0.00)	DC	
	8TH HIGHEST VALUE IS	0.05808 AT (	432119.85,	4249306.86,	236.60,	326.50,	0.00)	DC	
	9TH HIGHEST VALUE IS	0.05805 AT (	432129.22,	4249316.23,	238.60,	322.40,	0.00)	DC	
	10TH HIGHEST VALUE IS	0.05777 AT (	432131.66,	4249318.67,	238.40,	322.40,	0.00)	DC	
230M	1ST HIGHEST VALUE IS	0.15243 AT (	431931.66,	4248118.67,	180.80,	314.60,	0.00)	DC	
	2ND HIGHEST VALUE IS	0.12097 AT (	431892.99,	4248080.00,	172.80,	314.60,	0.00)	DC	
	3RD HIGHEST VALUE IS	0.11491 AT (	433031.66,	4248718.67,	187.40,	325.70,	0.00)	DC	
	4TH HIGHEST VALUE IS	0.11375 AT (	431879.22,	4248066.23,	172.80,	314.60,	0.00)	DC	
	5TH HIGHEST VALUE IS	0.09790 AT (	432931.66,	4248718.67,	184.60,	325.70,	0.00)	DC	
	6TH HIGHEST VALUE IS	0.09596 AT (	431842.99,	4248030.00,	172.80,	314.60,	0.00)	DC	
	7TH HIGHEST VALUE IS	0.09077 AT (	431831.66,	4248018.67,	172.80,	314.60,	0.00)	DC	
	8TH HIGHEST VALUE IS	0.08456 AT (	432114.34,	4249063.48,	183.18,	326.46,	0.00)	DC	
	9TH HIGHEST VALUE IS	0.07543 AT (	433131.66,	4248718.67,	197.60,	325.70,	0.00)	DC	
	10TH HIGHEST VALUE IS	0.07461 AT (	432931.66,	4248418.67,	182.10,	316.30,	0.00)	DC	
230L	1ST HIGHEST VALUE IS	0.72243 AT (	431931.66,	4248118.67,	180.80,	314.60,	0.00)	DC	
	2ND HIGHEST VALUE IS	0.57565 AT (	431892.99,	4248080.00,	172.80,	314.60,	0.00)	DC	
	3RD HIGHEST VALUE IS	0.57030 AT (	433031.66,	4248718.67,	187.40,	325.70,	0.00)	DC	
	4TH HIGHEST VALUE IS	0.54149 AT (	431879.22,	4248066.23,	172.80,	314.60,	0.00)	DC	
	5TH HIGHEST VALUE IS	0.47684 AT (	432931.66,	4248718.67,	184.60,	325.70,	0.00)	DC	
	6TH HIGHEST VALUE IS	0.45719 AT (	431842.99,	4248030.00,	172.80,	314.60,	0.00)	DC	
	7TH HIGHEST VALUE IS	0.43254 AT (	431831.66,	4248018.67,	172.80,	314.60,	0.00)	DC	
	8TH HIGHEST VALUE IS	0.39821 AT (	432114.34,	4249063.48,	183.18,	326.46,	0.00)	DC	
	9TH HIGHEST VALUE IS	0.36456 AT (	433231.66,	4248818.67,	195.00,	325.70,	0.00)	DC	
	10TH HIGHEST VALUE IS	0.35480 AT (	431792.99,	4247980.00,	172.80,	314.60,	0.00)	DC	



*** AERMOD - VERSION 22112 *** *** Ethylene oxide - Institute *** 07/25/22
*** AERMET - VERSION 22112 *** *** Ethylene Oxide Distribution AND Polyox Processes *** 08:17:44
*** MODELOPTS: RegDFault CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U* PAGE 7

*** THE SUMMARY OF MAXIMUM PERIOD (26 HRS) RESULTS ***

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

GROUP ID		AVERAGE CONC		RECEPTOR	(XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
230K	1ST HIGHEST VALUE IS	0.14320 AT (	431931.66,	4248118.67,	180.80, 314.60,	0.00)	DC
	2ND HIGHEST VALUE IS	0.11440 AT (	431892.99,	4248080.00,	172.80, 314.60,	0.00)	DC
	3RD HIGHEST VALUE IS	0.10763 AT (	431879.22,	4248066.23,	172.80, 314.60,	0.00)	DC
	4TH HIGHEST VALUE IS	0.10738 AT (	433031.66,	4248718.67,	187.40, 325.70,	0.00)	DC
	5TH HIGHEST VALUE IS	0.09513 AT (	432931.66,	4248718.67,	184.60, 325.70,	0.00)	DC
	6TH HIGHEST VALUE IS	0.09083 AT (	431842.99,	4248030.00,	172.80, 314.60,	0.00)	DC
	7TH HIGHEST VALUE IS	0.08589 AT (	431831.66,	4248018.67,	172.80, 314.60,	0.00)	DC
	8TH HIGHEST VALUE IS	0.07243 AT (	433231.66,	4248818.67,	195.00, 325.70,	0.00)	DC
	9TH HIGHEST VALUE IS	0.07072 AT (	432931.66,	4248418.67,	182.10, 316.30,	0.00)	DC
	10TH HIGHEST VALUE IS	0.07026 AT (	431792.99,	4247980.00,	172.80, 314.60,	0.00)	DC
230O	1ST HIGHEST VALUE IS	0.04875 AT (	433331.66,	4248918.67,	214.60, 325.70,	0.00)	DC
	2ND HIGHEST VALUE IS	0.04411 AT (	432703.87,	4249110.67,	213.40, 325.70,	0.00)	DC
	3RD HIGHEST VALUE IS	0.04323 AT (	433431.66,	4248818.67,	209.20, 325.70,	0.00)	DC
	4TH HIGHEST VALUE IS	0.04271 AT (	433631.66,	4248718.67,	210.80, 306.60,	0.00)	DC
	5TH HIGHEST VALUE IS	0.04140 AT (	434031.66,	4248418.67,	211.60, 306.60,	0.00)	DC
	6TH HIGHEST VALUE IS	0.04095 AT (	433531.66,	4248718.67,	209.50, 306.60,	0.00)	DC
	7TH HIGHEST VALUE IS	0.04092 AT (	433431.66,	4248918.67,	215.50, 325.70,	0.00)	DC
	8TH HIGHEST VALUE IS	0.03804 AT (	433129.22,	4249066.23,	211.30, 325.70,	0.00)	DC
	9TH HIGHEST VALUE IS	0.03803 AT (	433531.66,	4248818.67,	215.80, 306.60,	0.00)	DC
	10TH HIGHEST VALUE IS	0.03711 AT (	433631.66,	4248518.67,	209.50, 304.30,	0.00)	DC
230HH	1ST HIGHEST VALUE IS	0.00000 AT (	0.00,	0.00,	0.00, 0.00,	0.00)	
	2ND HIGHEST VALUE IS	0.00000 AT (	0.00,	0.00,	0.00, 0.00,	0.00)	
	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)	
PPOINT	1ST HIGHEST VALUE IS	1.03738 AT (	431931.66,	4248118.67,	180.80, 314.60,	0.00)	DC
	2ND HIGHEST VALUE IS	0.82440 AT (	431892.99,	4248080.00,	172.80, 314.60,	0.00)	DC
	3RD HIGHEST VALUE IS	0.81357 AT (	433031.66,	4248718.67,	187.40, 325.70,	0.00)	DC
	4TH HIGHEST VALUE IS	0.77549 AT (	431879.22,	4248066.23,	172.80, 314.60,	0.00)	DC
	5TH HIGHEST VALUE IS	0.69127 AT (	432931.66,	4248718.67,	184.60, 325.70,	0.00)	DC
	6TH HIGHEST VALUE IS	0.65470 AT (	431842.99,	4248030.00,	172.80, 314.60,	0.00)	DC
	7TH HIGHEST VALUE IS	0.61936 AT (	431831.66,	4248018.67,	172.80, 314.60,	0.00)	DC
	8TH HIGHEST VALUE IS	0.54518 AT (	432114.34,	4249063.48,	183.18, 326.46,	0.00)	DC
	9TH HIGHEST VALUE IS	0.52390 AT (	433231.66,	4248818.67,	195.00, 325.70,	0.00)	DC
	10TH HIGHEST VALUE IS	0.51095 AT (	433131.66,	4248718.67,	197.60, 325.70,	0.00)	DC



*** AERMOD - VERSION 22112 ***			*** Ethylene oxide - Institute							***			07/25/22	
*** AERMET - VERSION 22112 ***			*** Ethylene Oxide Distribution AND Polyox Processes							***			08:17:44	
*** MODELOPTS:			RegDFault	CONC	ELEV	NODRYDPLT	NOWETDPLT	RURAL	ADJ_U*	PAGE 8				
*** THE SUMMARY OF MAXIMUM PERIOD (26 HRS) RESULTS ***														
** CONC OF OTHER IN MICROGRAMS/M**3 **														
GROUP ID		AVERAGE CONC			RECEPTOR (XR, YR, ZELEV, ZHLL, ZFLAG)					OF TYPE		NETWORK GRID-ID		
POLYVOL1		1ST HIGHEST VALUE IS	0.02621	AT (	432831.66,	4248318.67,	182.30,	314.60,	0.00)	DC				
		2ND HIGHEST VALUE IS	0.02321	AT (	432879.22,	4248316.23,	181.30,	314.60,	0.00)	DC				
		3RD HIGHEST VALUE IS	0.02001	AT (	432931.66,	4248318.67,	182.10,	314.60,	0.00)	DC				
		4TH HIGHEST VALUE IS	0.01760	AT (	432931.66,	4248218.67,	182.50,	314.60,	0.00)	DC				
		5TH HIGHEST VALUE IS	0.01701	AT (	433031.66,	4248218.67,	183.30,	314.60,	0.00)	DC				
		6TH HIGHEST VALUE IS	0.01677	AT (	432831.66,	4248218.67,	182.40,	314.60,	0.00)	DC				
		7TH HIGHEST VALUE IS	0.01557	AT (	433031.66,	4248318.67,	183.60,	304.30,	0.00)	DC				
		8TH HIGHEST VALUE IS	0.01554	AT (	433131.66,	4248218.67,	184.90,	304.30,	0.00)	DC				
		9TH HIGHEST VALUE IS	0.01383	AT (	433231.66,	4248218.67,	185.30,	304.30,	0.00)	DC				
		10TH HIGHEST VALUE IS	0.01351	AT (	433119.85,	4248306.86,	185.50,	304.30,	0.00)	DC				
PBL8389		1ST HIGHEST VALUE IS	0.00510	AT (	433129.22,	4248816.23,	205.00,	325.70,	0.00)	DC				
		2ND HIGHEST VALUE IS	0.00504	AT (	433131.66,	4248818.67,	204.60,	325.70,	0.00)	DC				
		3RD HIGHEST VALUE IS	0.00453	AT (	433119.85,	4248806.86,	201.70,	325.70,	0.00)	DC				
		4TH HIGHEST VALUE IS	0.00372	AT (	433379.22,	4248816.23,	201.30,	325.70,	0.00)	DC				
		5TH HIGHEST VALUE IS	0.00350	AT (	433331.66,	4248718.67,	202.10,	325.70,	0.00)	DC				
		6TH HIGHEST VALUE IS	0.00335	AT (	433431.66,	4248818.67,	209.20,	325.70,	0.00)	DC				
		7TH HIGHEST VALUE IS	0.00324	AT (	433131.66,	4248718.67,	197.60,	325.70,	0.00)	DC				
		8TH HIGHEST VALUE IS	0.00322	AT (	433131.66,	4248918.67,	204.40,	325.70,	0.00)	DC				
		9TH HIGHEST VALUE IS	0.00284	AT (	432131.66,	4249218.67,	204.10,	326.50,	0.00)	DC				
		10TH HIGHEST VALUE IS	0.00274	AT (	433331.66,	4248818.67,	197.40,	325.70,	0.00)	DC				
PFUGIT		1ST HIGHEST VALUE IS	0.02749	AT (	432831.66,	4248318.67,	182.30,	314.60,	0.00)	DC				
		2ND HIGHEST VALUE IS	0.02443	AT (	432879.22,	4248316.23,	181.30,	314.60,	0.00)	DC				
		3RD HIGHEST VALUE IS	0.02120	AT (	432931.66,	4248318.67,	182.10,	314.60,	0.00)	DC				
		4TH HIGHEST VALUE IS	0.01876	AT (	432931.66,	4248218.67,	182.50,	314.60,	0.00)	DC				
		5TH HIGHEST VALUE IS	0.01820	AT (	433031.66,	4248218.67,	183.30,	314.60,	0.00)	DC				
		6TH HIGHEST VALUE IS	0.01781	AT (	432831.66,	4248218.67,	182.40,	314.60,	0.00)	DC				
		7TH HIGHEST VALUE IS	0.01674	AT (	433131.66,	4248218.67,	184.90,	304.30,	0.00)	DC				
		8TH HIGHEST VALUE IS	0.01662	AT (	433031.66,	4248318.67,	183.60,	304.30,	0.00)	DC				
		9TH HIGHEST VALUE IS	0.01501	AT (	433231.66,	4248218.67,	185.30,	304.30,	0.00)	DC				
		10TH HIGHEST VALUE IS	0.01450	AT (	433119.85,	4248306.86,	185.50,	304.30,	0.00)	DC				
POLYOX		1ST HIGHEST VALUE IS	1.05118	AT (	431931.66,	4248118.67,	180.80,	314.60,	0.00)	DC				
		2ND HIGHEST VALUE IS	0.83416	AT (	431892.99,	4248080.00,	172.80,	314.60,	0.00)	DC				
		3RD HIGHEST VALUE IS	0.82323	AT (	433031.66,	4248718.67,	187.40,	325.70,	0.00)	DC				
		4TH HIGHEST VALUE IS	0.78466	AT (	431879.22,	4248066.23,	172.80,	314.60,	0.00)	DC				
		5TH HIGHEST VALUE IS	0.70063	AT (	432931.66,	4248718.67,	184.60,	325.70,	0.00)	DC				
		6TH HIGHEST VALUE IS	0.66259	AT (	431842.99,	4248030.00,	172.80,	314.60,	0.00)	DC				
		7TH HIGHEST VALUE IS	0.62690	AT (	431831.66,	4248018.67,	172.80,	314.60,	0.00)	DC				
		8TH HIGHEST VALUE IS	0.55086	AT (	432114.34,	4249063.48,	183.18,	326.46,	0.00)	DC				
		9TH HIGHEST VALUE IS	0.53502	AT (	433231.66,	4248818.67,	195.00,	325.70,	0.00)	DC				
		10TH HIGHEST VALUE IS	0.52291	AT (	433131.66,	4248718.67,	197.60,	325.70,	0.00)	DC				



*** AERMOD - VERSION 22112 *** *** Ethylene oxide - Institute *** 07/25/22
*** AERMET - VERSION 22112 *** *** Ethylene Oxide Distribution AND Polyox Processes *** 08:17:44
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*** MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

*** THE SUMMARY OF MAXIMUM PERIOD (26 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	1.08913	AT (	431931.66, 4248118.67, 180.80, 314.60, 0.00)	DC	
	2ND HIGHEST VALUE IS	0.91673	AT (	433031.66, 4248718.67, 187.40, 325.70, 0.00)	DC	
	3RD HIGHEST VALUE IS	0.86758	AT (	431892.99, 4248080.00, 172.80, 314.60, 0.00)	DC	
	4TH HIGHEST VALUE IS	0.81757	AT (	431879.22, 4248066.23, 172.80, 314.60, 0.00)	DC	
	5TH HIGHEST VALUE IS	0.80874	AT (	432931.66, 4248718.67, 184.60, 325.70, 0.00)	DC	
	6TH HIGHEST VALUE IS	0.72641	AT (	432114.34, 4249063.48, 183.18, 326.46, 0.00)	DC	
	7TH HIGHEST VALUE IS	0.69407	AT (	431842.99, 4248030.00, 172.80, 314.60, 0.00)	DC	
	8TH HIGHEST VALUE IS	0.65794	AT (	431831.66, 4248018.67, 172.80, 314.60, 0.00)	DC	
	9TH HIGHEST VALUE IS	0.59288	AT (	433131.66, 4248718.67, 197.60, 325.70, 0.00)	DC	
	10TH HIGHEST VALUE IS	0.59169	AT (	433231.66, 4248818.67, 195.00, 325.70, 0.00)	DC	

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



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*** AERMOD - VERSION 22112 *** *** Ethylene oxide - Institute ***
*** AERMET - VERSION 22112 *** *** Ethylene Oxide Distribution AND Polyox Processes ***
*** MODELOPTS: RegDFAULT 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 15 Warning Message(s)
A Total of 0 Informational Message(s)
A Total of 26 Hours Were Processed
A Total of 0 Calm Hours Identified
A Total of 0 Missing Hours Identified ( 0.00 Percent)

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

***** WARNING MESSAGES *****
SO W320 20 PPARM: Input Parameter May Be Out-of-Range for Parameter VS
SO W320 22 PPARM: Input Parameter May Be Out-of-Range for Parameter QS
ME W187 29 MEOPEN: ADJ_U* Option For Stable Low Winds used in AERMET
OU W565 32 PERPLT: Possible Conflict With Dynamically Allocated FUNIT PLOTFILE
OU W565 44 PERPLT: Possible Conflict With Dynamically Allocated FUNIT PLOTFILE
OU W565 45 PERPLT: Possible Conflict With Dynamically Allocated FUNIT PLOTFILE
OU W565 46 PERPLT: Possible Conflict With Dynamically Allocated FUNIT PLOTFILE
OU W565 47 PERPLT: Possible Conflict With Dynamically Allocated FUNIT PLOTFILE
OU W565 48 PERPLT: Possible Conflict With Dynamically Allocated FUNIT PLOTFILE
OU W565 49 PERPLT: Possible Conflict With Dynamically Allocated FUNIT PLOTFILE
OU W565 50 PERPLT: Possible Conflict With Dynamically Allocated FUNIT PLOTFILE
OU W565 51 PERPLT: Possible Conflict With Dynamically Allocated FUNIT PLOTFILE
OU W565 52 PERPLT: Possible Conflict With Dynamically Allocated FUNIT PLOTFILE
OU W565 53 PERPLT: Possible Conflict With Dynamically Allocated FUNIT PLOTFILE
OU W565 54 PERPLT: Possible Conflict With Dynamically Allocated FUNIT PLOTFILE
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*** 07/25/22
*** 08:17:44
*** PAGE 10



March Monitoring Event AERMOD Summary File: South Charleston

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*** AERMOD - VERSION 22112 *** *** Ethylene oxide - South Charleston, WV Mar 23-24, 2022 Monitoring Eve *** 07/25/22
*** AERMET - VERSION 22112 *** *** Oxide Adducts; Triton; Covestro; Chemical Mixing *** 08:20:38
*** MODELSETS: RegDEFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U* *** 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.
* Option For Capped & Horiz Stacks Selected With:
  0 Capped Stack(s); and 3 Horizontal Stack(s)
* ADJ_U* - Use ADJ_U* option for SBL in AERMET
* Model Assumes No FLAGPOLE Receptor Heights.
* The User Specified a Pollutant Type of: OTHER

**Model Calculates PERIOD Averages Only

**This Run Includes: 119 Source(s); 33 Source Group(s); and 15537 Receptor(s)

with: 102 POINT(s), including 3 POINTHOR(s)
and: 0 POINTCAP(s) and
and: 15 VOLUME source(s)
and: 1 AREA type source(s)
and: 1 LINE source(s)
and: 0 RLINE/RLINE source(s)
and: 0 OPENPT 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: 22112

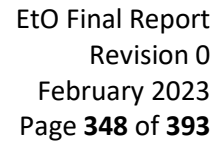
**Output Options Selected:
Model Outputs Tables of PERIOD Averages by Receptor
Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

**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) = 180.24 ; 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 = 20.5 MB of RAM.

**Input Runstream File: aermod.inp
**Output Print File: aermod.out
**Detailed Error/Message File: error.fil
**File for Summary of Results: Summary.sum
```

[illegible]

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,



*** AERMOD - VERSION 22112 *** *** Ethylene oxide - South Charleston, WV Mar 23-24, 2022 Monitoring Eve *** 07/25/22
*** AERMET - VERSION 22112 *** *** Oxide Adducts; Triton; Covestro; Chemical Mixing *** 08:20:38
PAGE 3

*** MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U²
*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file: SC_Mar_22.SFC Met Version: 22112
Profile file: SC_Mar_22.PFL
Surface format: FREE
Profile format: FREE
Surface station no.: 13866 Upper air station no.: 53829
Name: INSTITUTE/SOUTH CHARLESTON SITE, WV Name: UNKNOWN
Year: 2022 Year: 2022

First 24 hours of scalar data																						
YR	MO	DY	JDY	HR	HO	U ²	W ²	DT/DZ	ZICNV	ZIMCH	M-O	LEN	Z0	BOWEN	ALBEDO	REF	WS	WD	HT	REF	TA	HT
22	03	22	81	01	-999.0	-9.000	-9.000	-999.	-999.	-999.	-99999.0	0.05	0.63	1.00	0.00	0.	10.0	280.9	2.0			
22	03	22	81	02	-999.0	-9.000	-9.000	-999.	-999.	-999.	-99999.0	0.05	0.63	1.00	0.00	0.	10.0	280.3	2.0			
22	03	22	81	03	-999.0	-9.000	-9.000	-999.	-999.	-999.	-99999.0	0.05	0.63	1.00	0.00	0.	10.0	279.8	2.0			
22	03	22	81	04	-999.0	-9.000	-9.000	-999.	-999.	-999.	-99999.0	0.05	0.63	1.00	0.00	0.	10.0	278.8	2.0			
22	03	22	81	05	-999.0	-9.000	-9.000	-999.	-999.	-999.	-99999.0	0.05	0.63	1.00	0.00	0.	10.0	279.2	2.0			
22	03	22	81	06	-999.0	-9.000	-9.000	-999.	-999.	-999.	-99999.0	0.05	0.63	1.00	0.00	0.	10.0	278.8	2.0			
22	03	22	81	07	-999.0	-9.000	-9.000	-999.	-999.	-999.	-99999.0	0.05	0.63	1.00	0.00	0.	10.0	278.1	2.0			
22	03	22	81	08	9.1	-9.000	-9.000	-999.	37.	-999.	-99999.0	0.05	0.63	0.36	0.00	0.	10.0	279.8	2.0			
22	03	22	81	09	11.4	-9.000	-9.000	-999.	55.	-999.	-99999.0	0.05	0.63	0.22	0.00	0.	10.0	283.1	2.0			
22	03	22	81	10	71.4	-9.000	-9.000	-999.	118.	-999.	-99999.0	0.05	0.63	0.18	0.00	0.	10.0	286.4	2.0			
22	03	22	81	11	114.4	0.184	1.079	0.009	385.	189.	4.7	0.05	0.63	0.17	1.76	999.	10.0	292.0	2.0			
22	03	22	81	12	3.9	0.055	0.351	0.009	386.	50.	-3.8	0.01	0.63	0.16	0.76	73.	7.9	287.8	7.9			
22	03	22	81	13	7.4	0.065	0.439	0.009	402.	40.	-3.3	0.01	0.63	0.16	0.89	88.	7.9	290.9	7.9			
22	03	22	81	14	9.7	0.050	0.488	0.009	420.	27.	-1.1	0.02	0.63	0.16	0.45	54.	7.9	293.8	7.9			
22	03	22	81	15	10.1	0.065	0.502	0.009	436.	40.	-2.4	0.01	0.63	0.17	0.80	101.	7.9	294.8	7.9			
22	03	22	81	16	8.8	0.126	0.484	0.009	450.	107.	-19.8	0.01	0.63	0.18	1.88	115.	7.9	294.9	7.9			
22	03	22	81	17	6.2	0.141	0.434	0.009	459.	127.	-39.6	0.01	0.63	0.21	2.19	113.	7.9	295.5	7.9			
22	03	22	81	18	2.0	0.110	0.296	0.009	462.	88.	-59.5	0.01	0.63	0.33	1.74	97.	7.9	296.0	7.9			
22	03	22	81	19	-15.9	0.174	-9.000	-9.000	-999.	174.	33.1	0.01	0.63	0.70	3.08	117.	7.9	296.8	7.9			
22	03	22	81	20	-9.6	0.121	-9.000	-9.000	-999.	101.	16.0	0.01	0.63	1.00	2.19	114.	7.9	295.9	7.9			
22	03	22	81	21	3.5	0.071	-9.000	-9.000	-999.	46.	8.9	0.01	0.63	1.00	1.39	82.	7.9	293.8	7.9			
22	03	22	81	22	-14.2	0.153	-9.000	-9.000	-999.	143.	25.7	0.01	0.63	1.00	2.73	112.	7.9	294.2	7.9			
22	03	22	81	23	-16.7	0.179	-9.000	-9.000	-999.	181.	35.2	0.01	0.63	1.00	3.17	117.	7.9	293.9	7.9			
22	03	22	81	24	-16.3	0.175	-9.000	-9.000	-999.	175.	33.6	0.03	0.63	1.00	2.68	128.	7.9	293.4	7.9			

First hour of profile data
YR MO DY HR HEIGHT F WDIR WSPD AMB_TMP sigmaA sigmaW sigmaV
22 03 22 01 10.0 1 -999. -99.00 281.0 99.0 -99.00 -99.00

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



*** AERMOD - VERSION 22112 *** *** Ethylene oxide - South Charleston, WV Mar 23-24, 2022 Monitoring Eve *** 07/25/22
*** AERMET - VERSION 22112 *** *** Oxide Adducts; Triton; Covestro; Chemical Mixing *** 08:20:38
*** MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U* PAGE 4

*** THE SUMMARY OF MAXIMUM PERIOD (25 HRS) RESULTS ***

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

GROUP ID		AVERAGE CONC		RECEPTOR	(XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
CHMIX	1ST HIGHEST VALUE IS	0.02698 AT (	440277.01,	4246783.81,	183.80, 284.10,	0.00)	DC
	2ND HIGHEST VALUE IS	0.02328 AT (	440227.01,	4246783.81,	183.70, 284.10,	0.00)	DC
	3RD HIGHEST VALUE IS	0.01772 AT (	440177.01,	4246733.81,	181.40, 284.10,	0.00)	DC
	4TH HIGHEST VALUE IS	0.01380 AT (	440277.01,	4246733.81,	183.70, 284.10,	0.00)	DC
	5TH HIGHEST VALUE IS	0.01148 AT (	440315.68,	4246722.48,	184.10, 284.10,	0.00)	DC
	6TH HIGHEST VALUE IS	0.01081 AT (	440515.68,	4246822.48,	173.10, 302.70,	0.00)	DC
	7TH HIGHEST VALUE IS	0.01065 AT (	440127.01,	4246683.81,	180.50, 322.90,	0.00)	DC
	8TH HIGHEST VALUE IS	0.01023 AT (	440327.01,	4246733.81,	184.40, 284.10,	0.00)	DC
	9TH HIGHEST VALUE IS	0.01016 AT (	440177.01,	4246683.81,	180.30, 322.90,	0.00)	DC
	10TH HIGHEST VALUE IS	0.01008 AT (	440215.68,	4246722.48,	181.80, 284.10,	0.00)	DC
1RX	1ST HIGHEST VALUE IS	0.00287 AT (	440077.01,	4247283.81,	173.10, 272.80,	0.00)	DC
	2ND HIGHEST VALUE IS	0.00273 AT (	439977.01,	4247083.81,	173.10, 184.70,	0.00)	DC
	3RD HIGHEST VALUE IS	0.00268 AT (	439877.01,	4247133.81,	173.10, 184.90,	0.00)	DC
	4TH HIGHEST VALUE IS	0.00266 AT (	439927.01,	4247333.81,	173.10, 327.10,	0.00)	DC
	5TH HIGHEST VALUE IS	0.00255 AT (	439827.01,	4247133.81,	173.10, 185.00,	0.00)	DC
	6TH HIGHEST VALUE IS	0.00248 AT (	439915.68,	4247322.48,	173.10, 327.10,	0.00)	DC
	7TH HIGHEST VALUE IS	0.00214 AT (	440127.01,	4247283.81,	173.10, 272.80,	0.00)	DC
	8TH HIGHEST VALUE IS	0.00209 AT (	440015.68,	4247322.48,	173.10, 327.10,	0.00)	DC
	9TH HIGHEST VALUE IS	0.00202 AT (	439927.01,	4247383.81,	173.10, 327.10,	0.00)	DC
	10TH HIGHEST VALUE IS	0.00197 AT (	439915.68,	4247122.48,	173.10, 184.60,	0.00)	DC
2RX	1ST HIGHEST VALUE IS	0.00000 AT (	0.00,	0.00,	0.00, 0.00,	0.00)	
	2ND HIGHEST VALUE IS	0.00000 AT (	0.00,	0.00,	0.00, 0.00,	0.00)	
	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)	
3RX	1ST HIGHEST VALUE IS	0.00000 AT (	0.00,	0.00,	0.00, 0.00,	0.00)	
	2ND HIGHEST VALUE IS	0.00000 AT (	0.00,	0.00,	0.00, 0.00,	0.00)	
	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)	



*** AERMOD - VERSION 22112 *** *** Ethylene oxide - South Charleston, WV Mar 23-24, 2022 Monitoring Eve *** 07/25/22
*** AERMET - VERSION 22112 *** *** Oxide Adducts; Triton; Covestro; Chemical Mixing *** 08:20:38
*** MODELOPTS: RegDFault CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U* PAGE 5

*** THE SUMMARY OF MAXIMUM PERIOD (25 HRS) RESULTS ***

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

GROUP ID		AVERAGE CONC		RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
789RX	1ST HIGHEST VALUE IS	0.02400 AT (	440177.01,	4246983.81,	173.10, 183.90,	0.00) DC
	2ND HIGHEST VALUE IS	0.02203 AT (	440227.01,	4246983.81,	173.10, 183.90,	0.00) DC
	3RD HIGHEST VALUE IS	0.02072 AT (	440327.01,	4246933.81,	173.10, 183.90,	0.00) DC
	4TH HIGHEST VALUE IS	0.01891 AT (	440315.68,	4246922.48,	173.10, 283.60,	0.00) DC
	5TH HIGHEST VALUE IS	0.01480 AT (	440277.01,	4246933.81,	173.10, 183.90,	0.00) DC
	6TH HIGHEST VALUE IS	0.01373 AT (	440027.01,	4246783.81,	182.00, 282.30,	0.00) DC
	7TH HIGHEST VALUE IS	0.01253 AT (	440115.68,	4246822.48,	183.50, 183.50,	0.00) DC
	8TH HIGHEST VALUE IS	0.01226 AT (	440077.01,	4246783.81,	182.10, 284.10,	0.00) DC
	9TH HIGHEST VALUE IS	0.01157 AT (	440227.01,	4247283.81,	173.10, 272.80,	0.00) DC
	10TH HIGHEST VALUE IS	0.01123 AT (	440027.01,	4246833.81,	183.70, 183.70,	0.00) DC
CPOINT	1ST HIGHEST VALUE IS	0.02431 AT (	440177.01,	4246983.81,	173.10, 183.90,	0.00) DC
	2ND HIGHEST VALUE IS	0.02261 AT (	440227.01,	4246983.81,	173.10, 183.90,	0.00) DC
	3RD HIGHEST VALUE IS	0.02150 AT (	440327.01,	4246933.81,	173.10, 183.90,	0.00) DC
	4TH HIGHEST VALUE IS	0.01953 AT (	440315.68,	4246922.48,	173.10, 283.60,	0.00) DC
	5TH HIGHEST VALUE IS	0.01528 AT (	440277.01,	4246933.81,	173.10, 183.90,	0.00) DC
	6TH HIGHEST VALUE IS	0.01435 AT (	440027.01,	4246783.81,	182.00, 282.30,	0.00) DC
	7TH HIGHEST VALUE IS	0.01344 AT (	440115.68,	4246822.48,	183.50, 183.50,	0.00) DC
	8TH HIGHEST VALUE IS	0.01297 AT (	440227.01,	4247283.81,	173.10, 272.80,	0.00) DC
	9TH HIGHEST VALUE IS	0.01282 AT (	440077.01,	4246783.81,	182.10, 284.10,	0.00) DC
	10TH HIGHEST VALUE IS	0.01201 AT (	440027.01,	4246833.81,	183.70, 183.70,	0.00) DC
CE003F	1ST HIGHEST VALUE IS	0.04048 AT (	439915.68,	4247322.48,	173.10, 327.10,	0.00) DC
	2ND HIGHEST VALUE IS	0.03887 AT (	439927.01,	4247333.81,	173.10, 327.10,	0.00) DC
	3RD HIGHEST VALUE IS	0.02603 AT (	439877.01,	4247333.81,	173.10, 327.10,	0.00) DC
	4TH HIGHEST VALUE IS	0.02599 AT (	439927.01,	4247383.81,	173.10, 327.10,	0.00) DC
	5TH HIGHEST VALUE IS	0.02564 AT (	440077.01,	4247283.81,	173.10, 272.80,	0.00) DC
	6TH HIGHEST VALUE IS	0.02336 AT (	439877.01,	4247383.81,	173.10, 327.10,	0.00) DC
	7TH HIGHEST VALUE IS	0.02139 AT (	440015.68,	4247322.48,	173.10, 327.10,	0.00) DC
	8TH HIGHEST VALUE IS	0.02135 AT (	439963.24,	4247370.04,	173.10, 327.10,	0.00) DC
	9TH HIGHEST VALUE IS	0.02101 AT (	439977.01,	4247333.81,	173.10, 327.10,	0.00) DC
	10TH HIGHEST VALUE IS	0.01996 AT (	439915.68,	4247422.48,	173.10, 327.10,	0.00) DC
CPIVF	1ST HIGHEST VALUE IS	0.06101 AT (	440177.01,	4246983.81,	173.10, 183.90,	0.00) DC
	2ND HIGHEST VALUE IS	0.05931 AT (	440227.01,	4246983.81,	173.10, 183.90,	0.00) DC
	3RD HIGHEST VALUE IS	0.04329 AT (	440227.01,	4247283.81,	173.10, 272.80,	0.00) DC
	4TH HIGHEST VALUE IS	0.04209 AT (	440277.01,	4247283.81,	173.10, 272.80,	0.00) DC
	5TH HIGHEST VALUE IS	0.03886 AT (	440127.01,	4246983.81,	173.10, 184.10,	0.00) DC
	6TH HIGHEST VALUE IS	0.03386 AT (	440177.01,	4247283.81,	173.10, 272.80,	0.00) DC
	7TH HIGHEST VALUE IS	0.03262 AT (	440227.01,	4246933.81,	173.10, 183.90,	0.00) DC
	8TH HIGHEST VALUE IS	0.03243 AT (	440215.68,	4247322.48,	173.10, 272.80,	0.00) DC
	9TH HIGHEST VALUE IS	0.03134 AT (	440327.01,	4247283.81,	173.10, 272.80,	0.00) DC
	10TH HIGHEST VALUE IS	0.03078 AT (	440227.01,	4247333.81,	173.10, 272.80,	0.00) DC



*** AERMOD - VERSION 22112 *** *** Ethylene oxide - South Charleston, WV Mar 23-24, 2022 Monitoring Eve *** 07/25/22
*** AERMET - VERSION 22112 *** *** Oxide Adducts; Triton; Covestro; Chemical Mixing *** 08:20:38
*** MODELOPTS: RegDFault CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U* PAGE 6

*** THE SUMMARY OF MAXIMUM PERIOD (25 HRS) RESULTS ***

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

GROUP ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
CFUGIT	1ST HIGHEST VALUE IS	0.06848 AT (440177.01, 4246983.81, 173.10, 183.90, 0.00)	DC	
	2ND HIGHEST VALUE IS	0.06674 AT (440227.01, 4246983.81, 173.10, 183.90, 0.00)	DC	
	3RD HIGHEST VALUE IS	0.05542 AT (440227.01, 4247283.81, 173.10, 272.80, 0.00)	DC	
	4TH HIGHEST VALUE IS	0.05249 AT (440277.01, 4247283.81, 173.10, 272.80, 0.00)	DC	
	5TH HIGHEST VALUE IS	0.05186 AT (439915.68, 4247322.48, 173.10, 327.10, 0.00)	DC	
	6TH HIGHEST VALUE IS	0.04900 AT (439927.01, 4247333.81, 173.10, 327.10, 0.00)	DC	
	7TH HIGHEST VALUE IS	0.04843 AT (440177.01, 4247283.81, 173.10, 272.80, 0.00)	DC	
	8TH HIGHEST VALUE IS	0.04597 AT (440127.01, 4246983.81, 173.10, 184.10, 0.00)	DC	
	9TH HIGHEST VALUE IS	0.04339 AT (440215.68, 4247322.48, 173.10, 272.80, 0.00)	DC	
	10TH HIGHEST VALUE IS	0.04113 AT (440077.01, 4247283.81, 173.10, 272.80, 0.00)	DC	
COVESTRO	1ST HIGHEST VALUE IS	0.09279 AT (440177.01, 4246983.81, 173.10, 183.90, 0.00)	DC	
	2ND HIGHEST VALUE IS	0.08935 AT (440227.01, 4246983.81, 173.10, 183.90, 0.00)	DC	
	3RD HIGHEST VALUE IS	0.06840 AT (440227.01, 4247283.81, 173.10, 272.80, 0.00)	DC	
	4TH HIGHEST VALUE IS	0.06386 AT (440277.01, 4247283.81, 173.10, 272.80, 0.00)	DC	
	5TH HIGHEST VALUE IS	0.05835 AT (440177.01, 4247283.81, 173.10, 272.80, 0.00)	DC	
	6TH HIGHEST VALUE IS	0.05519 AT (439915.68, 4247322.48, 173.10, 327.10, 0.00)	DC	
	7TH HIGHEST VALUE IS	0.05494 AT (440327.01, 4246933.81, 173.10, 183.90, 0.00)	DC	
	8TH HIGHEST VALUE IS	0.05405 AT (440215.68, 4247322.48, 173.10, 272.80, 0.00)	DC	
	9TH HIGHEST VALUE IS	0.05227 AT (439927.01, 4247333.81, 173.10, 327.10, 0.00)	DC	
	10TH HIGHEST VALUE IS	0.05201 AT (440127.01, 4246983.81, 173.10, 184.10, 0.00)	DC	
TE10813	1ST HIGHEST VALUE IS	0.00710 AT (440077.01, 4247383.81, 173.10, 327.10, 0.00)	DC	
	2ND HIGHEST VALUE IS	0.00637 AT (440077.01, 4247333.81, 173.10, 327.10, 0.00)	DC	
	3RD HIGHEST VALUE IS	0.00636 AT (440077.01, 4247433.81, 175.70, 327.10, 0.00)	DC	
	4TH HIGHEST VALUE IS	0.00597 AT (440115.68, 4247322.48, 173.10, 305.60, 0.00)	DC	
	5TH HIGHEST VALUE IS	0.00594 AT (440101.78, 4247450.15, 181.45, 327.12, 0.00)	DC	
	6TH HIGHEST VALUE IS	0.00589 AT (440127.01, 4247333.81, 173.10, 305.60, 0.00)	DC	
	7TH HIGHEST VALUE IS	0.00578 AT (440127.01, 4247383.81, 173.10, 327.10, 0.00)	DC	
	8TH HIGHEST VALUE IS	0.00564 AT (439277.01, 4246133.81, 206.10, 269.70, 0.00)	DC	
	9TH HIGHEST VALUE IS	0.00551 AT (440377.01, 4246433.81, 209.00, 284.10, 0.00)	DC	
	10TH HIGHEST VALUE IS	0.00550 AT (440077.01, 4247483.81, 181.10, 327.10, 0.00)	DC	
T_L_ALL	1ST HIGHEST VALUE IS	0.00956 AT (440127.01, 4247283.81, 173.10, 272.80, 0.00)	DC	
	2ND HIGHEST VALUE IS	0.00861 AT (440077.01, 4247283.81, 173.10, 272.80, 0.00)	DC	
	3RD HIGHEST VALUE IS	0.00691 AT (440119.85, 4247306.86, 173.10, 272.80, 0.00)	DC	
	4TH HIGHEST VALUE IS	0.00632 AT (439977.01, 4247083.81, 173.10, 184.70, 0.00)	DC	
	5TH HIGHEST VALUE IS	0.00623 AT (440177.01, 4247283.81, 173.10, 272.80, 0.00)	DC	
	6TH HIGHEST VALUE IS	0.00585 AT (440115.68, 4247322.48, 173.10, 305.60, 0.00)	DC	
	7TH HIGHEST VALUE IS	0.00545 AT (440077.01, 4247333.81, 173.10, 327.10, 0.00)	DC	
	8TH HIGHEST VALUE IS	0.00498 AT (440127.01, 4247333.81, 173.10, 305.60, 0.00)	DC	
	9TH HIGHEST VALUE IS	0.00485 AT (440227.01, 4247283.81, 173.10, 272.80, 0.00)	DC	
	10TH HIGHEST VALUE IS	0.00474 AT (440015.68, 4247322.48, 173.10, 327.10, 0.00)	DC	



*** AERMOD - VERSION 22112 *** *** Ethylene oxide - South Charleston, WV Mar 23-24, 2022 Monitoring Eve *** 07/25/22
*** AERMET - VERSION 22112 *** *** Oxide Adducts; Triton; Covestro; Chemical Mixing *** 08:20:38
*** MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U* PAGE 7

*** THE SUMMARY OF MAXIMUM PERIOD (25 HRS) RESULTS ***

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

GROUP ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
T_T_ALL	1ST HIGHEST VALUE IS 0.01251 AT (440077.01, 4247283.81, 173.10, 272.80, 0.00)	DC		
	2ND HIGHEST VALUE IS 0.00921 AT (440077.01, 4247333.81, 173.10, 327.10, 0.00)	DC		
	3RD HIGHEST VALUE IS 0.00758 AT (440027.01, 4247333.81, 173.10, 327.10, 0.00)	DC		
	4TH HIGHEST VALUE IS 0.00693 AT (440177.01, 4247283.81, 173.10, 272.80, 0.00)	DC		
	5TH HIGHEST VALUE IS 0.00686 AT (440227.01, 4247283.81, 173.10, 272.80, 0.00)	DC		
	6TH HIGHEST VALUE IS 0.00669 AT (440115.68, 4247322.48, 173.10, 305.60, 0.00)	DC		
	7TH HIGHEST VALUE IS 0.00664 AT (440015.68, 4247322.48, 173.10, 327.10, 0.00)	DC		
	8TH HIGHEST VALUE IS 0.00656 AT (440119.85, 4247306.86, 173.10, 272.80, 0.00)	DC		
	9TH HIGHEST VALUE IS 0.00632 AT (440127.01, 4247283.81, 173.10, 272.80, 0.00)	DC		
	10TH HIGHEST VALUE IS 0.00626 AT (440077.01, 4247383.81, 173.10, 327.10, 0.00)	DC		
T_POINT	1ST HIGHEST VALUE IS 0.02417 AT (440077.01, 4247283.81, 173.10, 272.80, 0.00)	DC		
	2ND HIGHEST VALUE IS 0.02103 AT (440077.01, 4247333.81, 173.10, 327.10, 0.00)	DC		
	3RD HIGHEST VALUE IS 0.01997 AT (440127.01, 4247283.81, 173.10, 272.80, 0.00)	DC		
	4TH HIGHEST VALUE IS 0.01873 AT (440119.85, 4247306.86, 173.10, 272.80, 0.00)	DC		
	5TH HIGHEST VALUE IS 0.01852 AT (440115.68, 4247322.48, 173.10, 305.60, 0.00)	DC		
	6TH HIGHEST VALUE IS 0.01702 AT (440077.01, 4247383.81, 173.10, 327.10, 0.00)	DC		
	7TH HIGHEST VALUE IS 0.01649 AT (440027.01, 4247333.81, 173.10, 327.10, 0.00)	DC		
	8TH HIGHEST VALUE IS 0.01628 AT (440127.01, 4247333.81, 173.10, 305.60, 0.00)	DC		
	9TH HIGHEST VALUE IS 0.01537 AT (440177.01, 4247283.81, 173.10, 272.80, 0.00)	DC		
	10TH HIGHEST VALUE IS 0.01516 AT (440227.01, 4247283.81, 173.10, 272.80, 0.00)	DC		
THF	1ST HIGHEST VALUE IS 0.01630 AT (440127.01, 4247283.81, 173.10, 272.80, 0.00)	DC		
	2ND HIGHEST VALUE IS 0.00915 AT (440119.85, 4247306.86, 173.10, 272.80, 0.00)	DC		
	3RD HIGHEST VALUE IS 0.00699 AT (440177.01, 4247283.81, 173.10, 272.80, 0.00)	DC		
	4TH HIGHEST VALUE IS 0.00676 AT (440115.68, 4247322.48, 173.10, 305.60, 0.00)	DC		
	5TH HIGHEST VALUE IS 0.00563 AT (440077.01, 4247283.81, 173.10, 272.80, 0.00)	DC		
	6TH HIGHEST VALUE IS 0.00539 AT (440127.01, 4247333.81, 173.10, 305.60, 0.00)	DC		
	7TH HIGHEST VALUE IS 0.00531 AT (440227.01, 4247283.81, 173.10, 272.80, 0.00)	DC		
	8TH HIGHEST VALUE IS 0.00442 AT (440077.01, 4247333.81, 173.10, 327.10, 0.00)	DC		
	9TH HIGHEST VALUE IS 0.00318 AT (440277.01, 4247283.81, 173.10, 272.80, 0.00)	DC		
	10TH HIGHEST VALUE IS 0.00295 AT (440215.68, 4247322.48, 173.10, 272.80, 0.00)	DC		
TRF	1ST HIGHEST VALUE IS 0.00700 AT (440077.01, 4247283.81, 173.10, 272.80, 0.00)	DC		
	2ND HIGHEST VALUE IS 0.00692 AT (440127.01, 4247283.81, 173.10, 272.80, 0.00)	DC		
	3RD HIGHEST VALUE IS 0.00597 AT (440119.85, 4247306.86, 173.10, 272.80, 0.00)	DC		
	4TH HIGHEST VALUE IS 0.00533 AT (440115.68, 4247322.48, 173.10, 305.60, 0.00)	DC		
	5TH HIGHEST VALUE IS 0.00500 AT (440077.01, 4247333.81, 173.10, 327.10, 0.00)	DC		
	6TH HIGHEST VALUE IS 0.00451 AT (440127.01, 4247333.81, 173.10, 305.60, 0.00)	DC		
	7TH HIGHEST VALUE IS 0.00360 AT (440227.01, 4247283.81, 173.10, 272.80, 0.00)	DC		
	8TH HIGHEST VALUE IS 0.00356 AT (440027.01, 4247333.81, 173.10, 327.10, 0.00)	DC		
	9TH HIGHEST VALUE IS 0.00354 AT (440077.01, 4247383.81, 173.10, 327.10, 0.00)	DC		
	10TH HIGHEST VALUE IS 0.00343 AT (440177.01, 4247283.81, 173.10, 272.80, 0.00)	DC		



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*** MODELOPTS: RegDFault CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U* PAGE 8

*** THE SUMMARY OF MAXIMUM PERIOD (25 HRS) RESULTS ***

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

GROUP ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
TFNC	1ST HIGHEST VALUE IS	0.01347 AT (439977.01, 4247333.81, 173.10, 327.10, 0.00)	DC	
	2ND HIGHEST VALUE IS	0.00879 AT (440077.01, 4247283.81, 173.10, 272.80, 0.00)	DC	
	3RD HIGHEST VALUE IS	0.00853 AT (440015.68, 4247322.48, 173.10, 327.10, 0.00)	DC	
	4TH HIGHEST VALUE IS	0.00672 AT (439963.24, 4247370.04, 173.10, 327.10, 0.00)	DC	
	5TH HIGHEST VALUE IS	0.00598 AT (439927.01, 4247333.81, 173.10, 327.10, 0.00)	DC	
	6TH HIGHEST VALUE IS	0.00586 AT (440027.01, 4247333.81, 173.10, 327.10, 0.00)	DC	
	7TH HIGHEST VALUE IS	0.00545 AT (439977.01, 4247383.81, 173.10, 327.10, 0.00)	DC	
	8TH HIGHEST VALUE IS	0.00510 AT (440127.01, 4247283.81, 173.10, 272.80, 0.00)	DC	
	9TH HIGHEST VALUE IS	0.00486 AT (439877.01, 4247133.81, 173.10, 184.90, 0.00)	DC	
	10TH HIGHEST VALUE IS	0.00484 AT (440115.68, 4247322.48, 173.10, 305.60, 0.00)	DC	
T_FUGIT	1ST HIGHEST VALUE IS	0.02831 AT (440127.01, 4247283.81, 173.10, 272.80, 0.00)	DC	
	2ND HIGHEST VALUE IS	0.02142 AT (440077.01, 4247283.81, 173.10, 272.80, 0.00)	DC	
	3RD HIGHEST VALUE IS	0.01953 AT (440119.85, 4247306.86, 173.10, 272.80, 0.00)	DC	
	4TH HIGHEST VALUE IS	0.01698 AT (439977.01, 4247333.81, 173.10, 327.10, 0.00)	DC	
	5TH HIGHEST VALUE IS	0.01692 AT (440115.68, 4247322.48, 173.10, 305.60, 0.00)	DC	
	6TH HIGHEST VALUE IS	0.01406 AT (440077.01, 4247333.81, 173.10, 327.10, 0.00)	DC	
	7TH HIGHEST VALUE IS	0.01402 AT (440177.01, 4247283.81, 173.10, 272.80, 0.00)	DC	
	8TH HIGHEST VALUE IS	0.01393 AT (440127.01, 4247333.81, 173.10, 305.60, 0.00)	DC	
	9TH HIGHEST VALUE IS	0.01347 AT (440015.68, 4247322.48, 173.10, 327.10, 0.00)	DC	
	10TH HIGHEST VALUE IS	0.01162 AT (440227.01, 4247283.81, 173.10, 272.80, 0.00)	DC	
TRITON	1ST HIGHEST VALUE IS	0.04828 AT (440127.01, 4247283.81, 173.10, 272.80, 0.00)	DC	
	2ND HIGHEST VALUE IS	0.04559 AT (440077.01, 4247283.81, 173.10, 272.80, 0.00)	DC	
	3RD HIGHEST VALUE IS	0.03825 AT (440119.85, 4247306.86, 173.10, 272.80, 0.00)	DC	
	4TH HIGHEST VALUE IS	0.03544 AT (440115.68, 4247322.48, 173.10, 305.60, 0.00)	DC	
	5TH HIGHEST VALUE IS	0.03509 AT (440077.01, 4247333.81, 173.10, 327.10, 0.00)	DC	
	6TH HIGHEST VALUE IS	0.03021 AT (440127.01, 4247333.81, 173.10, 305.60, 0.00)	DC	
	7TH HIGHEST VALUE IS	0.02939 AT (440177.01, 4247283.81, 173.10, 272.80, 0.00)	DC	
	8TH HIGHEST VALUE IS	0.02785 AT (440027.01, 4247333.81, 173.10, 327.10, 0.00)	DC	
	9TH HIGHEST VALUE IS	0.02774 AT (440015.68, 4247322.48, 173.10, 327.10, 0.00)	DC	
	10TH HIGHEST VALUE IS	0.02678 AT (440227.01, 4247283.81, 173.10, 272.80, 0.00)	DC	
OA_E70XP	1ST HIGHEST VALUE IS	0.27797 AT (439627.01, 4247233.81, 173.10, 327.10, 0.00)	DC	
	2ND HIGHEST VALUE IS	0.26243 AT (439619.85, 4247306.86, 180.30, 327.10, 0.00)	DC	
	3RD HIGHEST VALUE IS	0.25083 AT (440015.68, 4247022.48, 173.10, 184.90, 0.00)	DC	
	4TH HIGHEST VALUE IS	0.24937 AT (440027.01, 4247033.81, 173.10, 184.70, 0.00)	DC	
	5TH HIGHEST VALUE IS	0.24226 AT (439927.01, 4247083.81, 173.10, 185.00, 0.00)	DC	
	6TH HIGHEST VALUE IS	0.23776 AT (440077.01, 4247033.81, 173.10, 184.70, 0.00)	DC	
	7TH HIGHEST VALUE IS	0.23030 AT (440115.68, 4247022.48, 173.10, 184.10, 0.00)	DC	
	8TH HIGHEST VALUE IS	0.22209 AT (439977.01, 4247083.81, 173.10, 184.70, 0.00)	DC	
	9TH HIGHEST VALUE IS	0.22117 AT (440127.01, 4246983.81, 173.10, 184.10, 0.00)	DC	
	10TH HIGHEST VALUE IS	0.21229 AT (440177.01, 4246983.81, 173.10, 183.90, 0.00)	DC	



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*** MODELOPTS: RegDFault CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*										PAGE 9
*** THE SUMMARY OF MAXIMUM PERIOD (25 HRS) RESULTS ***										
** CONC OF OTHER IN MICROGRAMS/M**3 **										
GROUP ID	AVERAGE CONC			RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)				OF TYPE	NETWORK GRID-ID	
OA_TALLP	1ST HIGHEST VALUE IS	0.00483	AT (	439727.01,	4247183.81,	173.10,	311.00,	0.00)	DC	
	2ND HIGHEST VALUE IS	0.00479	AT (	439927.01,	4247083.81,	173.10,	185.00,	0.00)	DC	
	3RD HIGHEST VALUE IS	0.00468	AT (	439827.01,	4247133.81,	173.10,	185.00,	0.00)	DC	
	4TH HIGHEST VALUE IS	0.00453	AT (	440015.68,	4247022.48,	173.10,	184.90,	0.00)	DC	
	5TH HIGHEST VALUE IS	0.00437	AT (	439777.01,	4247183.81,	173.10,	184.40,	0.00)	DC	
	6TH HIGHEST VALUE IS	0.00429	AT (	440027.01,	4247033.81,	173.10,	184.70,	0.00)	DC	
	7TH HIGHEST VALUE IS	0.00407	AT (	439677.01,	4247233.81,	173.10,	327.10,	0.00)	DC	
	8TH HIGHEST VALUE IS	0.00381	AT (	439977.01,	4247083.81,	173.10,	184.70,	0.00)	DC	
	9TH HIGHEST VALUE IS	0.00379	AT (	439715.68,	4247222.48,	173.10,	327.10,	0.00)	DC	
	10TH HIGHEST VALUE IS	0.00374	AT (	439877.01,	4247133.81,	173.10,	184.90,	0.00)	DC	
OA_LALLP	1ST HIGHEST VALUE IS	0.00094	AT (	439527.01,	4247133.81,	184.50,	184.50,	0.00)	DC	
	2ND HIGHEST VALUE IS	0.00089	AT (	440015.68,	4247022.48,	173.10,	184.90,	0.00)	DC	
	3RD HIGHEST VALUE IS	0.00080	AT (	439577.01,	4246933.81,	183.70,	183.70,	0.00)	DC	
	4TH HIGHEST VALUE IS	0.00079	AT (	440027.01,	4247033.81,	173.10,	184.70,	0.00)	DC	
	5TH HIGHEST VALUE IS	0.00068	AT (	439527.01,	4246933.81,	183.60,	183.60,	0.00)	DC	
	6TH HIGHEST VALUE IS	0.00063	AT (	439515.68,	4247122.48,	184.70,	184.70,	0.00)	DC	
	7TH HIGHEST VALUE IS	0.00062	AT (	439615.68,	4247222.48,	173.00,	327.10,	0.00)	DC	
	8TH HIGHEST VALUE IS	0.00062	AT (	440077.01,	4247033.81,	173.10,	184.70,	0.00)	DC	
	9TH HIGHEST VALUE IS	0.00061	AT (	439827.01,	4247133.81,	173.10,	185.00,	0.00)	DC	
	10TH HIGHEST VALUE IS	0.00060	AT (	439927.01,	4247083.81,	173.10,	185.00,	0.00)	DC	
OA_POINT	1ST HIGHEST VALUE IS	0.28194	AT (	439627.01,	4247233.81,	173.10,	327.10,	0.00)	DC	
	2ND HIGHEST VALUE IS	0.26558	AT (	439619.85,	4247306.86,	180.30,	327.10,	0.00)	DC	
	3RD HIGHEST VALUE IS	0.25625	AT (	440015.68,	4247022.48,	173.10,	184.90,	0.00)	DC	
	4TH HIGHEST VALUE IS	0.25445	AT (	440027.01,	4247033.81,	173.10,	184.70,	0.00)	DC	
	5TH HIGHEST VALUE IS	0.24766	AT (	439927.01,	4247083.81,	173.10,	185.00,	0.00)	DC	
	6TH HIGHEST VALUE IS	0.24207	AT (	440077.01,	4247033.81,	173.10,	184.70,	0.00)	DC	
	7TH HIGHEST VALUE IS	0.23431	AT (	440115.68,	4247022.48,	173.10,	184.10,	0.00)	DC	
	8TH HIGHEST VALUE IS	0.22636	AT (	439977.01,	4247083.81,	173.10,	184.70,	0.00)	DC	
	9TH HIGHEST VALUE IS	0.22512	AT (	440127.01,	4246983.81,	173.10,	184.10,	0.00)	DC	
	10TH HIGHEST VALUE IS	0.21584	AT (	440177.01,	4246983.81,	173.10,	183.90,	0.00)	DC	
OAHZ2F	1ST HIGHEST VALUE IS	0.12431	AT (	439727.01,	4247183.81,	173.10,	311.00,	0.00)	DC	
	2ND HIGHEST VALUE IS	0.09080	AT (	439827.01,	4247133.81,	173.10,	185.00,	0.00)	DC	
	3RD HIGHEST VALUE IS	0.06914	AT (	439927.01,	4247083.81,	173.10,	185.00,	0.00)	DC	
	4TH HIGHEST VALUE IS	0.06100	AT (	439715.68,	4247222.48,	173.10,	327.10,	0.00)	DC	
	5TH HIGHEST VALUE IS	0.05842	AT (	439877.01,	4247133.81,	173.10,	184.90,	0.00)	DC	
	6TH HIGHEST VALUE IS	0.05708	AT (	439777.01,	4247183.81,	173.10,	184.40,	0.00)	DC	
	7TH HIGHEST VALUE IS	0.05533	AT (	439915.68,	4247122.48,	173.10,	184.60,	0.00)	DC	
	8TH HIGHEST VALUE IS	0.05283	AT (	439977.01,	4247083.81,	173.10,	184.70,	0.00)	DC	
	9TH HIGHEST VALUE IS	0.04095	AT (	439677.01,	4247233.81,	173.10,	327.10,	0.00)	DC	
	10TH HIGHEST VALUE IS	0.03394	AT (	440027.01,	4247033.81,	173.10,	184.70,	0.00)	DC	



*** AERMOD - VERSION 22112 ***									
*** AERMET - VERSION 22112 ***									
*** Ethylene oxide - South Charleston, WV Mar 23-24, 2022 Monitoring Eve ***									
*** Oxide Adducts; Triton; Covestro; Chemical Mixing ***									
*** MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*									
*** THE SUMMARY OF MAXIMUM PERIOD (25 HRS) RESULTS ***									
** CONC OF OTHER IN MICROGRAMS/M**3 **									
GROUP ID	AVERAGE CONC		RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)					OF TYPE	NETWORK GRID-ID
OAR45F	1ST HIGHEST VALUE IS	0.05503 AT (	439677.01,	4247233.81,	173.10,	327.10,	0.00)	DC	
	2ND HIGHEST VALUE IS	0.05271 AT (	439777.01,	4247183.81,	173.10,	184.40,	0.00)	DC	
	3RD HIGHEST VALUE IS	0.05244 AT (	439627.01,	4247233.81,	173.10,	327.10,	0.00)	DC	
	4TH HIGHEST VALUE IS	0.05174 AT (	439727.01,	4247183.81,	173.10,	311.00,	0.00)	DC	
	5TH HIGHEST VALUE IS	0.04472 AT (	439927.01,	4247083.81,	173.10,	185.00,	0.00)	DC	
	6TH HIGHEST VALUE IS	0.04441 AT (	439615.68,	4247222.48,	173.00,	327.10,	0.00)	DC	
	7TH HIGHEST VALUE IS	0.03941 AT (	439827.01,	4247133.81,	173.10,	185.00,	0.00)	DC	
	8TH HIGHEST VALUE IS	0.03919 AT (	439977.01,	4247083.81,	173.10,	184.70,	0.00)	DC	
	9TH HIGHEST VALUE IS	0.03651 AT (	439915.68,	4247122.48,	173.10,	184.60,	0.00)	DC	
	10TH HIGHEST VALUE IS	0.03525 AT (	439877.01,	4247133.81,	173.10,	184.90,	0.00)	DC	
OAR6F	1ST HIGHEST VALUE IS	0.00848 AT (	440015.68,	4247022.48,	173.10,	184.90,	0.00)	DC	
	2ND HIGHEST VALUE IS	0.00810 AT (	440027.01,	4247033.81,	173.10,	184.70,	0.00)	DC	
	3RD HIGHEST VALUE IS	0.00808 AT (	439927.01,	4247083.81,	173.10,	185.00,	0.00)	DC	
	4TH HIGHEST VALUE IS	0.00801 AT (	439615.68,	4247222.48,	173.00,	327.10,	0.00)	DC	
	5TH HIGHEST VALUE IS	0.00791 AT (	439627.01,	4247233.81,	173.10,	327.10,	0.00)	DC	
	6TH HIGHEST VALUE IS	0.00763 AT (	439677.01,	4247233.81,	173.10,	327.10,	0.00)	DC	
	7TH HIGHEST VALUE IS	0.00736 AT (	439827.01,	4247133.81,	173.10,	185.00,	0.00)	DC	
	8TH HIGHEST VALUE IS	0.00706 AT (	439577.01,	4246933.81,	183.70,	183.70,	0.00)	DC	
	9TH HIGHEST VALUE IS	0.00697 AT (	439527.01,	4246933.81,	183.60,	183.60,	0.00)	DC	
	10TH HIGHEST VALUE IS	0.00690 AT (	440077.01,	4247033.81,	173.10,	184.70,	0.00)	DC	
OAR7F	1ST HIGHEST VALUE IS	0.00585 AT (	439727.01,	4247183.81,	173.10,	311.00,	0.00)	DC	
	2ND HIGHEST VALUE IS	0.00501 AT (	439927.01,	4247083.81,	173.10,	185.00,	0.00)	DC	
	3RD HIGHEST VALUE IS	0.00469 AT (	439827.01,	4247133.81,	173.10,	185.00,	0.00)	DC	
	4TH HIGHEST VALUE IS	0.00447 AT (	439715.68,	4247222.48,	173.10,	327.10,	0.00)	DC	
	5TH HIGHEST VALUE IS	0.00433 AT (	439677.01,	4247233.81,	173.10,	327.10,	0.00)	DC	
	6TH HIGHEST VALUE IS	0.00404 AT (	439977.01,	4247083.81,	173.10,	184.70,	0.00)	DC	
	7TH HIGHEST VALUE IS	0.00384 AT (	440027.01,	4247033.81,	173.10,	184.70,	0.00)	DC	
	8TH HIGHEST VALUE IS	0.00374 AT (	440015.68,	4247022.48,	173.10,	184.90,	0.00)	DC	
	9TH HIGHEST VALUE IS	0.00372 AT (	439777.01,	4247183.81,	173.10,	184.40,	0.00)	DC	
	10TH HIGHEST VALUE IS	0.00338 AT (	440077.01,	4247033.81,	173.10,	184.70,	0.00)	DC	
OAWTLF	1ST HIGHEST VALUE IS	0.10049 AT (	439619.85,	4247306.86,	180.30,	327.10,	0.00)	DC	
	2ND HIGHEST VALUE IS	0.03826 AT (	439477.01,	4247283.81,	173.00,	327.10,	0.00)	DC	
	3RD HIGHEST VALUE IS	0.03294 AT (	439427.01,	4247283.81,	173.00,	327.10,	0.00)	DC	
	4TH HIGHEST VALUE IS	0.02901 AT (	439377.01,	4247283.81,	173.00,	327.10,	0.00)	DC	
	5TH HIGHEST VALUE IS	0.02680 AT (	439527.01,	4247233.81,	173.00,	327.10,	0.00)	DC	
	6TH HIGHEST VALUE IS	0.02642 AT (	439227.01,	4247333.81,	173.00,	327.10,	0.00)	DC	
	7TH HIGHEST VALUE IS	0.02523 AT (	439477.01,	4247233.81,	173.00,	327.10,	0.00)	DC	
	8TH HIGHEST VALUE IS	0.02482 AT (	439327.01,	4247283.81,	173.00,	327.10,	0.00)	DC	
	9TH HIGHEST VALUE IS	0.02445 AT (	439515.68,	4247222.48,	173.00,	327.10,	0.00)	DC	
	10TH HIGHEST VALUE IS	0.02299 AT (	439427.01,	4247233.81,	173.00,	327.10,	0.00)	DC	



*** AERMOD - VERSION 22112 *** *** Ethylene oxide - South Charleston, WV Mar 23-24, 2022 Monitoring Eve *** 07/25/22
*** AERMET - VERSION 22112 *** *** Oxide Adducts; Triton; Covestro; Chemical Mixing *** 08:20:38
*** MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U* PAGE 11

*** THE SUMMARY OF MAXIMUM PERIOD (25 HRS) RESULTS ***

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

GROUP ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
OA_LIBF	1ST HIGHEST VALUE IS 0.04897 AT (439727.01, 4247183.81, 173.10, 311.00, 0.00) DC			
	2ND HIGHEST VALUE IS 0.03573 AT (439715.68, 4247222.48, 173.10, 327.10, 0.00) DC			
	3RD HIGHEST VALUE IS 0.03540 AT (439777.01, 4247183.81, 173.10, 184.40, 0.00) DC			
	4TH HIGHEST VALUE IS 0.01590 AT (439677.01, 4247233.81, 173.10, 327.10, 0.00) DC			
	5TH HIGHEST VALUE IS 0.01423 AT (439713.24, 4247370.04, 173.10, 327.10, 0.00) DC			
	6TH HIGHEST VALUE IS 0.01342 AT (439619.85, 4247306.86, 180.30, 327.10, 0.00) DC			
	7TH HIGHEST VALUE IS 0.01316 AT (439727.01, 4247383.81, 173.10, 327.10, 0.00) DC			
	8TH HIGHEST VALUE IS 0.01208 AT (439827.01, 4247333.81, 173.10, 327.10, 0.00) DC			
	9TH HIGHEST VALUE IS 0.01182 AT (439777.01, 4247383.81, 173.10, 327.10, 0.00) DC			
	10TH HIGHEST VALUE IS 0.01064 AT (439827.01, 4247133.81, 173.10, 185.00, 0.00) DC			
OA_FUGIT	1ST HIGHEST VALUE IS 0.24759 AT (439727.01, 4247183.81, 173.10, 311.00, 0.00) DC			
	2ND HIGHEST VALUE IS 0.17472 AT (439619.85, 4247306.86, 180.30, 327.10, 0.00) DC			
	3RD HIGHEST VALUE IS 0.16558 AT (439777.01, 4247183.81, 173.10, 184.40, 0.00) DC			
	4TH HIGHEST VALUE IS 0.16029 AT (439827.01, 4247133.81, 173.10, 185.00, 0.00) DC			
	5TH HIGHEST VALUE IS 0.15212 AT (439715.68, 4247222.48, 173.10, 327.10, 0.00) DC			
	6TH HIGHEST VALUE IS 0.14042 AT (439677.01, 4247233.81, 173.10, 327.10, 0.00) DC			
	7TH HIGHEST VALUE IS 0.13613 AT (439927.01, 4247083.81, 173.10, 185.00, 0.00) DC			
	8TH HIGHEST VALUE IS 0.11652 AT (439877.01, 4247133.81, 173.10, 184.90, 0.00) DC			
	9TH HIGHEST VALUE IS 0.11211 AT (439627.01, 4247233.81, 173.10, 327.10, 0.00) DC			
	10TH HIGHEST VALUE IS 0.11188 AT (439915.68, 4247122.48, 173.10, 184.60, 0.00) DC			
OA_ALL	1ST HIGHEST VALUE IS 0.44030 AT (439619.85, 4247306.86, 180.30, 327.10, 0.00) DC			
	2ND HIGHEST VALUE IS 0.39405 AT (439627.01, 4247233.81, 173.10, 327.10, 0.00) DC			
	3RD HIGHEST VALUE IS 0.38379 AT (439927.01, 4247083.81, 173.10, 185.00, 0.00) DC			
	4TH HIGHEST VALUE IS 0.37650 AT (439777.01, 4247183.81, 173.10, 184.40, 0.00) DC			
	5TH HIGHEST VALUE IS 0.37246 AT (439727.01, 4247183.81, 173.10, 311.00, 0.00) DC			
	6TH HIGHEST VALUE IS 0.35568 AT (439677.01, 4247233.81, 173.10, 327.10, 0.00) DC			
	7TH HIGHEST VALUE IS 0.33784 AT (440027.01, 4247033.81, 173.10, 184.70, 0.00) DC			
	8TH HIGHEST VALUE IS 0.33732 AT (439977.01, 4247083.81, 173.10, 184.70, 0.00) DC			
	9TH HIGHEST VALUE IS 0.33491 AT (440015.68, 4247022.48, 173.10, 184.90, 0.00) DC			
	10TH HIGHEST VALUE IS 0.31817 AT (440077.01, 4247033.81, 173.10, 184.70, 0.00) DC			
UCC_SC	1ST HIGHEST VALUE IS 0.44453 AT (439619.85, 4247306.86, 180.30, 327.10, 0.00) DC			
	2ND HIGHEST VALUE IS 0.39789 AT (439627.01, 4247233.81, 173.10, 327.10, 0.00) DC			
	3RD HIGHEST VALUE IS 0.39566 AT (439927.01, 4247083.81, 173.10, 185.00, 0.00) DC			
	4TH HIGHEST VALUE IS 0.38251 AT (439777.01, 4247183.81, 173.10, 184.40, 0.00) DC			
	5TH HIGHEST VALUE IS 0.37754 AT (439727.01, 4247183.81, 173.10, 311.00, 0.00) DC			
	6TH HIGHEST VALUE IS 0.35999 AT (439677.01, 4247233.81, 173.10, 327.10, 0.00) DC			
	7TH HIGHEST VALUE IS 0.35612 AT (439977.01, 4247083.81, 173.10, 184.70, 0.00) DC			
	8TH HIGHEST VALUE IS 0.35230 AT (440027.01, 4247033.81, 173.10, 184.70, 0.00) DC			
	9TH HIGHEST VALUE IS 0.34891 AT (440015.68, 4247022.48, 173.10, 184.90, 0.00) DC			
	10TH HIGHEST VALUE IS 0.33049 AT (440077.01, 4247033.81, 173.10, 184.70, 0.00) DC			



*** AERMOD - VERSION 22112 *** *** Ethylene oxide - South Charleston, WV Mar 23-24, 2022 Monitoring Eve *** 07/25/22
*** AERMET - VERSION 22112 *** *** Oxide Adducts; Triton; Covestro; Chemical Mixing *** 08:20:38
*** MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U* PAGE 12

*** THE SUMMARY OF MAXIMUM PERIOD (25 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 0.45770 AT (439619.85, 4247306.86, 180.30, 327.10, 0.00)	DC		
	2ND HIGHEST VALUE IS 0.41939 AT (439927.01, 4247083.81, 173.10, 185.00, 0.00)	DC		
	3RD HIGHEST VALUE IS 0.40788 AT (439627.01, 4247233.81, 173.10, 327.10, 0.00)	DC		
	4TH HIGHEST VALUE IS 0.39954 AT (439777.01, 4247183.81, 173.10, 184.40, 0.00)	DC		
	5TH HIGHEST VALUE IS 0.39122 AT (439727.01, 4247183.81, 173.10, 311.00, 0.00)	DC		
	6TH HIGHEST VALUE IS 0.38272 AT (439977.01, 4247083.81, 173.10, 184.70, 0.00)	DC		
	7TH HIGHEST VALUE IS 0.37851 AT (440027.01, 4247033.81, 173.10, 184.70, 0.00)	DC		
	8TH HIGHEST VALUE IS 0.37351 AT (440015.68, 4247022.48, 173.10, 184.90, 0.00)	DC		
	9TH HIGHEST VALUE IS 0.37179 AT (439677.01, 4247233.81, 173.10, 327.10, 0.00)	DC		
	10TH HIGHEST VALUE IS 0.37003 AT (440177.01, 4246983.81, 173.10, 183.90, 0.00)	DC		

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



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*** AERMOD - VERSION 22112 *** *** Ethylene oxide - South Charleston, WV Mar 23-24, 2022 Monitoring Eve ***
*** AERMET - VERSION 22112 *** *** Oxide Adducts; Triton; Covestro; Chemical Mixing ***
*** MODELOPTs: RegDFAULT 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 45 Warning Message(s)
A Total of 11 Informational Message(s)
A Total of 25 Hours Were Processed
A Total of 0 Calm Hours Identified
A Total of 0 Missing Hours Identified ( 0.00 Percent)

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

***** WARNING MESSAGES *****
SO W320 20 PPARM: Input Parameter May Be Out-of-Range for Parameter QS
SO W320 20 PPARM: Input Parameter May Be Out-of-Range for Parameter VS
SO W320 21 PPARM: Input Parameter May Be Out-of-Range for Parameter VS
SO W320 22 PPARM: Input Parameter May Be Out-of-Range for Parameter QS
SO W320 22 PPARM: Input Parameter May Be Out-of-Range for Parameter VS
SO W320 23 PPARM: Input Parameter May Be Out-of-Range for Parameter QS
SO W320 93 PPARM: Input Parameter May Be Out-of-Range for Parameter QS
SO W320 94 PPARM: Input Parameter May Be Out-of-Range for Parameter QS
SO W320 122 PPARM: Input Parameter May Be Out-of-Range for Parameter QS
SO W320 132 PPARM: Input Parameter May Be Out-of-Range for Parameter QS
SO W320 166 PPARM: Input Parameter May Be Out-of-Range for Parameter QS
SO W390 197 LPARM: Aspect ratio (L/W) of LINE source greater than 100 OAWTIL
SO W320 252 PPARM: Input Parameter May Be Out-of-Range for Parameter QS
SO W320 254 PPARM: Input Parameter May Be Out-of-Range for Parameter QS
SO W320 261 PPARM: Input Parameter May Be Out-of-Range for Parameter QS
SO W320 266 PPARM: Input Parameter May Be Out-of-Range for Parameter QS
SO W320 267 PPARM: Input Parameter May Be Out-of-Range for Parameter QS
SO W320 268 PPARM: Input Parameter May Be Out-of-Range for Parameter QS
SO W320 321 PPARM: Input Parameter May Be Out-of-Range for Parameter QS
SO W320 322 PPARM: Input Parameter May Be Out-of-Range for Parameter QS
ME W187 28 MEOpen: ADJ_U* Option for Stable Low winds used in AERMET
OU W565 32 PERPLT: Possible Conflict with Dynamically Allocated FUNIT PLOTFILE
OU W565 38 PERPLT: Possible Conflict with Dynamically Allocated FUNIT PLOTFILE
OU W565 49 PERPLT: Possible Conflict with Dynamically Allocated FUNIT PLOTFILE
OU W565 50 PERPLT: Possible Conflict with Dynamically Allocated FUNIT PLOTFILE
OU W565 51 PERPLT: Possible Conflict with Dynamically Allocated FUNIT PLOTFILE
OU W565 52 PERPLT: Possible Conflict with Dynamically Allocated FUNIT PLOTFILE
OU W565 53 PERPLT: Possible Conflict with Dynamically Allocated FUNIT PLOTFILE
OU W565 54 PERPLT: Possible Conflict with Dynamically Allocated FUNIT PLOTFILE
OU W565 55 PERPLT: Possible Conflict with Dynamically Allocated FUNIT PLOTFILE
OU W565 56 PERPLT: Possible Conflict with Dynamically Allocated FUNIT PLOTFILE
OU W565 57 PERPLT: Possible Conflict with Dynamically Allocated FUNIT PLOTFILE
OU W565 60 PERPLT: Possible Conflict with Dynamically Allocated FUNIT PLOTFILE
OU W565 61 PERPLT: Possible Conflict with Dynamically Allocated FUNIT PLOTFILE
OU W565 62 PERPLT: Possible Conflict with Dynamically Allocated FUNIT PLOTFILE
OU W565 63 PERPLT: Possible Conflict with Dynamically Allocated FUNIT PLOTFILE
OU W565 64 PERPLT: Possible Conflict with Dynamically Allocated FUNIT PLOTFILE
OU W565 65 PERPLT: Possible Conflict with Dynamically Allocated FUNIT PLOTFILE
OU W565 66 PERPLT: Possible Conflict with Dynamically Allocated FUNIT PLOTFILE
OU W565 67 PERPLT: Possible Conflict with Dynamically Allocated FUNIT PLOTFILE
OU W565 68 PERPLT: Possible Conflict with Dynamically Allocated FUNIT PLOTFILE
OU W565 69 PERPLT: Possible Conflict with Dynamically Allocated FUNIT PLOTFILE
OU W565 70 PERPLT: Possible Conflict with Dynamically Allocated FUNIT PLOTFILE
OU W565 71 PERPLT: Possible Conflict with Dynamically Allocated FUNIT PLOTFILE
OU W565 74 PERPLT: Possible Conflict with Dynamically Allocated FUNIT PLOTFILE
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April Monitoring Event AERMOD Summary File: Institute

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*** AERMOD - VERSION 22112 *** *** Ethylene oxide - Institute *** 08/23/22
*** AERMET - VERSION 22112 *** *** Ethylene Oxide Distribution AND Polyox Processes *** 16:01:46
*** MODEL_OPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U* *** 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.
* ADJ_U* Use ADJ_U* option for SBL in AERMET
* Model Assumes No FLAGPOLE Receptor Heights.
* The User Specified a Pollutant Type of: OTHER

**Model Calculates PERIOD Averages Only

**This Run Includes: 26 Source(s); 21 Source Group(s); and 15537 Receptor(s)

with: 7 POINT(s), including
      0 POINTCAP(s) and 0 POINTHOR(s)
and: 19 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 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: 22112

**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)

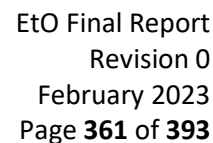
**NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours
                                                    m for Missing Hours
                                                    b for Both Calm and Missing Hours

**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 180.24 ; 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 = 14.6 MB of RAM.

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

**Detailed Error/Message File: error.fil
**File for Summary of Results: Summary.sum
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[illegible]



*** AERMOD - VERSION 22112 *** *** Ethylene oxide - Institute *** 08/23/22
*** AERMET - VERSION 22112 *** *** Ethylene Oxide Distribution AND Polyox Processes *** 16:01:46
PAGE 3

*** MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*
*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file: WV_APR_22.SFC Met Version: 22112
Profile file: WV_APR_22.PFL
Surface format: FREE
Profile format: FREE
Surface station no.: 13866 Upper air station no.: 53829
Name: INSTITUTE/SOUTH CHARLESTON SITE, WV Name: UNKNOWN
Year: 2022 Year: 2022

First 24 hours of scalar data																						
YR	MO	DY	JDY	HR	HO	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O	LEN	Z0	BOWEN	ALBEDO	REF	WS	WD	HT	REF	TA	HT
22	04	25	115	01	-999.0	-9.000	-9.000	-9.000	-999.	-999999.0	0.01	0.63	1.00	0.28	134.	7.9	288.9	7.9				
22	04	25	115	02	-2.2	0.070	-9.000	-9.000	-999.	44.	13.3	0.26	0.63	1.00	0.54	118.	7.9	288.9	7.9			
22	04	25	115	03	-4.8	0.095	-9.000	-9.000	-999.	70.	15.6	0.26	0.63	1.00	0.85	117.	7.9	288.5	7.9			
22	04	25	115	04	999.0	9.000	-9.000	-9.000	-999.	-999999.0	0.37	0.63	1.00	0.58	63.	7.9	288.4	7.9				
22	04	25	115	05	-13.1	0.159	-9.000	-9.000	-999.	152.	27.8	0.26	0.63	1.00	1.39	97.	7.9	288.8	7.9			
22	04	25	115	06	-5.8	0.104	-9.000	-9.000	-999.	81.	17.2	0.26	0.63	1.00	0.94	96.	7.9	288.4	7.9			
22	04	25	115	07	-4.6	0.142	-9.000	-9.000	-999.	128.	54.4	0.26	0.63	0.40	1.21	109.	7.9	289.4	7.9			
22	04	25	115	08	0.1	0.049	0.024	0.018	5.	32.	-102.7	0.01	0.63	0.24	0.80	124.	7.9	291.3	7.9			
22	04	25	115	09	0.1	0.085	0.027	0.016	7.	60.	-549.4	0.03	0.63	0.18	1.21	250.	7.9	298.4	7.9			
22	04	25	115	10	0.1	0.200	0.028	0.007	8.	214.	-7007.1	0.04	0.63	0.17	2.59	210.	7.9	299.0	7.9			
22	04	25	115	11	0.1	0.141	0.030	0.011	9.	128.	-2476.4	0.05	0.63	0.16	1.79	205.	7.9	300.0	7.9			
22	04	25	115	12	0.1	0.049	0.031	0.018	10.	32.	-102.5	0.03	0.63	0.16	0.67	254.	7.9	300.6	7.9			
22	04	25	115	13	0.1	0.169	0.032	0.008	11.	167.	-4222.7	0.03	0.63	0.16	2.41	263.	7.9	301.5	7.9			
22	04	25	115	14	0.1	0.101	0.033	0.014	12.	78.	-899.7	0.04	0.63	0.16	1.30	226.	7.9	302.0	7.9			
22	04	25	115	15	0.1	0.201	0.034	0.007	13.	216.	-7123.8	0.01	0.63	0.16	3.53	281.	7.9	302.3	7.9			
22	04	25	115	16	0.1	0.110	0.034	0.014	14.	91.	-1164.1	0.05	0.63	0.17	1.39	199.	7.9	302.9	7.9			
22	04	25	115	17	0.1	0.151	0.035	0.010	15.	140.	-3001.6	0.03	0.63	0.19	2.15	244.	7.9	303.2	7.9			
22	04	25	115	18	0.1	0.134	0.035	0.012	15.	118.	-2131.0	0.04	0.63	0.25	1.74	227.	7.9	302.8	7.9			
22	04	25	115	19	0.1	0.058	0.036	0.017	16.	36.	-166.8	0.03	0.63	0.45	0.80	261.	7.9	301.8	7.9			
22	04	25	115	20	-17.9	0.195	-9.000	-9.000	-999.	206.	41.7	0.01	0.63	1.00	3.62	281.	7.9	298.9	7.9			
22	04	25	115	21	-2.0	0.056	-9.000	-9.000	-999.	56.	7.5	0.01	0.63	1.00	1.03	299.	7.9	297.2	7.9			
22	04	25	115	22	-0.8	0.056	-9.000	-9.000	-999.	32.	18.7	0.17	0.63	1.00	0.28	344.	7.9	293.8	7.9			
22	04	25	115	23	-0.8	0.045	-9.000	-9.000	-999.	23.	10.1	0.01	0.63	1.00	0.49	294.	7.9	292.4	7.9			
22	04	25	115	24	-9.2	0.130	-9.000	-9.000	-999.	112.	20.9	0.15	0.63	1.00	1.39	300.	7.9	291.2	7.9			

First hour of profile data
YR MO DY HR HEIGHT F WDIR WSPD AMB_TMP sigmaA sigmaW sigmaV
22 04 25 01 7.9 1 134. 0.27 289.0 99.0 -99.00 -99.00

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



*** AERMOD - VERSION 22112 ***			*** Ethylene oxide - Institute							***			08/23/22		
*** AERMET - VERSION 22112 ***			*** Ethylene Oxide Distribution AND Polyox Processes							***			16:01:46		
*** MODELOPTS:			RegDFAULT	CONC	ELEV	NODRYDPLT	NOWETDPLT	RURAL	ADJ_U*	PAGE 4					
*** THE SUMMARY OF MAXIMUM PERIOD (24 HRS) RESULTS ***															
			** CONC OF OTHER			IN MICROGRAMS/M**3				**					
GROUP ID		AVERAGE CONC		RECEPTOR (XR, YR, ZELEV, ZHLL, ZFLAG)										OF TYPE	NETWORK GRID-ID

EODISTFL		1ST HIGHEST VALUE IS	0.06032	AT (	434431.66,	4247718.67,	214.40,	303.80,	0.00)	DC					
		2ND HIGHEST VALUE IS	0.05136	AT (	434713.24,	4247620.04,	214.20,	303.80,	0.00)	DC					
		3RD HIGHEST VALUE IS	0.04594	AT (	434703.87,	4247610.67,	212.00,	303.80,	0.00)	DC					
		4TH HIGHEST VALUE IS	0.04566	AT (	434629.22,	4247566.23,	211.00,	303.80,	0.00)	DC					
		5TH HIGHEST VALUE IS	0.04454	AT (	433531.66,	4248818.67,	215.80,	306.60,	0.00)	DC					
		6TH HIGHEST VALUE IS	0.04397	AT (	434379.22,	4247816.23,	211.90,	303.80,	0.00)	DC					
		7TH HIGHEST VALUE IS	0.04301	AT (	433631.66,	4248718.67,	210.80,	306.60,	0.00)	DC					
		8TH HIGHEST VALUE IS	0.03991	AT (	433331.66,	4248918.67,	214.60,	325.70,	0.00)	DC					
		9TH HIGHEST VALUE IS	0.03905	AT (	434963.24,	4247120.04,	215.30,	308.40,	0.00)	DC					
		10TH HIGHEST VALUE IS	0.03708	AT (	434119.85,	4248806.86,	212.30,	316.80,	0.00)	DC					
EODPOINT		1ST HIGHEST VALUE IS	0.06032	AT (	434431.66,	4247718.67,	214.40,	303.80,	0.00)	DC					
		2ND HIGHEST VALUE IS	0.05136	AT (	434713.24,	4247620.04,	214.20,	303.80,	0.00)	DC					
		3RD HIGHEST VALUE IS	0.04594	AT (	434703.87,	4247610.67,	212.00,	303.80,	0.00)	DC					
		4TH HIGHEST VALUE IS	0.04566	AT (	434629.22,	4247566.23,	211.00,	303.80,	0.00)	DC					
		5TH HIGHEST VALUE IS	0.04454	AT (	433531.66,	4248818.67,	215.80,	306.60,	0.00)	DC					
		6TH HIGHEST VALUE IS	0.04397	AT (	434379.22,	4247816.23,	211.90,	303.80,	0.00)	DC					
		7TH HIGHEST VALUE IS	0.04301	AT (	433631.66,	4248718.67,	210.80,	306.60,	0.00)	DC					
		8TH HIGHEST VALUE IS	0.03991	AT (	433331.66,	4248918.67,	214.60,	325.70,	0.00)	DC					
		9TH HIGHEST VALUE IS	0.03905	AT (	434963.24,	4247120.04,	215.30,	308.40,	0.00)	DC					
		10TH HIGHEST VALUE IS	0.03708	AT (	434119.85,	4248806.86,	212.30,	316.80,	0.00)	DC					
EODRAILF		1ST HIGHEST VALUE IS	0.04043	AT (	432831.66,	4248218.67,	182.40,	314.60,	0.00)	DC					
		2ND HIGHEST VALUE IS	0.03977	AT (	432583.00,	4248215.06,	181.73,	314.57,	0.00)	DC					
		3RD HIGHEST VALUE IS	0.03482	AT (	432931.66,	4248218.67,	182.50,	314.60,	0.00)	DC					
		4TH HIGHEST VALUE IS	0.03414	AT (	432831.66,	4248318.67,	182.30,	314.60,	0.00)	DC					
		5TH HIGHEST VALUE IS	0.03277	AT (	431386.12,	4248944.69,	182.00,	328.25,	0.00)	DC					
		6TH HIGHEST VALUE IS	0.03112	AT (	433131.66,	4248018.67,	184.00,	314.60,	0.00)	DC					
		7TH HIGHEST VALUE IS	0.03047	AT (	433231.66,	4248018.67,	184.60,	314.60,	0.00)	DC					
		8TH HIGHEST VALUE IS	0.02996	AT (	432879.22,	4248066.23,	181.80,	314.60,	0.00)	DC					
		9TH HIGHEST VALUE IS	0.02977	AT (	432879.22,	4248316.23,	181.30,	314.60,	0.00)	DC					
		10TH HIGHEST VALUE IS	0.02970	AT (	432703.87,	4248110.67,	181.80,	314.60,	0.00)	DC					
EODPUMPF		1ST HIGHEST VALUE IS	0.07525	AT (	431731.66,	4249218.67,	185.40,	328.30,	0.00)	DC					
		2ND HIGHEST VALUE IS	0.07258	AT (	431742.99,	4249230.00,	186.00,	328.30,	0.00)	DC					
		3RD HIGHEST VALUE IS	0.06921	AT (	431386.12,	4248944.69,	182.00,	328.25,	0.00)	DC					
		4TH HIGHEST VALUE IS	0.06838	AT (	432831.66,	4248218.67,	182.40,	314.60,	0.00)	DC					
		5TH HIGHEST VALUE IS	0.06563	AT (	432831.66,	4248318.67,	182.30,	314.60,	0.00)	DC					
		6TH HIGHEST VALUE IS	0.06376	AT (	432931.66,	4248218.67,	182.50,	314.60,	0.00)	DC					
		7TH HIGHEST VALUE IS	0.06113	AT (	432114.34,	4249063.48,	183.18,	326.46,	0.00)	DC					
		8TH HIGHEST VALUE IS	0.05750	AT (	432292.99,	4249080.00,	186.20,	326.50,	0.00)	DC					
		9TH HIGHEST VALUE IS	0.05726	AT (	432879.22,	4248316.23,	181.30,	314.60,	0.00)	DC					
		10TH HIGHEST VALUE IS	0.05619	AT (	432342.99,	4249080.00,	186.20,	326.50,	0.00)	DC					



*** AERMOD - VERSION 22112 *** *** Ethylene oxide - Institute *** 08/23/22
*** AERMET - VERSION 22112 *** *** Ethylene Oxide Distribution AND Polyox Processes *** 16:01:46
*** MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U* PAGE 5

*** THE SUMMARY OF MAXIMUM PERIOD (24 HRS) RESULTS ***

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

GROUP ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
EODTANKF	1ST HIGHEST VALUE IS 0.03977 AT (431386.12, 4248944.69, 182.00, 328.25, 0.00)	DC		
	2ND HIGHEST VALUE IS 0.03756 AT (432114.34, 4249063.48, 183.18, 326.46, 0.00)	DC		
	3RD HIGHEST VALUE IS 0.03501 AT (431731.66, 4249218.67, 185.40, 328.30, 0.00)	DC		
	4TH HIGHEST VALUE IS 0.03408 AT (432831.66, 4248218.67, 182.40, 314.60, 0.00)	DC		
	5TH HIGHEST VALUE IS 0.03345 AT (432831.66, 4248318.67, 182.30, 314.60, 0.00)	DC		
	6TH HIGHEST VALUE IS 0.03292 AT (431692.99, 4249230.00, 185.80, 328.30, 0.00)	DC		
	7TH HIGHEST VALUE IS 0.03155 AT (432931.66, 4248218.67, 182.50, 314.60, 0.00)	DC		
	8TH HIGHEST VALUE IS 0.03088 AT (431742.99, 4249230.00, 186.00, 328.30, 0.00)	DC		
	9TH HIGHEST VALUE IS 0.03002 AT (432879.22, 4248316.23, 181.30, 314.60, 0.00)	DC		
	10TH HIGHEST VALUE IS 0.02958 AT (432292.99, 4249080.00, 186.20, 326.50, 0.00)	DC		
EODFLARF	1ST HIGHEST VALUE IS 0.01372 AT (432114.34, 4249063.48, 183.18, 326.46, 0.00)	DC		
	2ND HIGHEST VALUE IS 0.01304 AT (431742.99, 4249230.00, 186.00, 328.30, 0.00)	DC		
	3RD HIGHEST VALUE IS 0.01278 AT (431731.66, 4249218.67, 185.40, 328.30, 0.00)	DC		
	4TH HIGHEST VALUE IS 0.01201 AT (431792.99, 4249230.00, 186.20, 328.30, 0.00)	DC		
	5TH HIGHEST VALUE IS 0.01099 AT (431931.66, 4249218.67, 187.70, 326.50, 0.00)	DC		
	6TH HIGHEST VALUE IS 0.01099 AT (432831.66, 4248318.67, 182.30, 314.60, 0.00)	DC		
	7TH HIGHEST VALUE IS 0.01069 AT (431792.99, 4249280.00, 187.80, 328.30, 0.00)	DC		
	8TH HIGHEST VALUE IS 0.01034 AT (432879.22, 4248316.23, 181.30, 314.60, 0.00)	DC		
	9TH HIGHEST VALUE IS 0.01031 AT (431942.99, 4249230.00, 187.60, 326.50, 0.00)	DC		
	10TH HIGHEST VALUE IS 0.01019 AT (432292.99, 4249080.00, 186.20, 326.50, 0.00)	DC		
EODR25F	1ST HIGHEST VALUE IS 0.04237 AT (431931.66, 4249218.67, 187.70, 326.50, 0.00)	DC		
	2ND HIGHEST VALUE IS 0.03833 AT (431892.99, 4249230.00, 187.60, 326.50, 0.00)	DC		
	3RD HIGHEST VALUE IS 0.03265 AT (431992.99, 4249180.00, 186.60, 326.50, 0.00)	DC		
	4TH HIGHEST VALUE IS 0.03147 AT (431942.99, 4249230.00, 187.60, 326.50, 0.00)	DC		
	5TH HIGHEST VALUE IS 0.02403 AT (432114.34, 4249063.48, 183.18, 326.46, 0.00)	DC		
	6TH HIGHEST VALUE IS 0.01857 AT (431831.66, 4249218.67, 186.20, 328.30, 0.00)	DC		
	7TH HIGHEST VALUE IS 0.01825 AT (432042.99, 4249180.00, 186.60, 326.50, 0.00)	DC		
	8TH HIGHEST VALUE IS 0.01687 AT (432142.99, 4249130.00, 186.10, 326.50, 0.00)	DC		
	9TH HIGHEST VALUE IS 0.01642 AT (431842.99, 4249230.00, 186.80, 328.30, 0.00)	DC		
	10TH HIGHEST VALUE IS 0.01291 AT (432192.99, 4249130.00, 186.80, 326.50, 0.00)	DC		
EODFUGI	1ST HIGHEST VALUE IS 0.16189 AT (432114.34, 4249063.48, 183.18, 326.46, 0.00)	DC		
	2ND HIGHEST VALUE IS 0.15553 AT (431731.66, 4249218.67, 185.40, 328.30, 0.00)	DC		
	3RD HIGHEST VALUE IS 0.15221 AT (432831.66, 4248218.67, 182.40, 314.60, 0.00)	DC		
	4TH HIGHEST VALUE IS 0.15087 AT (431386.12, 4248944.69, 182.00, 328.25, 0.00)	DC		
	5TH HIGHEST VALUE IS 0.14880 AT (431742.99, 4249230.00, 186.00, 328.30, 0.00)	DC		
	6TH HIGHEST VALUE IS 0.14538 AT (432831.66, 4248318.67, 182.30, 314.60, 0.00)	DC		
	7TH HIGHEST VALUE IS 0.14081 AT (431931.66, 4249218.67, 187.70, 326.50, 0.00)	DC		
	8TH HIGHEST VALUE IS 0.14010 AT (432931.66, 4248218.67, 182.50, 314.60, 0.00)	DC		
	9TH HIGHEST VALUE IS 0.12842 AT (432879.22, 4248316.23, 181.30, 314.60, 0.00)	DC		
	10TH HIGHEST VALUE IS 0.12728 AT (432292.99, 4249080.00, 186.20, 326.50, 0.00)	DC		



*** AERMOD - VERSION 22112 ***			*** Ethylene oxide - Institute					***		08/23/22
*** AERMET - VERSION 22112 ***			*** Ethylene Oxide Distribution AND Polyox Processes					***		16:01:46
*** MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*										PAGE 6
*** THE SUMMARY OF MAXIMUM PERIOD (24 HRS) RESULTS ***										
** CONC OF OTHER IN MICROGRAMS/M**3 **										
GROUP ID	AVERAGE CONC		RECEPTOR (XR, YR, ZELEV, ZHLL, ZFLAG)					OF TYPE	NETWORK GRID-ID	
EODIST	1ST HIGHEST VALUE IS	0.16629 AT (	432114.34,	4249063.48,	183.18,	326.46,	0.00)	DC		
	2ND HIGHEST VALUE IS	0.16324 AT (	431731.66,	4249218.67,	185.40,	328.30,	0.00)	DC		
	3RD HIGHEST VALUE IS	0.15821 AT (	431742.99,	4249230.00,	186.00,	328.30,	0.00)	DC		
	4TH HIGHEST VALUE IS	0.15725 AT (	432831.66,	4248218.67,	182.40,	314.60,	0.00)	DC		
	5TH HIGHEST VALUE IS	0.15382 AT (	431931.66,	4249218.67,	187.70,	326.50,	0.00)	DC		
	6TH HIGHEST VALUE IS	0.15103 AT (	431386.12,	4248944.69,	182.00,	328.25,	0.00)	DC		
	7TH HIGHEST VALUE IS	0.14983 AT (	432831.66,	4248318.67,	182.30,	314.60,	0.00)	DC		
	8TH HIGHEST VALUE IS	0.14496 AT (	432931.66,	4248218.67,	182.50,	314.60,	0.00)	DC		
	9TH HIGHEST VALUE IS	0.13815 AT (	431942.99,	4249230.00,	187.60,	326.50,	0.00)	DC		
	10TH HIGHEST VALUE IS	0.13431 AT (	432292.99,	4249080.00,	186.20,	326.50,	0.00)	DC		
221A	1ST HIGHEST VALUE IS	0.00000 AT (	0.00,	0.00,	0.00,	0.00,	0.00)			
	2ND HIGHEST VALUE IS	0.00000 AT (	0.00,	0.00,	0.00,	0.00,	0.00)			
	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)			
230M	1ST HIGHEST VALUE IS	0.00000 AT (	0.00,	0.00,	0.00,	0.00,	0.00)			
	2ND HIGHEST VALUE IS	0.00000 AT (	0.00,	0.00,	0.00,	0.00,	0.00)			
	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)			
230L	1ST HIGHEST VALUE IS	0.00000 AT (	0.00,	0.00,	0.00,	0.00,	0.00)			
	2ND HIGHEST VALUE IS	0.00000 AT (	0.00,	0.00,	0.00,	0.00,	0.00)			
	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)			



*** AERMOD - VERSION 22112 *** *** Ethylene oxide - Institute *** 08/23/22
*** AERMET - VERSION 22112 *** *** Ethylene Oxide Distribution AND Polyox Processes *** 16:01:46
*** MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U* PAGE 7

*** THE SUMMARY OF MAXIMUM PERIOD (24 HRS) RESULTS ***

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

GROUP ID	AVERAGE CONC	RECEPTOR	(XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
230K	1ST HIGHEST VALUE IS 0.00000 AT (	0.00,	0.00,	0.00,	0.00)
	2ND HIGHEST VALUE IS 0.00000 AT (	0.00,	0.00,	0.00,	0.00)
	3RD HIGHEST VALUE IS 0.00000 AT (	0.00,	0.00,	0.00,	0.00)
	4TH HIGHEST VALUE IS 0.00000 AT (	0.00,	0.00,	0.00,	0.00)
	5TH HIGHEST VALUE IS 0.00000 AT (	0.00,	0.00,	0.00,	0.00)
	6TH HIGHEST VALUE IS 0.00000 AT (	0.00,	0.00,	0.00,	0.00)
	7TH HIGHEST VALUE IS 0.00000 AT (	0.00,	0.00,	0.00,	0.00)
	8TH HIGHEST VALUE IS 0.00000 AT (	0.00,	0.00,	0.00,	0.00)
	9TH HIGHEST VALUE IS 0.00000 AT (	0.00,	0.00,	0.00,	0.00)
	10TH HIGHEST VALUE IS 0.00000 AT (	0.00,	0.00,	0.00,	0.00)
230O	1ST HIGHEST VALUE IS 0.00000 AT (	0.00,	0.00,	0.00,	0.00)
	2ND HIGHEST VALUE IS 0.00000 AT (	0.00,	0.00,	0.00,	0.00)
	3RD HIGHEST VALUE IS 0.00000 AT (	0.00,	0.00,	0.00,	0.00)
	4TH HIGHEST VALUE IS 0.00000 AT (	0.00,	0.00,	0.00,	0.00)
	5TH HIGHEST VALUE IS 0.00000 AT (	0.00,	0.00,	0.00,	0.00)
	6TH HIGHEST VALUE IS 0.00000 AT (	0.00,	0.00,	0.00,	0.00)
	7TH HIGHEST VALUE IS 0.00000 AT (	0.00,	0.00,	0.00,	0.00)
	8TH HIGHEST VALUE IS 0.00000 AT (	0.00,	0.00,	0.00,	0.00)
	9TH HIGHEST VALUE IS 0.00000 AT (	0.00,	0.00,	0.00,	0.00)
	10TH HIGHEST VALUE IS 0.00000 AT (	0.00,	0.00,	0.00,	0.00)
230HH	1ST HIGHEST VALUE IS 0.00000 AT (	0.00,	0.00,	0.00,	0.00)
	2ND HIGHEST VALUE IS 0.00000 AT (	0.00,	0.00,	0.00,	0.00)
	3RD HIGHEST VALUE IS 0.00000 AT (	0.00,	0.00,	0.00,	0.00)
	4TH HIGHEST VALUE IS 0.00000 AT (	0.00,	0.00,	0.00,	0.00)
	5TH HIGHEST VALUE IS 0.00000 AT (	0.00,	0.00,	0.00,	0.00)
	6TH HIGHEST VALUE IS 0.00000 AT (	0.00,	0.00,	0.00,	0.00)
	7TH HIGHEST VALUE IS 0.00000 AT (	0.00,	0.00,	0.00,	0.00)
	8TH HIGHEST VALUE IS 0.00000 AT (	0.00,	0.00,	0.00,	0.00)
	9TH HIGHEST VALUE IS 0.00000 AT (	0.00,	0.00,	0.00,	0.00)
	10TH HIGHEST VALUE IS 0.00000 AT (	0.00,	0.00,	0.00,	0.00)
PPOINT	1ST HIGHEST VALUE IS 0.00000 AT (	0.00,	0.00,	0.00,	0.00)
	2ND HIGHEST VALUE IS 0.00000 AT (	0.00,	0.00,	0.00,	0.00)
	3RD HIGHEST VALUE IS 0.00000 AT (	0.00,	0.00,	0.00,	0.00)
	4TH HIGHEST VALUE IS 0.00000 AT (	0.00,	0.00,	0.00,	0.00)
	5TH HIGHEST VALUE IS 0.00000 AT (	0.00,	0.00,	0.00,	0.00)
	6TH HIGHEST VALUE IS 0.00000 AT (	0.00,	0.00,	0.00,	0.00)
	7TH HIGHEST VALUE IS 0.00000 AT (	0.00,	0.00,	0.00,	0.00)
	8TH HIGHEST VALUE IS 0.00000 AT (	0.00,	0.00,	0.00,	0.00)
	9TH HIGHEST VALUE IS 0.00000 AT (	0.00,	0.00,	0.00,	0.00)
	10TH HIGHEST VALUE IS 0.00000 AT (	0.00,	0.00,	0.00,	0.00)



*** AERMOD - VERSION 22112 ***			*** Ethylene oxide - Institute						***			08/23/22	
*** AERMET - VERSION 22112 ***			*** Ethylene Oxide Distribution AND Polyox Processes						***			16:01:46	
*** MODELOPTS:			RegDFault	CONC	ELEV	NODRYDPLT	NOWETDPLT	RURAL	ADJ_U*	PAGE 8			
*** THE SUMMARY OF MAXIMUM PERIOD (24 HRS) RESULTS ***													
** CONC OF OTHER IN MICROGRAMS/M**3 **													
GROUP ID		AVERAGE CONC			RECEPTOR (XR, YR, ZELEV, ZHLL, ZFLAG)					OF TYPE		NETWORK GRID-ID	
POLYVOL1		1ST HIGHEST VALUE IS	0.01599	AT (	432583.00,	4248215.06,	181.73,	314.57,	0.00)	DC			
		2ND HIGHEST VALUE IS	0.01238	AT (	432703.87,	4248110.67,	181.80,	314.60,	0.00)	DC			
		3RD HIGHEST VALUE IS	0.00884	AT (	432831.66,	4248018.67,	181.50,	314.60,	0.00)	DC			
		4TH HIGHEST VALUE IS	0.00864	AT (	432731.66,	4248018.67,	181.90,	314.60,	0.00)	DC			
		5TH HIGHEST VALUE IS	0.00791	AT (	432879.22,	4248066.23,	181.80,	314.60,	0.00)	DC			
		6TH HIGHEST VALUE IS	0.00752	AT (	432931.66,	4248018.67,	181.80,	314.60,	0.00)	DC			
		7TH HIGHEST VALUE IS	0.00624	AT (	433031.66,	4247918.67,	182.00,	314.60,	0.00)	DC			
		8TH HIGHEST VALUE IS	0.00623	AT (	432931.66,	4247918.67,	181.90,	314.60,	0.00)	DC			
		9TH HIGHEST VALUE IS	0.00580	AT (	432831.66,	4248318.67,	182.30,	314.60,	0.00)	DC			
		10TH HIGHEST VALUE IS	0.00558	AT (	432831.66,	4247918.67,	181.70,	314.60,	0.00)	DC			
PBL8389		1ST HIGHEST VALUE IS	0.00393	AT (	432831.66,	4248518.67,	181.80,	325.70,	0.00)	DC			
		2ND HIGHEST VALUE IS	0.00347	AT (	432931.66,	4248518.67,	183.30,	325.70,	0.00)	DC			
		3RD HIGHEST VALUE IS	0.00340	AT (	432879.22,	4248566.23,	182.50,	325.70,	0.00)	DC			
		4TH HIGHEST VALUE IS	0.00302	AT (	433031.66,	4248518.67,	185.50,	325.70,	0.00)	DC			
		5TH HIGHEST VALUE IS	0.00289	AT (	432592.99,	4247930.00,	181.10,	314.60,	0.00)	DC			
		6TH HIGHEST VALUE IS	0.00279	AT (	433129.22,	4248566.23,	186.90,	325.70,	0.00)	DC			
		7TH HIGHEST VALUE IS	0.00275	AT (	432931.66,	4248418.67,	182.10,	316.30,	0.00)	DC			
		8TH HIGHEST VALUE IS	0.00274	AT (	432731.66,	4248018.67,	181.90,	314.60,	0.00)	DC			
		9TH HIGHEST VALUE IS	0.00273	AT (	432931.66,	4248618.67,	184.60,	325.70,	0.00)	DC			
		10TH HIGHEST VALUE IS	0.00273	AT (	433031.66,	4248618.67,	185.40,	325.70,	0.00)	DC			
PFUGIT		1ST HIGHEST VALUE IS	0.01769	AT (	432583.00,	4248215.06,	181.73,	314.57,	0.00)	DC			
		2ND HIGHEST VALUE IS	0.01474	AT (	432703.87,	4248110.67,	181.80,	314.60,	0.00)	DC			
		3RD HIGHEST VALUE IS	0.01138	AT (	432731.66,	4248018.67,	181.90,	314.60,	0.00)	DC			
		4TH HIGHEST VALUE IS	0.01132	AT (	432831.66,	4248018.67,	181.50,	314.60,	0.00)	DC			
		5TH HIGHEST VALUE IS	0.00990	AT (	432879.22,	4248066.23,	181.80,	314.60,	0.00)	DC			
		6TH HIGHEST VALUE IS	0.00964	AT (	432931.66,	4248018.67,	181.80,	314.60,	0.00)	DC			
		7TH HIGHEST VALUE IS	0.00869	AT (	432931.66,	4247918.67,	181.90,	314.60,	0.00)	DC			
		8TH HIGHEST VALUE IS	0.00847	AT (	433031.66,	4247918.67,	182.00,	314.60,	0.00)	DC			
		9TH HIGHEST VALUE IS	0.00823	AT (	432592.99,	4247930.00,	181.10,	314.60,	0.00)	DC			
		10TH HIGHEST VALUE IS	0.00822	AT (	432831.66,	4247918.67,	181.70,	314.60,	0.00)	DC			
POLYOX		1ST HIGHEST VALUE IS	0.01769	AT (	432583.00,	4248215.06,	181.73,	314.57,	0.00)	DC			
		2ND HIGHEST VALUE IS	0.01474	AT (	432703.87,	4248110.67,	181.80,	314.60,	0.00)	DC			
		3RD HIGHEST VALUE IS	0.01138	AT (	432731.66,	4248018.67,	181.90,	314.60,	0.00)	DC			
		4TH HIGHEST VALUE IS	0.01132	AT (	432831.66,	4248018.67,	181.50,	314.60,	0.00)	DC			
		5TH HIGHEST VALUE IS	0.00990	AT (	432879.22,	4248066.23,	181.80,	314.60,	0.00)	DC			
		6TH HIGHEST VALUE IS	0.00964	AT (	432931.66,	4248018.67,	181.80,	314.60,	0.00)	DC			
		7TH HIGHEST VALUE IS	0.00869	AT (	432931.66,	4247918.67,	181.90,	314.60,	0.00)	DC			
		8TH HIGHEST VALUE IS	0.00847	AT (	433031.66,	4247918.67,	182.00,	314.60,	0.00)	DC			
		9TH HIGHEST VALUE IS	0.00823	AT (	432592.99,	4247930.00,	181.10,	314.60,	0.00)	DC			
		10TH HIGHEST VALUE IS	0.00822	AT (	432831.66,	4247918.67,	181.70,	314.60,	0.00)	DC			



*** AERMOD - VERSION 22112 *** *** Ethylene oxide - Institute *** 08/23/22
*** AERMET - VERSION 22112 *** *** Ethylene Oxide Distribution AND Polyox Processes *** 16:01:46
*** MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U* PAGE 9

*** THE SUMMARY OF MAXIMUM PERIOD (24 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	0.16739	AT (	432114.34, 4249063.48, 183.18, 326.46, 0.00)	DC	
	2ND HIGHEST VALUE IS	0.16394	AT (	431731.66, 4249218.67, 185.40, 328.30, 0.00)	DC	
	3RD HIGHEST VALUE IS	0.16338	AT (	432831.66, 4248218.67, 182.40, 314.60, 0.00)	DC	
	4TH HIGHEST VALUE IS	0.15889	AT (	431742.99, 4249230.00, 186.00, 328.30, 0.00)	DC	
	5TH HIGHEST VALUE IS	0.15800	AT (	432831.66, 4248318.67, 182.30, 314.60, 0.00)	DC	
	6TH HIGHEST VALUE IS	0.15439	AT (	431931.66, 4249218.67, 187.70, 326.50, 0.00)	DC	
	7TH HIGHEST VALUE IS	0.15172	AT (	431386.12, 4248944.69, 182.00, 328.25, 0.00)	DC	
	8TH HIGHEST VALUE IS	0.15023	AT (	432931.66, 4248218.67, 182.50, 314.60, 0.00)	DC	
	9TH HIGHEST VALUE IS	0.14437	AT (	432583.00, 4248215.06, 181.73, 314.57, 0.00)	DC	
	10TH HIGHEST VALUE IS	0.14003	AT (	432879.22, 4248316.23, 181.30, 314.60, 0.00)	DC	

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



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*** AERMOD - VERSION 22112 *** *** Ethylene oxide - Institute ***
*** AERMET - VERSION 22112 *** *** Ethylene Oxide Distribution AND Polyox Processes ***
*** MODELOPTs: RegDFAULT 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 20 Warning Message(s)
A Total of 2 Informational Message(s)
A Total of 24 Hours Were Processed
A Total of 0 Calm Hours Identified
A Total of 0 Missing Hours Identified ( 0.00 Percent)

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

***** WARNING MESSAGES *****
SO W320 16 PPARM: Input Parameter May Be Out-of-Range for Parameter QS
SO W320 17 PPARM: Input Parameter May Be Out-of-Range for Parameter QS
SO W320 18 PPARM: Input Parameter May Be Out-of-Range for Parameter QS
SO W320 19 PPARM: Input Parameter May Be Out-of-Range for Parameter QS
SO W320 19 PPARM: Input Parameter May Be Out-of-Range for Parameter VS
SO W320 20 PPARM: Input Parameter May Be Out-of-Range for Parameter QS
SO W320 21 PPARM: Input Parameter May Be Out-of-Range for Parameter QS
ME W187 29 MEOPTEN: ADJ_U* Option for Stable Low Winds used in AERMET
OU W565 32 PERPLT: Possible Conflict with Dynamically Allocated FUNIT PLOTFILE
OU W565 44 PERPLT: Possible Conflict with Dynamically Allocated FUNIT PLOTFILE
OU W565 45 PERPLT: Possible Conflict with Dynamically Allocated FUNIT PLOTFILE
OU W565 46 PERPLT: Possible Conflict with Dynamically Allocated FUNIT PLOTFILE
OU W565 47 PERPLT: Possible Conflict with Dynamically Allocated FUNIT PLOTFILE
OU W565 48 PERPLT: Possible Conflict with Dynamically Allocated FUNIT PLOTFILE
OU W565 49 PERPLT: Possible Conflict with Dynamically Allocated FUNIT PLOTFILE
OU W565 50 PERPLT: Possible Conflict with Dynamically Allocated FUNIT PLOTFILE
OU W565 51 PERPLT: Possible Conflict with Dynamically Allocated FUNIT PLOTFILE
OU W565 52 PERPLT: Possible Conflict with Dynamically Allocated FUNIT PLOTFILE
OU W565 53 PERPLT: Possible Conflict with Dynamically Allocated FUNIT PLOTFILE
OU W565 54 PERPLT: Possible Conflict with Dynamically Allocated FUNIT PLOTFILE
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April Monitoring Event AERMOD Summary File: South Charleston

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*** AERMOD - VERSION 22112 *** *** Ethylene oxide - South Charleston, WV Apr 26-27, 2022 Monitoring Eve *** 08/19/22
*** AERMET - VERSION 22112 *** *** Oxide Adducts; Triton; Covestro; Chemical Mixing *** 15:22:38
*** MODELPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U* *** 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.
* Option for Capped & Horiz Stacks Selected With:
  0 Capped Stack(s); and 3 Horizontal Stack(s)
* ADJ_U* - Use ADJ_U* option for SBL in AERMET
* CCVR_Sub - Meteorological data includes CCVR substitutions
* TEMP_Sub - Meteorological data includes TEMP substitutions
* Model Assumes NO FLAGPOLE Receptor Heights.
* The User Specified a Pollutant Type of: OTHER

**Model Calculates PERIOD Averages Only

**This Run Includes: 119 Source(s); 33 Source Group(s); and 15537 Receptor(s)

with: 102 POINT(s), including
      0 POINTCAP(s) and 3 POINTHOR(s)
and: 15 VOLUME source(s)
and: 1 AREA type source(s)
and: 1 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: 22112

**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)

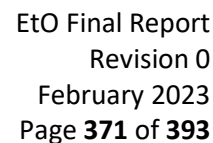
**NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours
                                                    m for Missing Hours
                                                    b for Both Calm and Missing Hours

**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 180.24 ; 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 = 20.5 MB of RAM.

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

**Detailed Error/Message File: error.fil
**File for Summary of Results: Summary.sum
```

[illegible]

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,



*** AERMOD - VERSION 22112 *** *** Ethylene oxide - South Charleston, WV Apr 26-27, 2022 Monitoring Eve *** 08/19/22
*** AERMET - VERSION 22112 *** *** Oxide Adducts; Triton; Covestro; Chemical Mixing *** 15:22:38
PAGE 3

*** MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*
*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file: SC_APR_22.SFC Met Version: 22112
Profile file: SC_APR_22.PFL
Surface format: FREE
Profile format: FREE
Surface station no.: 13866 Upper air station no.: 53829
Name: INSTITUTE/SOUTH CHARLESTON SITE, WV Name: UNKNOWN
Year: 2022 Year: 2022

First 24 hours of scalar data																							
YR	MO	DY	JDY	HR	HO	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O	LEN	Z0	BOWEN	ALBEDO	REF	WS	WD	HT	REF	TA	HT	
22	04	26	116	01	-20.6	0.216	-9.000	-9.000	-999.	241.	51.3	0.07	0.63	1.00	2.86	339.	10.0	288.8	2.0				
22	04	26	116	02	-8.4	0.168	-9.000	-9.000	-999.	165.	49.1	0.05	0.63	0.43	2.36	3.	10.0	288.1	2.0				
22	04	26	116	03	12.4	-9.000	-9.000	-9.000	-999.	48.	-999999.0	0.05	0.63	0.22	0.00	0.	10.0	287.5	2.0				
22	04	26	116	04	27.3	0.199	0.407	0.006	86.	213.	25.3	0.02	0.63	0.17	2.86	322.	10.0	286.4	2.0				
22	04	26	116	05	39.1	0.331	0.600	0.005	194.	457.	-81.3	0.07	0.63	0.16	3.86	330.	10.0	285.9	2.0				
22	04	26	116	06	46.8	0.245	0.763	0.005	333.	295.	-27.6	0.05	0.63	0.16	2.86	999.	10.0	284.2	2.0				
22	04	26	116	07	50.6	0.207	0.850	0.005	425.	226.	-15.3	0.02	0.63	0.16	2.86	315.	10.0	284.2	2.0				
22	04	26	116	08	50.5	-9.000	-9.000	-9.000	-999.	-999999.0	0.05	0.63	0.16	0.00	0.	10.0	284.2	2.0					
22	04	26	116	09	46.3	-9.000	-9.000	-9.000	-999.	-999999.0	0.05	0.63	0.16	0.00	0.	10.0	284.2	2.0					
22	04	26	116	10	37.8	0.261	0.855	0.005	581.	320.	-41.3	0.02	0.63	0.16	3.86	306.	10.0	283.8	2.0				
22	04	26	116	11	25.5	0.198	0.760	0.005	604.	213.	-26.9	0.02	0.63	0.18	2.86	305.	10.0	283.1	2.0				
22	04	26	116	12	10.1	0.131	0.562	0.005	614.	115.	-19.5	0.02	0.63	0.23	1.76	286.	10.0	283.1	2.0				
22	04	26	116	13	-13.0	0.190	-9.000	-9.000	-999.	198.	46.3	0.03	0.63	0.46	2.86	262.	10.0	283.8	2.0				
22	04	26	116	14	-25.6	0.263	-9.000	-9.000	-999.	324.	76.3	0.08	0.63	1.00	3.36	234.	10.0	284.2	2.0				
22	04	26	116	15	-19.8	0.205	-9.000	-9.000	-999.	223.	46.1	0.02	0.63	1.00	3.36	290.	10.0	284.8	2.0				
22	04	26	116	16	-14.5	0.164	-9.000	-9.000	-999.	160.	29.7	0.05	0.63	1.00	2.36	999.	10.0	286.4	2.0				
22	04	26	116	17	-28.0	0.292	-9.000	-9.000	-999.	379.	94.1	0.03	0.63	1.00	4.36	255.	10.0	287.5	2.0				
22	04	26	116	18	-22.7	0.237	-9.000	-9.000	-999.	278.	61.6	0.02	0.63	1.00	3.86	295.	10.0	287.5	2.0				
22	04	26	116	19	-22.8	0.237	-9.000	-9.000	-999.	276.	61.6	0.02	0.63	1.00	3.86	296.	10.0	286.4	2.0				
22	04	26	116	20	-36.2	0.372	-9.000	-9.000	-999.	545.	152.3	0.02	0.63	1.00	5.96	296.	10.0	284.2	2.0				
22	04	26	116	21	5.8	0.098	-9.000	-9.000	-999.	203.	14.1	0.02	0.63	1.00	1.76	318.	10.0	283.1	2.0				
22	04	26	116	22	-999.0	-9.000	-9.000	-9.000	-999.	-999999.0	0.05	0.63	1.00	0.00	0.	10.0	282.0	2.0					
22	04	26	116	23	-999.0	-9.000	-9.000	-9.000	-999.	-999999.0	0.05	0.63	1.00	0.00	0.	10.0	279.8	2.0					
22	04	26	116	24	-999.0	-9.000	-9.000	-9.000	-999.	-999999.0	0.05	0.63	1.00	0.00	0.	10.0	278.8	2.0					

First hour of profile data
YR MO DY HR HEIGHT F WDIR WSPD AMB_TMP sigmaA sigmaW sigmaV
22 04 26 01 10.0 1 339. 2.86 288.8 99.0 -99.00 -99.00

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



*** AERMOD - VERSION 22112 *** *** Ethylene oxide - South Charleston, WV Apr 26-27, 2022 Monitoring Eve *** 08/19/22
*** AERMET - VERSION 22112 *** *** Oxide Adducts; Triton; Covestro; Chemical Mixing *** 15:22:38
*** MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U* PAGE 4

*** THE SUMMARY OF MAXIMUM PERIOD (24 HRS) RESULTS ***

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

GROUP ID		AVERAGE CONC		RECEPTOR	(XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
CHMIX	1ST HIGHEST VALUE IS	0.01000 AT (	440377.01,	4246733.81,	183.70,	284.10,	0.00) DC
	2ND HIGHEST VALUE IS	0.00651 AT (	440427.01,	4246683.81,	183.10,	284.10,	0.00) DC
	3RD HIGHEST VALUE IS	0.00475 AT (	440377.01,	4246683.81,	183.40,	284.10,	0.00) DC
	4TH HIGHEST VALUE IS	0.00471 AT (	440427.01,	4246633.81,	182.50,	322.90,	0.00) DC
	5TH HIGHEST VALUE IS	0.00465 AT (	440477.01,	4246633.81,	182.50,	322.90,	0.00) DC
	6TH HIGHEST VALUE IS	0.00457 AT (	440415.68,	4246722.48,	183.30,	284.10,	0.00) DC
	7TH HIGHEST VALUE IS	0.00457 AT (	440463.24,	4246620.04,	185.50,	302.70,	0.00) DC
	8TH HIGHEST VALUE IS	0.00348 AT (	440477.01,	4246583.81,	185.60,	322.90,	0.00) DC
	9TH HIGHEST VALUE IS	0.00309 AT (	440527.01,	4246583.81,	185.50,	322.90,	0.00) DC
	10TH HIGHEST VALUE IS	0.00262 AT (	440327.01,	4246733.81,	184.40,	284.10,	0.00) DC
1RX	1ST HIGHEST VALUE IS	0.00000 AT (	0.00,	0.00,	0.00,	0.00,	0.00)
	2ND HIGHEST VALUE IS	0.00000 AT (	0.00,	0.00,	0.00,	0.00,	0.00)
	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)
2RX	1ST HIGHEST VALUE IS	0.00000 AT (	0.00,	0.00,	0.00,	0.00,	0.00)
	2ND HIGHEST VALUE IS	0.00000 AT (	0.00,	0.00,	0.00,	0.00,	0.00)
	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)
3RX	1ST HIGHEST VALUE IS	0.00000 AT (	0.00,	0.00,	0.00,	0.00,	0.00)
	2ND HIGHEST VALUE IS	0.00000 AT (	0.00,	0.00,	0.00,	0.00,	0.00)
	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)



*** AERMOD - VERSION 22112 *** *** Ethylene oxide - South Charleston, WV Apr 26-27, 2022 Monitoring Eve *** 08/19/22
*** AERMET - VERSION 22112 *** *** Oxide Adducts; Triton; Covestro; Chemical Mixing *** 15:22:38
*** MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U* PAGE 5

*** THE SUMMARY OF MAXIMUM PERIOD (24 HRS) RESULTS ***

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

GROUP ID		AVERAGE CONC		RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
789RX	1ST HIGHEST VALUE IS	0.01051 AT (	440515.68,	4246822.48,	173.10,	302.70, 0.00) DC
	2ND HIGHEST VALUE IS	0.00879 AT (	440577.01,	4246783.81,	173.10,	311.20, 0.00) DC
	3RD HIGHEST VALUE IS	0.00702 AT (	440477.01,	4247233.81,	173.10,	182.10, 0.00) DC
	4TH HIGHEST VALUE IS	0.00533 AT (	440527.01,	4247283.81,	173.10,	272.50, 0.00) DC
	5TH HIGHEST VALUE IS	0.00504 AT (	440815.68,	4246522.48,	184.50,	311.20, 0.00) DC
	6TH HIGHEST VALUE IS	0.00491 AT (	440515.68,	4247222.48,	173.10,	182.20, 0.00) DC
	7TH HIGHEST VALUE IS	0.00474 AT (	440527.01,	4247233.81,	173.10,	182.20, 0.00) DC
	8TH HIGHEST VALUE IS	0.00458 AT (	440477.01,	4247283.81,	173.10,	272.80, 0.00) DC
	9TH HIGHEST VALUE IS	0.00436 AT (	441015.68,	4246722.48,	173.10,	311.20, 0.00) DC
	10TH HIGHEST VALUE IS	0.00420 AT (	440577.01,	4247183.81,	173.10,	182.20, 0.00) DC
CPOINT	1ST HIGHEST VALUE IS	0.01051 AT (	440515.68,	4246822.48,	173.10,	302.70, 0.00) DC
	2ND HIGHEST VALUE IS	0.00879 AT (	440577.01,	4246783.81,	173.10,	311.20, 0.00) DC
	3RD HIGHEST VALUE IS	0.00702 AT (	440477.01,	4247233.81,	173.10,	182.10, 0.00) DC
	4TH HIGHEST VALUE IS	0.00533 AT (	440527.01,	4247283.81,	173.10,	272.50, 0.00) DC
	5TH HIGHEST VALUE IS	0.00504 AT (	440815.68,	4246522.48,	184.50,	311.20, 0.00) DC
	6TH HIGHEST VALUE IS	0.00491 AT (	440515.68,	4247222.48,	173.10,	182.20, 0.00) DC
	7TH HIGHEST VALUE IS	0.00474 AT (	440527.01,	4247233.81,	173.10,	182.20, 0.00) DC
	8TH HIGHEST VALUE IS	0.00458 AT (	440477.01,	4247283.81,	173.10,	272.80, 0.00) DC
	9TH HIGHEST VALUE IS	0.00436 AT (	441015.68,	4246722.48,	173.10,	311.20, 0.00) DC
	10TH HIGHEST VALUE IS	0.00420 AT (	440577.01,	4247183.81,	173.10,	182.20, 0.00) DC
CE003F	1ST HIGHEST VALUE IS	0.01286 AT (	440115.68,	4247022.48,	173.10,	184.10, 0.00) DC
	2ND HIGHEST VALUE IS	0.01167 AT (	440015.68,	4247322.48,	173.10,	327.10, 0.00) DC
	3RD HIGHEST VALUE IS	0.01155 AT (	440177.01,	4246983.81,	173.10,	183.90, 0.00) DC
	4TH HIGHEST VALUE IS	0.01082 AT (	440077.01,	4247333.81,	173.10,	327.10, 0.00) DC
	5TH HIGHEST VALUE IS	0.01082 AT (	440077.01,	4247283.81,	173.10,	272.80, 0.00) DC
	6TH HIGHEST VALUE IS	0.01034 AT (	440027.01,	4247333.81,	173.10,	327.10, 0.00) DC
	7TH HIGHEST VALUE IS	0.00999 AT (	440127.01,	4246983.81,	173.10,	184.10, 0.00) DC
	8TH HIGHEST VALUE IS	0.00987 AT (	440077.01,	4247033.81,	173.10,	184.70, 0.00) DC
	9TH HIGHEST VALUE IS	0.00981 AT (	440227.01,	4246933.81,	173.10,	183.90, 0.00) DC
	10TH HIGHEST VALUE IS	0.00883 AT (	440115.68,	4247322.48,	173.10,	305.60, 0.00) DC
CP1VF	1ST HIGHEST VALUE IS	0.02858 AT (	440515.68,	4246822.48,	173.10,	302.70, 0.00) DC
	2ND HIGHEST VALUE IS	0.02352 AT (	440577.01,	4246783.81,	173.10,	311.20, 0.00) DC
	3RD HIGHEST VALUE IS	0.01713 AT (	440627.01,	4246783.81,	173.10,	311.20, 0.00) DC
	4TH HIGHEST VALUE IS	0.01625 AT (	440619.85,	4246806.86,	173.10,	310.70, 0.00) DC
	5TH HIGHEST VALUE IS	0.01557 AT (	440615.68,	4246822.48,	173.10,	302.70, 0.00) DC
	6TH HIGHEST VALUE IS	0.01444 AT (	440477.01,	4247233.81,	173.10,	182.10, 0.00) DC
	7TH HIGHEST VALUE IS	0.01380 AT (	440677.01,	4246583.81,	183.60,	311.20, 0.00) DC
	8TH HIGHEST VALUE IS	0.01373 AT (	440815.68,	4246522.48,	184.50,	311.20, 0.00) DC
	9TH HIGHEST VALUE IS	0.01239 AT (	440515.68,	4247222.48,	173.10,	182.20, 0.00) DC
	10TH HIGHEST VALUE IS	0.01186 AT (	440615.68,	4246622.48,	183.10,	311.20, 0.00) DC



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*** AERMET - VERSION 22112 *** *** Oxide Adducts; Triton; Covestro; Chemical Mixing *** 15:22:38
*** MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U* PAGE 6

*** THE SUMMARY OF MAXIMUM PERIOD (24 HRS) RESULTS ***

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

GROUP ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
CFUGIT	1ST HIGHEST VALUE IS	0.03119 AT (440515.68, 4246822.48, 173.10, 302.70, 0.00)	DC	
	2ND HIGHEST VALUE IS	0.02572 AT (440577.01, 4246783.81, 173.10, 311.20, 0.00)	DC	
	3RD HIGHEST VALUE IS	0.01944 AT (440627.01, 4246783.81, 173.10, 311.20, 0.00)	DC	
	4TH HIGHEST VALUE IS	0.01894 AT (440619.85, 4246806.86, 173.10, 310.70, 0.00)	DC	
	5TH HIGHEST VALUE IS	0.01860 AT (440615.68, 4246822.48, 173.10, 302.70, 0.00)	DC	
	6TH HIGHEST VALUE IS	0.01663 AT (440677.01, 4246583.81, 183.60, 311.20, 0.00)	DC	
	7TH HIGHEST VALUE IS	0.01545 AT (440615.68, 4246622.48, 183.10, 311.20, 0.00)	DC	
	8TH HIGHEST VALUE IS	0.01514 AT (440815.68, 4246522.48, 184.50, 311.20, 0.00)	DC	
	9TH HIGHEST VALUE IS	0.01483 AT (440477.01, 4247233.81, 173.10, 182.10, 0.00)	DC	
	10TH HIGHEST VALUE IS	0.01404 AT (440115.68, 4247022.48, 173.10, 184.10, 0.00)	DC	
COVESTRO	1ST HIGHEST VALUE IS	0.04170 AT (440515.68, 4246822.48, 173.10, 302.70, 0.00)	DC	
	2ND HIGHEST VALUE IS	0.03451 AT (440577.01, 4246783.81, 173.10, 311.20, 0.00)	DC	
	3RD HIGHEST VALUE IS	0.02349 AT (440627.01, 4246783.81, 173.10, 311.20, 0.00)	DC	
	4TH HIGHEST VALUE IS	0.02263 AT (440619.85, 4246806.86, 173.10, 310.70, 0.00)	DC	
	5TH HIGHEST VALUE IS	0.02209 AT (440615.68, 4246822.48, 173.10, 302.70, 0.00)	DC	
	6TH HIGHEST VALUE IS	0.02185 AT (440477.01, 4247233.81, 173.10, 182.10, 0.00)	DC	
	7TH HIGHEST VALUE IS	0.02027 AT (440677.01, 4246583.81, 183.60, 311.20, 0.00)	DC	
	8TH HIGHEST VALUE IS	0.02018 AT (440815.68, 4246522.48, 184.50, 311.20, 0.00)	DC	
	9TH HIGHEST VALUE IS	0.01805 AT (440615.68, 4246622.48, 183.10, 311.20, 0.00)	DC	
	10TH HIGHEST VALUE IS	0.01760 AT (440515.68, 4247222.48, 173.10, 182.20, 0.00)	DC	
TE10813	1ST HIGHEST VALUE IS	0.01007 AT (440227.01, 4247283.81, 173.10, 272.80, 0.00)	DC	
	2ND HIGHEST VALUE IS	0.00934 AT (440277.01, 4247283.81, 173.10, 272.80, 0.00)	DC	
	3RD HIGHEST VALUE IS	0.00881 AT (440815.68, 4246422.48, 206.50, 311.20, 0.00)	DC	
	4TH HIGHEST VALUE IS	0.00810 AT (440315.68, 4247322.48, 173.10, 272.80, 0.00)	DC	
	5TH HIGHEST VALUE IS	0.00798 AT (440327.01, 4246933.81, 173.10, 183.90, 0.00)	DC	
	6TH HIGHEST VALUE IS	0.00785 AT (440327.01, 4247333.81, 173.10, 272.80, 0.00)	DC	
	7TH HIGHEST VALUE IS	0.00774 AT (440277.01, 4247333.81, 173.10, 272.80, 0.00)	DC	
	8TH HIGHEST VALUE IS	0.00723 AT (440415.68, 4247422.48, 181.60, 272.80, 0.00)	DC	
	9TH HIGHEST VALUE IS	0.00700 AT (440377.01, 4247383.81, 173.10, 272.80, 0.00)	DC	
	10TH HIGHEST VALUE IS	0.00699 AT (440327.01, 4247283.81, 173.10, 272.80, 0.00)	DC	
T_L_ALL	1ST HIGHEST VALUE IS	0.00389 AT (440227.01, 4246983.81, 173.10, 183.90, 0.00)	DC	
	2ND HIGHEST VALUE IS	0.00305 AT (440277.01, 4246933.81, 173.10, 183.90, 0.00)	DC	
	3RD HIGHEST VALUE IS	0.00288 AT (440315.68, 4246922.48, 173.10, 283.60, 0.00)	DC	
	4TH HIGHEST VALUE IS	0.00281 AT (440227.01, 4247283.81, 173.10, 272.80, 0.00)	DC	
	5TH HIGHEST VALUE IS	0.00273 AT (440327.01, 4246933.81, 173.10, 183.90, 0.00)	DC	
	6TH HIGHEST VALUE IS	0.00201 AT (440277.01, 4247283.81, 173.10, 272.80, 0.00)	DC	
	7TH HIGHEST VALUE IS	0.00164 AT (440177.01, 4247283.81, 173.10, 272.80, 0.00)	DC	
	8TH HIGHEST VALUE IS	0.00154 AT (440227.01, 4246933.81, 173.10, 183.90, 0.00)	DC	
	9TH HIGHEST VALUE IS	0.00145 AT (440477.01, 4246683.81, 183.10, 302.70, 0.00)	DC	
	10TH HIGHEST VALUE IS	0.00144 AT (440577.01, 4246633.81, 183.20, 311.20, 0.00)	DC	



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*** AERMET - VERSION 22112 *** *** Oxide Adducts; Triton; Covestro; Chemical Mixing *** 15:22:38
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*** MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

*** THE SUMMARY OF MAXIMUM PERIOD (24 HRS) RESULTS ***

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

GROUP ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
T_T_ALL	1ST HIGHEST VALUE IS 0.00539 AT (440177.01, 4247283.81, 173.10, 272.80, 0.00) DC			
	2ND HIGHEST VALUE IS 0.00439 AT (440227.01, 4247283.81, 173.10, 272.80, 0.00) DC			
	3RD HIGHEST VALUE IS 0.00384 AT (440327.01, 4246933.81, 173.10, 183.90, 0.00) DC			
	4TH HIGHEST VALUE IS 0.00362 AT (440215.68, 4247322.48, 173.10, 272.80, 0.00) DC			
	5TH HIGHEST VALUE IS 0.00335 AT (440315.68, 4246922.48, 173.10, 283.60, 0.00) DC			
	6TH HIGHEST VALUE IS 0.00323 AT (440227.01, 4247333.81, 173.10, 272.80, 0.00) DC			
	7TH HIGHEST VALUE IS 0.00316 AT (440277.01, 4247283.81, 173.10, 272.80, 0.00) DC			
	8TH HIGHEST VALUE IS 0.00296 AT (440277.01, 4247333.81, 173.10, 272.80, 0.00) DC			
	9TH HIGHEST VALUE IS 0.00252 AT (440127.01, 4247283.81, 173.10, 272.80, 0.00) DC			
	10TH HIGHEST VALUE IS 0.00242 AT (440315.68, 4247322.48, 173.10, 272.80, 0.00) DC			
T_POINT	1ST HIGHEST VALUE IS 0.01727 AT (440227.01, 4247283.81, 173.10, 272.80, 0.00) DC			
	2ND HIGHEST VALUE IS 0.01455 AT (440327.01, 4246933.81, 173.10, 183.90, 0.00) DC			
	3RD HIGHEST VALUE IS 0.01451 AT (440277.01, 4247283.81, 173.10, 272.80, 0.00) DC			
	4TH HIGHEST VALUE IS 0.01334 AT (440177.01, 4247283.81, 173.10, 272.80, 0.00) DC			
	5TH HIGHEST VALUE IS 0.01280 AT (440315.68, 4246922.48, 173.10, 283.60, 0.00) DC			
	6TH HIGHEST VALUE IS 0.01213 AT (440277.01, 4247333.81, 173.10, 272.80, 0.00) DC			
	7TH HIGHEST VALUE IS 0.01191 AT (440315.68, 4247322.48, 173.10, 272.80, 0.00) DC			
	8TH HIGHEST VALUE IS 0.01137 AT (440327.01, 4247333.81, 173.10, 272.80, 0.00) DC			
	9TH HIGHEST VALUE IS 0.01136 AT (440215.68, 4247322.48, 173.10, 272.80, 0.00) DC			
	10TH HIGHEST VALUE IS 0.01073 AT (440327.01, 4247283.81, 173.10, 272.80, 0.00) DC			
THF	1ST HIGHEST VALUE IS 0.00257 AT (440227.01, 4247283.81, 173.10, 272.80, 0.00) DC			
	2ND HIGHEST VALUE IS 0.00253 AT (440177.01, 4247283.81, 173.10, 272.80, 0.00) DC			
	3RD HIGHEST VALUE IS 0.00144 AT (440277.01, 4247283.81, 173.10, 272.80, 0.00) DC			
	4TH HIGHEST VALUE IS 0.00119 AT (440277.01, 4247333.81, 173.10, 272.80, 0.00) DC			
	5TH HIGHEST VALUE IS 0.00114 AT (440215.68, 4247322.48, 173.10, 272.80, 0.00) DC			
	6TH HIGHEST VALUE IS 0.00104 AT (440515.68, 4246822.48, 173.10, 302.70, 0.00) DC			
	7TH HIGHEST VALUE IS 0.00095 AT (440227.01, 4247333.81, 173.10, 272.80, 0.00) DC			
	8TH HIGHEST VALUE IS 0.00094 AT (440327.01, 4247283.81, 173.10, 272.80, 0.00) DC			
	9TH HIGHEST VALUE IS 0.00086 AT (440315.68, 4247322.48, 173.10, 272.80, 0.00) DC			
	10TH HIGHEST VALUE IS 0.00078 AT (440327.01, 4246933.81, 173.10, 183.90, 0.00) DC			
TRF	1ST HIGHEST VALUE IS 0.00262 AT (440327.01, 4246933.81, 173.10, 183.90, 0.00) DC			
	2ND HIGHEST VALUE IS 0.00218 AT (440315.68, 4246922.48, 173.10, 283.60, 0.00) DC			
	3RD HIGHEST VALUE IS 0.00204 AT (440227.01, 4247283.81, 173.10, 272.80, 0.00) DC			
	4TH HIGHEST VALUE IS 0.00198 AT (440277.01, 4247283.81, 173.10, 272.80, 0.00) DC			
	5TH HIGHEST VALUE IS 0.00142 AT (440327.01, 4247283.81, 173.10, 272.80, 0.00) DC			
	6TH HIGHEST VALUE IS 0.00139 AT (440315.68, 4247322.48, 173.10, 272.80, 0.00) DC			
	7TH HIGHEST VALUE IS 0.00138 AT (440615.68, 4246622.48, 183.10, 311.20, 0.00) DC			
	8TH HIGHEST VALUE IS 0.00138 AT (440577.01, 4246633.81, 183.20, 311.20, 0.00) DC			
	9TH HIGHEST VALUE IS 0.00135 AT (440277.01, 4246933.81, 173.10, 183.90, 0.00) DC			
	10TH HIGHEST VALUE IS 0.00127 AT (440627.01, 4246583.81, 184.60, 311.20, 0.00) DC			



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*** MODELOPTS: RegDFault CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U* PAGE 8

*** THE SUMMARY OF MAXIMUM PERIOD (24 HRS) RESULTS ***

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

GROUP ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
TFNC	1ST HIGHEST VALUE IS 0.00413 AT (440077.01, 4247283.81, 173.10, 272.80, 0.00)	DC		
	2ND HIGHEST VALUE IS 0.00299 AT (440077.01, 4247333.81, 173.10, 327.10, 0.00)	DC		
	3RD HIGHEST VALUE IS 0.00251 AT (440227.01, 4246983.81, 173.10, 183.90, 0.00)	DC		
	4TH HIGHEST VALUE IS 0.00220 AT (440119.85, 4247306.86, 173.10, 272.80, 0.00)	DC		
	5TH HIGHEST VALUE IS 0.00202 AT (440277.01, 4246933.81, 173.10, 183.90, 0.00)	DC		
	6TH HIGHEST VALUE IS 0.00200 AT (440115.68, 4247322.48, 173.10, 305.60, 0.00)	DC		
	7TH HIGHEST VALUE IS 0.00170 AT (440315.68, 4246922.48, 173.10, 283.60, 0.00)	DC		
	8TH HIGHEST VALUE IS 0.00169 AT (440127.01, 4247333.81, 173.10, 305.60, 0.00)	DC		
	9TH HIGHEST VALUE IS 0.00149 AT (440127.01, 4247283.81, 173.10, 272.80, 0.00)	DC		
	10TH HIGHEST VALUE IS 0.00136 AT (440327.01, 4246933.81, 173.10, 183.90, 0.00)	DC		
T_FUGIT	1ST HIGHEST VALUE IS 0.00495 AT (440227.01, 4247283.81, 173.10, 272.80, 0.00)	DC		
	2ND HIGHEST VALUE IS 0.00476 AT (440327.01, 4246933.81, 173.10, 183.90, 0.00)	DC		
	3RD HIGHEST VALUE IS 0.00467 AT (440077.01, 4247283.81, 173.10, 272.80, 0.00)	DC		
	4TH HIGHEST VALUE IS 0.00429 AT (440315.68, 4246922.48, 173.10, 283.60, 0.00)	DC		
	5TH HIGHEST VALUE IS 0.00404 AT (440177.01, 4247283.81, 173.10, 272.80, 0.00)	DC		
	6TH HIGHEST VALUE IS 0.00362 AT (440277.01, 4247283.81, 173.10, 272.80, 0.00)	DC		
	7TH HIGHEST VALUE IS 0.00350 AT (440277.01, 4246933.81, 173.10, 183.90, 0.00)	DC		
	8TH HIGHEST VALUE IS 0.00347 AT (440227.01, 4246983.81, 173.10, 183.90, 0.00)	DC		
	9TH HIGHEST VALUE IS 0.00325 AT (440077.01, 4247333.81, 173.10, 327.10, 0.00)	DC		
	10TH HIGHEST VALUE IS 0.00302 AT (440277.01, 4247333.81, 173.10, 272.80, 0.00)	DC		
TRITON	1ST HIGHEST VALUE IS 0.02222 AT (440227.01, 4247283.81, 173.10, 272.80, 0.00)	DC		
	2ND HIGHEST VALUE IS 0.01931 AT (440327.01, 4246933.81, 173.10, 183.90, 0.00)	DC		
	3RD HIGHEST VALUE IS 0.01813 AT (440277.01, 4247283.81, 173.10, 272.80, 0.00)	DC		
	4TH HIGHEST VALUE IS 0.01737 AT (440177.01, 4247283.81, 173.10, 272.80, 0.00)	DC		
	5TH HIGHEST VALUE IS 0.01709 AT (440315.68, 4246922.48, 173.10, 283.60, 0.00)	DC		
	6TH HIGHEST VALUE IS 0.01515 AT (440277.01, 4247333.81, 173.10, 272.80, 0.00)	DC		
	7TH HIGHEST VALUE IS 0.01458 AT (440315.68, 4247322.48, 173.10, 272.80, 0.00)	DC		
	8TH HIGHEST VALUE IS 0.01412 AT (440215.68, 4247322.48, 173.10, 272.80, 0.00)	DC		
	9TH HIGHEST VALUE IS 0.01386 AT (440327.01, 4247333.81, 173.10, 272.80, 0.00)	DC		
	10TH HIGHEST VALUE IS 0.01323 AT (440277.01, 4246933.81, 173.10, 183.90, 0.00)	DC		
OA_E70XP	1ST HIGHEST VALUE IS 0.00000 AT (0.00, 0.00, 0.00, 0.00, 0.00)			
	2ND HIGHEST VALUE IS 0.00000 AT (0.00, 0.00, 0.00, 0.00, 0.00)			
	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)			



*** AERMOD - VERSION 22112 ***										*** Ethylene oxide - South Charleston, WV Apr 26-27, 2022 Monitoring Eve ***										08/19/22																			
*** AERMET - VERSION 22112 ***										*** Oxide Adducts; Triton; Covestro; Chemical Mixing ***										15:22:38																			
*** MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*																				PAGE 9																			
*** THE SUMMARY OF MAXIMUM PERIOD (24 HRS) RESULTS ***																																							
										** CONC OF OTHER										IN MICROGRAMS/M**3										**									
GROUP ID					AVERAGE CONC					RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)															OF TYPE					NETWORK GRID-ID									
OA_TALLP					1ST HIGHEST VALUE IS	0.00267	AT	(	439877.01,	4246933.81,	184.90,	184.90,	0.00)	DC																									
					2ND HIGHEST VALUE IS	0.00182	AT	(	439963.24,	4246870.04,	184.50,	184.50,	0.00)	DC																									
					3RD HIGHEST VALUE IS	0.00168	AT	(	439977.01,	4246833.81,	183.50,	183.50,	0.00)	DC																									
					4TH HIGHEST VALUE IS	0.00150	AT	(	439927.01,	4246833.81,	183.60,	183.60,	0.00)	DC																									
					5TH HIGHEST VALUE IS	0.00149	AT	(	439827.01,	4246933.81,	186.10,	186.10,	0.00)	DC																									
					6TH HIGHEST VALUE IS	0.00138	AT	(	440015.68,	4246822.48,	183.40,	183.40,	0.00)	DC																									
					7TH HIGHEST VALUE IS	0.00138	AT	(	439977.01,	4246783.81,	184.10,	184.10,	0.00)	DC																									
					8TH HIGHEST VALUE IS	0.00131	AT	(	440027.01,	4246783.81,	182.00,	282.30,	0.00)	DC																									
					9TH HIGHEST VALUE IS	0.00121	AT	(	440027.01,	4246833.81,	183.70,	183.70,	0.00)	DC																									
					10TH HIGHEST VALUE IS	0.00120	AT	(	440027.01,	4246733.81,	183.10,	284.10,	0.00)	DC																									
OA_LALLP					1ST HIGHEST VALUE IS	0.00118	AT	(	439827.01,	4246933.81,	186.10,	186.10,	0.00)	DC																									
					2ND HIGHEST VALUE IS	0.00066	AT	(	439877.01,	4246833.81,	183.10,	183.10,	0.00)	DC																									
					3RD HIGHEST VALUE IS	0.00060	AT	(	439915.68,	4246822.48,	183.20,	183.20,	0.00)	DC																									
					4TH HIGHEST VALUE IS	0.00053	AT	(	439927.01,	4246833.81,	183.60,	183.60,	0.00)	DC																									
					5TH HIGHEST VALUE IS	0.00052	AT	(	439877.01,	4246933.81,	184.90,	184.90,	0.00)	DC																									
					6TH HIGHEST VALUE IS	0.00052	AT	(	439927.01,	4246783.81,	183.20,	183.20,	0.00)	DC																									
					7TH HIGHEST VALUE IS	0.00042	AT	(	439977.01,	4246733.81,	183.80,	284.10,	0.00)	DC																									
					8TH HIGHEST VALUE IS	0.00040	AT	(	439977.01,	4246783.81,	184.10,	184.10,	0.00)	DC																									
					9TH HIGHEST VALUE IS	0.00036	AT	(	440015.68,	4246722.48,	182.70,	284.10,	0.00)	DC																									
					10TH HIGHEST VALUE IS	0.00035	AT	(	439827.01,	4247133.81,	173.10,	185.00,	0.00)	DC																									
OA_POINT					1ST HIGHEST VALUE IS	0.00319	AT	(	439877.01,	4246933.81,	184.90,	184.90,	0.00)	DC																									
					2ND HIGHEST VALUE IS	0.00267	AT	(	439827.01,	4246933.81,	186.10,	186.10,	0.00)	DC																									
					3RD HIGHEST VALUE IS	0.00205	AT	(	439963.24,	4246870.04,	184.50,	184.50,	0.00)	DC																									
					4TH HIGHEST VALUE IS	0.00202	AT	(	439927.01,	4246833.81,	183.60,	183.60,	0.00)	DC																									
					5TH HIGHEST VALUE IS	0.00191	AT	(	439977.01,	4246833.81,	183.50,	183.50,	0.00)	DC																									
					6TH HIGHEST VALUE IS	0.00179	AT	(	439915.68,	4246822.48,	183.20,	183.20,	0.00)	DC																									
					7TH HIGHEST VALUE IS	0.00178	AT	(	439977.01,	4246783.81,	184.10,	184.10,	0.00)	DC																									
					8TH HIGHEST VALUE IS	0.00153	AT	(	440015.68,	4246822.48,	183.40,	183.40,	0.00)	DC																									
					9TH HIGHEST VALUE IS	0.00151	AT	(	440027.01,	4246733.81,	183.10,	284.10,	0.00)	DC																									
					10TH HIGHEST VALUE IS	0.00150	AT	(	439877.01,	4246833.81,	183.10,	183.10,	0.00)	DC																									
OAHZ2F					1ST HIGHEST VALUE IS	0.02632	AT	(	439877.01,	4246933.81,	184.90,	184.90,	0.00)	DC																									
					2ND HIGHEST VALUE IS	0.02368	AT	(	439777.01,	4247183.81,	173.10,	184.40,	0.00)	DC																									
					3RD HIGHEST VALUE IS	0.01964	AT	(	439963.24,	4246870.04,	184.50,	184.50,	0.00)	DC																									
					4TH HIGHEST VALUE IS	0.01644	AT	(	439977.01,	4246833.81,	183.50,	183.50,	0.00)	DC																									
					5TH HIGHEST VALUE IS	0.01557	AT	(	440015.68,	4247022.48,	173.10,	184.90,	0.00)	DC																									
					6TH HIGHEST VALUE IS	0.01512	AT	(	440015.68,	4246822.48,	183.40,	183.40,	0.00)	DC																									
					7TH HIGHEST VALUE IS	0.01410	AT	(	440030.81,	4246833.81,	183.70,	183.70,	0.00)	DC																									
					8TH HIGHEST VALUE IS	0.01331	AT	(	439827.01,	4247133.81,	173.10,	185.00,	0.00)	DC																									
					9TH HIGHEST VALUE IS	0.01313	AT	(	440027.01,	4246783.81,	182.00,	282.30,	0.00)	DC																									
					10TH HIGHEST VALUE IS	0.01265	AT	(	439927.01,	4247083.81,	173.10,	185.00,	0.00)	DC																									



*** AERMOD - VERSION 22112 *** *** Ethylene oxide - South Charleston, WV Apr 26-27, 2022 Monitoring Eve *** 08/19/22
*** AERMET - VERSION 22112 *** *** Oxide Adducts; Triton; Covestro; Chemical Mixing *** 15:22:38
*** MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U* PAGE 10

*** THE SUMMARY OF MAXIMUM PERIOD (24 HRS) RESULTS ***

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

GROUP ID		AVERAGE CONC		RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
OAR45F	1ST HIGHEST VALUE IS	0.03308 AT (	439727.01,	4247183.81,	173.10, 311.00,	0.00) DC
	2ND HIGHEST VALUE IS	0.02593 AT (	439877.01,	4246933.81,	184.90, 184.90,	0.00) DC
	3RD HIGHEST VALUE IS	0.02348 AT (	439827.01,	4246933.81,	186.10, 186.10,	0.00) DC
	4TH HIGHEST VALUE IS	0.02346 AT (	439777.01,	4247183.81,	173.10, 184.40,	0.00) DC
	5TH HIGHEST VALUE IS	0.01922 AT (	439927.01,	4246833.81,	183.60, 183.60,	0.00) DC
	6TH HIGHEST VALUE IS	0.01734 AT (	439977.01,	4246833.81,	183.50, 183.50,	0.00) DC
	7TH HIGHEST VALUE IS	0.01656 AT (	439915.68,	4246822.48,	183.20, 183.20,	0.00) DC
	8TH HIGHEST VALUE IS	0.01646 AT (	439977.01,	4246783.81,	184.10, 184.10,	0.00) DC
	9TH HIGHEST VALUE IS	0.01631 AT (	439963.24,	4246870.04,	184.50, 184.50,	0.00) DC
	10TH HIGHEST VALUE IS	0.01441 AT (	440015.68,	4247022.48,	173.10, 184.90,	0.00) DC
OAR6F	1ST HIGHEST VALUE IS	0.00839 AT (	439827.01,	4246933.81,	186.10, 186.10,	0.00) DC
	2ND HIGHEST VALUE IS	0.00502 AT (	439877.01,	4246933.81,	184.90, 184.90,	0.00) DC
	3RD HIGHEST VALUE IS	0.00475 AT (	439915.68,	4246822.48,	183.20, 183.20,	0.00) DC
	4TH HIGHEST VALUE IS	0.00468 AT (	439927.01,	4246833.81,	183.60, 183.60,	0.00) DC
	5TH HIGHEST VALUE IS	0.00460 AT (	439877.01,	4246833.81,	183.10, 183.10,	0.00) DC
	6TH HIGHEST VALUE IS	0.00395 AT (	439927.01,	4246783.81,	183.20, 183.20,	0.00) DC
	7TH HIGHEST VALUE IS	0.00381 AT (	439977.01,	4246783.81,	184.10, 184.10,	0.00) DC
	8TH HIGHEST VALUE IS	0.00361 AT (	439777.01,	4247183.81,	173.10, 184.40,	0.00) DC
	9TH HIGHEST VALUE IS	0.00343 AT (	439977.01,	4246733.81,	183.80, 284.10,	0.00) DC
	10TH HIGHEST VALUE IS	0.00334 AT (	439827.01,	4247133.81,	173.10, 185.00,	0.00) DC
OAR7F	1ST HIGHEST VALUE IS	0.00335 AT (	439877.01,	4246933.81,	184.90, 184.90,	0.00) DC
	2ND HIGHEST VALUE IS	0.00200 AT (	439963.24,	4246870.04,	184.50, 184.50,	0.00) DC
	3RD HIGHEST VALUE IS	0.00194 AT (	439827.01,	4246933.81,	186.10, 186.10,	0.00) DC
	4TH HIGHEST VALUE IS	0.00192 AT (	439977.01,	4246833.81,	183.50, 183.50,	0.00) DC
	5TH HIGHEST VALUE IS	0.00185 AT (	439927.01,	4246833.81,	183.60, 183.60,	0.00) DC
	6TH HIGHEST VALUE IS	0.00179 AT (	439827.01,	4247133.81,	173.10, 185.00,	0.00) DC
	7TH HIGHEST VALUE IS	0.00172 AT (	439777.01,	4247183.81,	173.10, 184.40,	0.00) DC
	8TH HIGHEST VALUE IS	0.00164 AT (	439977.01,	4246783.81,	184.10, 184.10,	0.00) DC
	9TH HIGHEST VALUE IS	0.00151 AT (	440015.68,	4246822.48,	183.40, 183.40,	0.00) DC
	10TH HIGHEST VALUE IS	0.00147 AT (	440027.01,	4246783.81,	182.00, 282.30,	0.00) DC
OAWTILF	1ST HIGHEST VALUE IS	0.04531 AT (	439619.85,	4247306.86,	180.30, 327.10,	0.00) DC
	2ND HIGHEST VALUE IS	0.01626 AT (	439677.01,	4247233.81,	173.10, 327.10,	0.00) DC
	3RD HIGHEST VALUE IS	0.01574 AT (	439477.01,	4247283.81,	173.00, 327.10,	0.00) DC
	4TH HIGHEST VALUE IS	0.01432 AT (	439627.01,	4247233.81,	173.10, 327.10,	0.00) DC
	5TH HIGHEST VALUE IS	0.01361 AT (	439715.68,	4247222.48,	173.10, 327.10,	0.00) DC
	6TH HIGHEST VALUE IS	0.01209 AT (	439615.68,	4247222.48,	173.00, 327.10,	0.00) DC
	7TH HIGHEST VALUE IS	0.01197 AT (	439577.01,	4247233.81,	173.00, 327.10,	0.00) DC
	8TH HIGHEST VALUE IS	0.01182 AT (	439427.01,	4247283.81,	173.00, 327.10,	0.00) DC
	9TH HIGHEST VALUE IS	0.01097 AT (	439727.01,	4247183.81,	173.10, 311.00,	0.00) DC
	10TH HIGHEST VALUE IS	0.00951 AT (	439527.01,	4247233.81,	173.00, 327.10,	0.00) DC



*** AERMOD - VERSION 22112 *** *** Ethylene oxide - South Charleston, WV Apr 26-27, 2022 Monitoring Eve *** 08/19/22
*** AERMET - VERSION 22112 *** *** Oxide Adducts; Triton; Covestro; Chemical Mixing *** 15:22:38
*** MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U* PAGE 11

*** THE SUMMARY OF MAXIMUM PERIOD (24 HRS) RESULTS ***

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

GROUP ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
OALIBF	1ST HIGHEST VALUE IS	0.02221 AT (439877.01, 4247133.81, 173.10, 184.90, 0.00)	DC	
	2ND HIGHEST VALUE IS	0.01446 AT (439827.01, 4247133.81, 173.10, 185.00, 0.00)	DC	
	3RD HIGHEST VALUE IS	0.01307 AT (439927.01, 4247083.81, 173.10, 185.00, 0.00)	DC	
	4TH HIGHEST VALUE IS	0.01128 AT (439915.68, 4247122.48, 173.10, 184.60, 0.00)	DC	
	5TH HIGHEST VALUE IS	0.00579 AT (439977.01, 4247083.81, 173.10, 184.70, 0.00)	DC	
	6TH HIGHEST VALUE IS	0.00556 AT (439877.01, 4247333.81, 173.10, 327.10, 0.00)	DC	
	7TH HIGHEST VALUE IS	0.00529 AT (440015.68, 4247022.48, 173.10, 184.90, 0.00)	DC	
	8TH HIGHEST VALUE IS	0.00513 AT (439915.68, 4247322.48, 173.10, 327.10, 0.00)	DC	
	9TH HIGHEST VALUE IS	0.00452 AT (440115.68, 4246822.48, 183.50, 183.50, 0.00)	DC	
	10TH HIGHEST VALUE IS	0.00446 AT (439927.01, 4247333.81, 173.10, 327.10, 0.00)	DC	
OA_FUGIT	1ST HIGHEST VALUE IS	0.06481 AT (439777.01, 4247183.81, 173.10, 184.40, 0.00)	DC	
	2ND HIGHEST VALUE IS	0.06441 AT (439877.01, 4246933.81, 184.90, 184.90, 0.00)	DC	
	3RD HIGHEST VALUE IS	0.05327 AT (439727.01, 4247183.81, 173.10, 311.00, 0.00)	DC	
	4TH HIGHEST VALUE IS	0.04707 AT (439619.85, 4247306.86, 180.30, 327.10, 0.00)	DC	
	5TH HIGHEST VALUE IS	0.04442 AT (439963.24, 4246870.04, 184.50, 184.50, 0.00)	DC	
	6TH HIGHEST VALUE IS	0.04412 AT (439827.01, 4246933.81, 186.10, 186.10, 0.00)	DC	
	7TH HIGHEST VALUE IS	0.04266 AT (439827.01, 4247133.81, 173.10, 185.00, 0.00)	DC	
	8TH HIGHEST VALUE IS	0.04203 AT (439977.01, 4246833.81, 183.50, 183.50, 0.00)	DC	
	9TH HIGHEST VALUE IS	0.03999 AT (440015.68, 4247022.48, 173.10, 184.90, 0.00)	DC	
	10TH HIGHEST VALUE IS	0.03962 AT (439927.01, 4246833.81, 183.60, 183.60, 0.00)	DC	
OA_ALL	1ST HIGHEST VALUE IS	0.06760 AT (439877.01, 4246933.81, 184.90, 184.90, 0.00)	DC	
	2ND HIGHEST VALUE IS	0.06611 AT (439777.01, 4247183.81, 173.10, 184.40, 0.00)	DC	
	3RD HIGHEST VALUE IS	0.05429 AT (439727.01, 4247183.81, 173.10, 311.00, 0.00)	DC	
	4TH HIGHEST VALUE IS	0.04713 AT (439619.85, 4247306.86, 180.30, 327.10, 0.00)	DC	
	5TH HIGHEST VALUE IS	0.04679 AT (439827.01, 4246933.81, 186.10, 186.10, 0.00)	DC	
	6TH HIGHEST VALUE IS	0.04647 AT (439963.24, 4246870.04, 184.50, 184.50, 0.00)	DC	
	7TH HIGHEST VALUE IS	0.04394 AT (439977.01, 4246833.81, 183.50, 183.50, 0.00)	DC	
	8TH HIGHEST VALUE IS	0.04392 AT (439827.01, 4247133.81, 173.10, 185.00, 0.00)	DC	
	9TH HIGHEST VALUE IS	0.04165 AT (439927.01, 4246833.81, 183.60, 183.60, 0.00)	DC	
	10TH HIGHEST VALUE IS	0.04079 AT (440015.68, 4247022.48, 173.10, 184.90, 0.00)	DC	
UCC_SC	1ST HIGHEST VALUE IS	0.06803 AT (439877.01, 4246933.81, 184.90, 184.90, 0.00)	DC	
	2ND HIGHEST VALUE IS	0.06660 AT (439777.01, 4247183.81, 173.10, 184.40, 0.00)	DC	
	3RD HIGHEST VALUE IS	0.05466 AT (439727.01, 4247183.81, 173.10, 311.00, 0.00)	DC	
	4TH HIGHEST VALUE IS	0.04738 AT (439619.85, 4247306.86, 180.30, 327.10, 0.00)	DC	
	5TH HIGHEST VALUE IS	0.04713 AT (439827.01, 4246933.81, 186.10, 186.10, 0.00)	DC	
	6TH HIGHEST VALUE IS	0.04689 AT (439963.24, 4246870.04, 184.50, 184.50, 0.00)	DC	
	7TH HIGHEST VALUE IS	0.04455 AT (439827.01, 4247133.81, 173.10, 185.00, 0.00)	DC	
	8TH HIGHEST VALUE IS	0.04431 AT (439977.01, 4246833.81, 183.50, 183.50, 0.00)	DC	
	9TH HIGHEST VALUE IS	0.04200 AT (440015.68, 4247022.48, 173.10, 184.90, 0.00)	DC	
	10TH HIGHEST VALUE IS	0.04198 AT (439927.01, 4246833.81, 183.60, 183.60, 0.00)	DC	



*** AERMOD - VERSION 22112 *** *** Ethylene oxide - South Charleston, WV Apr 26-27, 2022 Monitoring Eve *** 08/19/22
*** AERMET - VERSION 22112 *** *** Oxide Adducts; Triton; Covestro; Chemical Mixing *** 15:22:38
*** MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U* PAGE 12

*** THE SUMMARY OF MAXIMUM PERIOD (24 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 0.06852 AT (439877.01, 4246933.81, 184.90, 184.90, 0.00)	DC		
	2ND HIGHEST VALUE IS 0.06738 AT (439777.01, 4247183.81, 173.10, 184.40, 0.00)	DC		
	3RD HIGHEST VALUE IS 0.06628 AT (440515.68, 4246822.48, 173.10, 302.70, 0.00)	DC		
	4TH HIGHEST VALUE IS 0.05623 AT (440577.01, 4246783.81, 173.10, 311.20, 0.00)	DC		
	5TH HIGHEST VALUE IS 0.05523 AT (439727.01, 4247183.81, 173.10, 311.00, 0.00)	DC		
	6TH HIGHEST VALUE IS 0.04774 AT (439619.85, 4247306.86, 180.30, 327.10, 0.00)	DC		
	7TH HIGHEST VALUE IS 0.04754 AT (439827.01, 4246933.81, 186.10, 186.10, 0.00)	DC		
	8TH HIGHEST VALUE IS 0.04742 AT (439963.24, 4246870.04, 184.50, 184.50, 0.00)	DC		
	9TH HIGHEST VALUE IS 0.04644 AT (440327.01, 4246933.81, 173.10, 183.90, 0.00)	DC		
	10TH HIGHEST VALUE IS 0.04550 AT (439827.01, 4247133.81, 173.10, 185.00, 0.00)	DC		

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



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*** AERMOD - VERSION 22112 *** *** Ethylene oxide - South Charleston, WV Apr 26-27, 2022 Monitoring Eve *** 08/19/22
*** AERMET - VERSION 22112 *** *** Oxide Adducts; Triton; Covestro; Chemical Mixing *** 15:22:38
*** MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U* PAGE 13

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

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

A Total of 0 Fatal Error Message(s)
A Total of 58 Warning Message(s)
A Total of 14 Informational Message(s)

A Total of 24 Hours Were Processed

A Total of 9 Calm Hours Identified

A Total of 1 Missing Hours Identified ( 4.17 Percent)

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

***** WARNING MESSAGES *****
SO W320 21 PPARM: Input Parameter May Be Out-of-Range for Parameter QS
SO W320 21 PPARM: Input Parameter May Be Out-of-Range for Parameter VS
SO W320 22 PPARM: Input Parameter May Be Out-of-Range for Parameter QS
SO W320 22 PPARM: Input Parameter May Be Out-of-Range for Parameter VS
SO W320 23 PPARM: Input Parameter May Be Out-of-Range for Parameter QS
SO W320 23 PPARM: Input Parameter May Be Out-of-Range for Parameter VS
SO W320 24 PPARM: Input Parameter May Be Out-of-Range for Parameter QS
SO W320 25 PPARM: Input Parameter May Be Out-of-Range for Parameter QS
SO W320 93 PPARM: Input Parameter May Be Out-of-Range for Parameter QS
SO W320 94 PPARM: Input Parameter May Be Out-of-Range for Parameter QS
SO W320 95 PPARM: Input Parameter May Be Out-of-Range for Parameter QS
SO W320 96 PPARM: Input Parameter May Be Out-of-Range for Parameter QS
SO W320 97 PPARM: Input Parameter May Be Out-of-Range for Parameter QS
SO W320 98 PPARM: Input Parameter May Be Out-of-Range for Parameter QS
SO W320 101 PPARM: Input Parameter May Be Out-of-Range for Parameter QS
SO W320 102 PPARM: Input Parameter May Be Out-of-Range for Parameter QS
SO W320 104 PPARM: Input Parameter May Be Out-of-Range for Parameter QS
SO W320 105 PPARM: Input Parameter May Be Out-of-Range for Parameter QS
SO W320 106 PPARM: Input Parameter May Be Out-of-Range for Parameter QS
SO W320 120 PPARM: Input Parameter May Be Out-of-Range for Parameter QS
SO W320 131 PPARM: Input Parameter May Be Out-of-Range for Parameter QS
SO W320 132 PPARM: Input Parameter May Be Out-of-Range for Parameter QS
SO W320 133 PPARM: Input Parameter May Be Out-of-Range for Parameter QS
SO W320 134 PPARM: Input Parameter May Be Out-of-Range for Parameter QS
SO W320 145 PPARM: Input Parameter May Be Out-of-Range for Parameter QS
SO W320 147 PPARM: Input Parameter May Be Out-of-Range for Parameter QS
SO W320 198 LPARM: Aspect ratio (L/W) of LINE source greater than 100 QAWTIL
SO W320 252 PPARM: Input Parameter May Be Out-of-Range for Parameter QS
SO W320 253 PPARM: Input Parameter May Be Out-of-Range for Parameter QS
SO W320 264 PPARM: Input Parameter May Be Out-of-Range for Parameter QS
SO W320 321 PPARM: Input Parameter May Be Out-of-Range for Parameter QS
SO W320 322 PPARM: Input Parameter May Be Out-of-Range for Parameter QS
SO W320 323 PPARM: Input Parameter May Be Out-of-Range for Parameter QS
ME W187 28 MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET
OU W565 32 PERPLT: Possible Conflict with Dynamically Allocated FUNIT PLOTFILE
OU W565 38 PERPLT: Possible Conflict with Dynamically Allocated FUNIT PLOTFILE
OU W565 49 PERPLT: Possible Conflict with Dynamically Allocated FUNIT PLOTFILE
OU W565 50 PERPLT: Possible Conflict with Dynamically Allocated FUNIT PLOTFILE
OU W565 51 PERPLT: Possible Conflict with Dynamically Allocated FUNIT PLOTFILE
OU W565 52 PERPLT: Possible Conflict with Dynamically Allocated FUNIT PLOTFILE
OU W565 53 PERPLT: Possible Conflict with Dynamically Allocated FUNIT PLOTFILE
OU W565 54 PERPLT: Possible Conflict with Dynamically Allocated FUNIT PLOTFILE
OU W565 55 PERPLT: Possible Conflict with Dynamically Allocated FUNIT PLOTFILE
OU W565 56 PERPLT: Possible Conflict with Dynamically Allocated FUNIT PLOTFILE
OU W565 57 PERPLT: Possible Conflict with Dynamically Allocated FUNIT PLOTFILE
OU W565 60 PERPLT: Possible Conflict with Dynamically Allocated FUNIT PLOTFILE
OU W565 61 PERPLT: Possible Conflict with Dynamically Allocated FUNIT PLOTFILE
OU W565 62 PERPLT: Possible Conflict with Dynamically Allocated FUNIT PLOTFILE
OU W565 63 PERPLT: Possible Conflict with Dynamically Allocated FUNIT PLOTFILE
OU W565 64 PERPLT: Possible Conflict with Dynamically Allocated FUNIT PLOTFILE
OU W565 65 PERPLT: Possible Conflict with Dynamically Allocated FUNIT PLOTFILE
OU W565 66 PERPLT: Possible Conflict with Dynamically Allocated FUNIT PLOTFILE
OU W565 67 PERPLT: Possible Conflict with Dynamically Allocated FUNIT PLOTFILE
OU W565 68 PERPLT: Possible Conflict with Dynamically Allocated FUNIT PLOTFILE
OU W565 69 PERPLT: Possible Conflict with Dynamically Allocated FUNIT PLOTFILE
OU W565 70 PERPLT: Possible Conflict with Dynamically Allocated FUNIT PLOTFILE
OU W565 71 PERPLT: Possible Conflict with Dynamically Allocated FUNIT PLOTFILE
OU W565 74 PERPLT: Possible Conflict with Dynamically Allocated FUNIT PLOTFILE
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Appendix H Excerpts of Plot Files and Total EtO Concentrations for Monitoring Locations

January Monitoring Event AERMOD Concentrations for Monitoring Locations: Institute (From AERMOD Plot File)

* X	Y	AVERAGE CONC	ZELEV	ZHILL	ZFLAG	AVE	GRP	NUM HRS	NET ID
* _____									
440609.50000	4255132.46000	0.00033	333.58	353.17	0.00	PERIOD	ALL	00000026	
438708.63000	4247210.72000	0.06097	182.78	311.32	0.00	PERIOD	ALL	00000026	
440101.78000	4247450.15000	0.04370	181.45	327.12	0.00	PERIOD	ALL	00000026	
439525.26000	4247769.16000	0.04547	179.89	327.12	0.00	PERIOD	ALL	00000026	
432583.00000	4248215.06000	0.51416	181.73	314.57	0.00	PERIOD	ALL	00000026	
431998.21000	4248084.26000	0.42782	180.40	314.57	0.00	PERIOD	ALL	00000026	
432114.34000	4249063.48000	0.37495	183.18	326.46	0.00	PERIOD	ALL	00000026	
431386.12000	4248944.69000	0.54653	182.00	328.25	0.00	PERIOD	ALL	00000026	

January Monitoring Event AERMOD Concentrations for Monitoring Locations: South Charleston (From AERMOD Plot File)

* X	Y	AVERAGE CONC	ZELEV	ZHILL	ZFLAG	AVE	GRP	NUM HRS	NET ID
* _____									
440609.50000	4255132.46000	0.00003	333.58	353.17	0.00	PERIOD	ALL	00000026	
438708.63000	4247210.72000	0.00861	182.78	311.32	0.00	PERIOD	ALL	00000026	
440101.78000	4247450.15000	0.05849	181.45	327.12	0.00	PERIOD	ALL	00000026	
439525.26000	4247769.16000	0.01724	179.89	327.12	0.00	PERIOD	ALL	00000026	
432583.00000	4248215.06000	0.00061	181.73	314.57	0.00	PERIOD	ALL	00000026	



431998.21000	4248084.26000	0.00056	180.40	314.57	0.00	PERIOD	ALL	00000026
432114.34000	4249063.48000	0.00054	183.18	326.46	0.00	PERIOD	ALL	00000026
431386.12000	4248944.69000	0.00050	182.00	328.25	0.00	PERIOD	ALL	00000026



January Monitoring Event AERMOD Concentrations for Monitoring Locations: Institute and South Charleston Plot File Emissions Combined

ID Tag	Area	UTM Easting (m)	UTM Northing (m)	Institute Contribution (ug/m3)	South Charleston Contribution (ug/m3)	Total EtO Concentration (ug/m3)
Project Background	Guthrie	440609.50	4255132.47	0.00033	0.00003	0.00036
0	SC	438708.63	4247210.74	0.06097	0.00861	0.06958
3	SC	440101.78	4247450.16	0.04370	0.05849	0.10219
4	SC	439525.26	4247769.17	0.04547	0.01724	0.06271
10	I	432583.00	4248215.08	0.51416	0.00061	0.51477
13	I	431998.21	4248084.27	0.42782	0.00056	0.42838
14	I	432114.34	4249063.49	0.37495	0.00054	0.37549
15	I	431386.12	4248944.70	0.54653	0.0005	0.54703



February Monitoring Event AERMOD Concentrations for Monitoring Locations: Institute (From AERMOD Plot File)

*	X	Y	AVERAGE CONC	ZELEV	ZHILL	ZFLAG	AVE	GRP	NUM HRS	NET ID
*										
	440609.50000	4255132.46000	0.00076	333.58	353.17	0.00	PERIOD	ALL	00000025	
	438708.63000	4247210.72000	0.00526	182.78	311.32	0.00	PERIOD	ALL	00000025	
	440101.78000	4247450.15000	0.00451	181.45	327.12	0.00	PERIOD	ALL	00000025	
	439525.26000	4247769.16000	0.00480	179.89	327.12	0.00	PERIOD	ALL	00000025	
	432583.00000	4248215.06000	0.15073	181.73	314.57	0.00	PERIOD	ALL	00000025	
	431998.21000	4248084.26000	0.65099	180.40	314.57	0.00	PERIOD	ALL	00000025	
	432114.34000	4249063.48000	0.11597	183.18	326.46	0.00	PERIOD	ALL	00000025	
	431386.12000	4248944.69000	0.64299	182.00	328.25	0.00	PERIOD	ALL	00000025	

February Monitoring Event AERMOD Concentrations for Monitoring Locations: South Charleston (From AERMOD Plot File)

*	X	Y	AVERAGE CONC	ZELEV	ZHILL	ZFLAG	AVE	GRP	NUM HRS	NET ID
*										
	440609.50000	4255132.46000	0.00037	333.58	353.17	0.00	PERIOD	ALL	00000025	
	438708.63000	4247210.72000	0.02577	182.78	311.32	0.00	PERIOD	ALL	00000025	
	440101.78000	4247450.15000	0.02148	181.45	327.12	0.00	PERIOD	ALL	00000025	
	439525.26000	4247769.16000	0.03422	179.89	327.12	0.00	PERIOD	ALL	00000025	
	432583.00000	4248215.06000	0.00144	181.73	314.57	0.00	PERIOD	ALL	00000025	
	431998.21000	4248084.26000	0.00133	180.40	314.57	0.00	PERIOD	ALL	00000025	



432114.34000	4249063.48000	0.00134	183.18	326.46	0.00	PERIOD	ALL	00000025
431386.12000	4248944.69000	0.00126	182.00	328.25	0.00	PERIOD	ALL	00000025



February Monitoring Event AERMOD Concentrations for Monitoring Locations: Institute and South Charleston Plot File Emissions Combined

ID Tag	Area	UTM Easting (m)	UTM Northing (m)	Institute Contribution (ug/m3)	South Charleston Contribution (ug/m3)	Total EtO Concentration (ug/m3)
Project Background	Guthrie	440609.50	4255132.47	0.00076	0.00037	0.00113
0	SC	438708.63	4247210.74	0.00526	0.02577	0.03103
3	SC	440101.78	4247450.16	0.00451	0.02148	0.02599
4	SC	439525.26	4247769.17	0.0048	0.03422	0.03902
10	I	432583.00	4248215.08	0.15073	0.00144	0.15217
13	I	431998.21	4248084.27	0.65099	0.00133	0.65232
14	I	432114.34	4249063.49	0.11597	0.00134	0.11731
15	I	431386.12	4248944.70	0.64299	0.00126	0.64425



March Monitoring Event AERMOD Concentrations for Monitoring Locations: Institute (From AERMOD Plot File)

*	X	Y	AVERAGE CONC	ZELEV	ZHILL	ZFLAG	AVE	GRP	NUM HRS	NET ID
*										
	440609.50000	4255132.46000	0.00027	333.58	353.17	0.00	PERIOD	ALL	00000026	
	438708.63000	4247210.72000	0.03262	182.78	311.32	0.00	PERIOD	ALL	00000026	
	440101.78000	4247450.15000	0.02573	181.45	327.12	0.00	PERIOD	ALL	00000026	
	439525.26000	4247769.16000	0.02272	179.89	327.12	0.00	PERIOD	ALL	00000026	
	432583.00000	4248215.06000	0.35088	181.73	314.57	0.00	PERIOD	ALL	00000026	
	431998.21000	4248084.26000	0.33100	180.40	314.57	0.00	PERIOD	ALL	00000026	
	432114.34000	4249063.48000	0.72641	183.18	326.46	0.00	PERIOD	ALL	00000026	
	431386.12000	4248944.69000	0.57987	182.00	328.25	0.00	PERIOD	ALL	00000026	

March Monitoring Event AERMOD Concentrations for Monitoring Locations: South Charleston (From AERMOD Plot File)

*	X	Y	AVERAGE CONC	ZELEV	ZHILL	ZFLAG	AVE	GRP	NUM HRS	NET ID
*										
	440609.50000	4255132.46000	0.00098	333.58	353.17	0.00	PERIOD	ALL	00000025	
	438708.63000	4247210.72000	0.03042	182.78	311.32	0.00	PERIOD	ALL	00000025	
	440101.78000	4247450.15000	0.12233	181.45	327.12	0.00	PERIOD	ALL	00000025	
	439525.26000	4247769.16000	0.07248	179.89	327.12	0.00	PERIOD	ALL	00000025	
	432583.00000	4248215.06000	0.00213	181.73	314.57	0.00	PERIOD	ALL	00000025	
	431998.21000	4248084.26000	0.00192	180.40	314.57	0.00	PERIOD	ALL	00000025	



432114.34000	4249063.48000	0.00191	183.18	326.46	0.00	PERIOD	ALL	00000025
431386.12000	4248944.69000	0.00172	182.00	328.25	0.00	PERIOD	ALL	00000025



March Monitoring Event AERMOD Concentrations for Monitoring Locations: Institute and South Charleston Plot File Emissions Combined

ID Tag	Area	UTM Easting (m)	UTM Northing (m)	Institute Contribution (ug/m3)	South Charleston Contribution (ug/m3)	Total EtO Concentration (ug/m3)
Project Background	Guthrie	440609.50	4255132.47	0.00027	0.00098	0.00125
0	SC	438708.63	4247210.74	0.03262	0.03042	0.06304
3	SC	440101.78	4247450.16	0.02573	0.12233	0.14806
4	SC	439525.26	4247769.17	0.02272	0.07248	0.09520
10	I	432583.00	4248215.08	0.35088	0.00213	0.35301
13	I	431998.21	4248084.27	0.33100	0.00192	0.33292
14	I	432114.34	4249063.49	0.72641	0.00191	0.72832
15	I	431386.12	4248944.70	0.57987	0.00172	0.58159



April Monitoring Event AERMOD Concentrations for Monitoring Locations: Institute (From AERMOD Plot File)

*	X	Y	AVERAGE CONC	ZELEV	ZHILL	ZFLAG	AVE	GRP	NUM HRS	NET ID
*										
	440609.50000	4255132.46000	0.00013	333.58	353.17	0.00	PERIOD	ALL	00000024	
	438708.63000	4247210.72000	0.00318	182.78	311.32	0.00	PERIOD	ALL	00000024	
	440101.78000	4247450.15000	0.00484	181.45	327.12	0.00	PERIOD	ALL	00000024	
	439525.26000	4247769.16000	0.00629	179.89	327.12	0.00	PERIOD	ALL	00000024	
	432583.00000	4248215.06000	0.14437	181.73	314.57	0.00	PERIOD	ALL	00000024	
	431998.21000	4248084.26000	0.05382	180.40	314.57	0.00	PERIOD	ALL	00000024	
	432114.34000	4249063.48000	0.16739	183.18	326.46	0.00	PERIOD	ALL	00000024	
	431386.12000	4248944.69000	0.15172	182.00	328.25	0.00	PERIOD	ALL	00000024	
	420031.50000	4273465.21000	0.00029	181.17	271.57	0.00	PERIOD	ALL	00000024	

April Monitoring Event AERMOD Concentrations for Monitoring Locations: South Charleston (From AERMOD Plot File)

*	X	Y	AVERAGE CONC	ZELEV	ZHILL	ZFLAG	AVE	GRP	NUM HRS	NET ID
*										
	440609.50000	4255132.46000	0	333.58	353.17	0.00	PERIOD	ALL	00000024	
	438708.63000	4247210.72000	0.00022	182.78	311.32	0.00	PERIOD	ALL	00000024	
	440101.78000	4247450.15000	0.01256	181.45	327.12	0.00	PERIOD	ALL	00000024	
	439525.26000	4247769.16000	0.00056	179.89	327.12	0.00	PERIOD	ALL	00000024	
	432583.00000	4248215.06000	0.00002	181.73	314.57	0.00	PERIOD	ALL	00000024	



431998.21000 4248084.26000 0.00002 180.40 314.57 0.00 PERIOD ALL 00000024
432114.34000 4249063.48000 0.00002 183.18 326.46 0.00 PERIOD ALL 00000024
431386.12000 4248944.69000 0.00002 182.00 328.25 0.00 PERIOD ALL 00000024
420031.50000 4273465.21000 0 181.17 271.57 0.00 PERIOD ALL 00000024

April Monitoring Event AERMOD Concentrations for Monitoring Locations: Institute and South Charleston Plot File Emissions Combined

ID Tag	Area	UTM Easting (m)	UTM Northing (m)	Institute Contribution (ug/m3)	South Charleston Contribution (ug/m3)	Total EtO Concentration (ug/m3)
Project Background	Guthrie	440609.50	4255132.47	0.00013	0	0.00013
0	SC	438708.63	4247210.74	0.00318	0.00022	0.00340
3	SC	440101.78	4247450.16	0.00484	0.01256	0.01740
4	SC	439525.26	4247769.17	0.00629	0.00629	0.01258
10	I	432583.00	4248215.08	0.14437	0.00002	0.14439
13	I	431998.21	4248084.27	0.05382	0.00002	0.05384
14	I	432114.34	4249063.49	0.16739	0.00002	0.16741
15	I	431386.12	4248944.70	0.15172	0.00002	0.15174
Project Background	Buffalo	420031.50	4273465.21	0.00029	0	0.00029