

# **Appendix C**

## **AERMOD Input and Output Files for the Maintenance Modeling Analysis**

# AERMOD Input File

(Receptor grid removed due to its size, full input files in digital format available upon request)  
(Only one input file is included here since the receptor grid is the only difference between the 4 sub-grid input files)

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\*\* AERMOD Control Pathway

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CO STARTING

TITLEONE SO2 Jefferson NAA Redesignation Modeling All Sources at Actuals with Hourly 99th percentile value (CEMS) for 3 Ameren plants (Using 13-15 CEMS along with corresponding release parameters as provided by company for most recent) with 13-15 Cahokia Surface Met/Lincoln Upper Air.

\*\*Excluding Herc Emissions as they have shutdown as of 1/1/2014 Revised 6-15-16

\*\*NAA Grid-100m Spacing Grid 1 of 4

\*\*Project # 2010-SO2-6B 1 hour Jefferson NAA Redesignation

MODELOPT DFAULT CONC

AVERTIME 1

POLLUTID SO2

RUNORNOT RUN

ERRORFIL JeffersonCountyNAA.err

CO FINISHED

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\*\* AERMOD Source Pathway

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SO STARTING

\*\*Ameren Labadie

\*\*Boiler #3 and #4 Merged Flues, treat as one stack, use equiv. stack diam

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SO LOCATION LAB34 Point 688435.47 4270332.33 149.66

SO SRCPARAM LAB34 820.58 213.36 447.22 30.77 8.836

\*\*Boiler #1

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SO LOCATION LABADIE1 Point 688352.17 4270445.59 149.66

SO SRCPARAM LABADIE1 407.46 213.36 443.94 32.48 6.2484

\*\*Boiler #2

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SO LOCATION LABADIE2 Point 688387.01 4270400.40 149.66

SO SRCPARAM LABADIE2 403.45 213.36 437.97 31.88 6.2484

\*\*Emergency Diesel Generator at 2014 reported emissions

\*\*operates 8736 hr per year so it was included. Emission are released through a stack

SO LOCATION LABADIE5 Point 688439.28 4270327.43 149.66  
 SO SRCPARAM LABADIE5 0.0000028 9.144 866.4833333 7.112 0.3048

\*\*BPIP Outputs Dated January 11, 2012

SO BUILDHGT LAB34	78.44	78.44	78.44	78.44	78.44	78.44
SO BUILDHGT LAB34	78.44	78.44	78.44	78.44	78.44	78.44
SO BUILDHGT LAB34	27.71	27.71	78.44	78.44	78.44	78.44
SO BUILDHGT LAB34	78.44	78.44	78.44	78.44	78.44	78.44
SO BUILDHGT LAB34	78.44	78.44	78.44	78.44	78.44	78.44
SO BUILDHGT LAB34	27.71	27.71	78.44	78.44	78.44	78.44
SO BUILDWID LAB34	195.26	212.09	222.49	226.12	222.88	222.69
SO BUILDWID LAB34	220.81	212.22	197.19	176.16	149.79	118.86
SO BUILDWID LAB34	69.54	30.46	76.28	112.08	144.48	172.49
SO BUILDWID LAB34	195.26	212.09	222.49	226.12	222.88	222.69
SO BUILDWID LAB34	220.81	212.22	197.19	176.16	149.79	118.86
SO BUILDWID LAB34	69.54	30.46	76.28	112.08	144.48	172.49
SO BUILDLLEN LAB34	176.16	149.79	118.86	84.32	47.21	76.28
SO BUILDLLEN LAB34	112.08	144.48	172.49	195.26	212.09	222.49
SO BUILDLLEN LAB34	230.71	230.36	222.69	220.81	212.22	197.19
SO BUILDLLEN LAB34	176.16	149.79	118.86	84.32	47.21	76.28
SO BUILDLLEN LAB34	112.08	144.48	172.49	195.26	212.09	222.49
SO BUILDLLEN LAB34	230.71	230.36	222.69	220.81	212.22	197.19
SO XBADJ LAB34	8.93	21.31	33.04	43.77	53.16	26.03
SO XBADJ LAB34	-5.13	-36.13	-66.04	-93.94	-118.99	-140.42
SO XBADJ LAB34	-177.41	-174.21	-183.20	-192.51	-195.97	-193.47
SO XBADJ LAB34	-185.09	-171.09	-151.89	-128.08	-100.38	-102.31
SO XBADJ LAB34	-106.95	-108.35	-106.45	-101.32	-93.11	-82.07
SO XBADJ LAB34	-53.30	-56.15	-39.48	-28.30	-16.26	-3.72
SO YBADJ LAB34	-3.69	12.94	29.17	44.52	58.52	71.86
SO YBADJ LAB34	82.11	89.86	94.88	97.01	96.20	92.47
SO YBADJ LAB34	-13.38	-23.94	64.17	50.91	36.11	20.20
SO YBADJ LAB34	3.69	-12.94	-29.17	-44.52	-58.52	-71.86
SO YBADJ LAB34	-82.11	-89.86	-94.88	-97.01	-96.20	-92.47
SO YBADJ LAB34	13.38	23.94	-64.17	-50.91	-36.11	-20.20
SO BUILDHGT LABADIE1	78.44	78.44	78.44	78.44	78.44	78.44
SO BUILDHGT LABADIE1	78.44	78.44	78.44	78.44	78.44	78.44
SO BUILDHGT LABADIE1	78.44	25.37	27.71	78.44	78.44	78.44
SO BUILDHGT LABADIE1	78.44	78.44	78.44	78.44	78.44	78.44
SO BUILDHGT LABADIE1	78.44	78.44	78.44	78.44	78.44	78.44
SO BUILDHGT LABADIE1	78.44	25.37	27.71	78.44	78.44	78.44
SO BUILDWID LABADIE1	195.26	212.09	222.49	226.12	222.88	222.69
SO BUILDWID LABADIE1	220.81	212.22	197.19	176.16	149.79	118.86
SO BUILDWID LABADIE1	84.32	43.39	61.83	112.08	144.48	172.49
SO BUILDWID LABADIE1	195.26	212.09	222.49	226.12	222.88	222.69
SO BUILDWID LABADIE1	220.81	212.22	197.19	176.16	149.79	118.86
SO BUILDWID LABADIE1	84.32	43.39	61.83	112.08	144.48	172.49
SO BUILDLLEN LABADIE1	176.16	149.79	118.86	84.32	47.21	76.28
SO BUILDLLEN LABADIE1	112.08	144.48	172.49	195.26	212.09	222.49
SO BUILDLLEN LABADIE1	226.12	220.00	229.51	220.81	212.22	197.19
SO BUILDLLEN LABADIE1	176.16	149.79	118.86	84.32	47.21	76.28
SO BUILDLLEN LABADIE1	112.08	144.48	172.49	195.26	212.09	222.49
SO BUILDLLEN LABADIE1	226.12	220.00	229.51	220.81	212.22	197.19
SO XBADJ LABADIE1	-88.14	-56.63	-23.40	10.55	44.17	41.54
SO XBADJ LABADIE1	34.41	26.23	17.26	7.76	-1.97	-11.65
SO XBADJ LABADIE1	-20.97	-30.23	-28.68	-57.59	-69.96	-80.21

SO XBADJ	LABADIE1	-88.02	-93.15	-95.46	-94.86	-91.38	-117.82
SO XBADJ	LABADIE1	-146.49	-170.71	-189.75	-203.02	-210.12	-210.84
SO XBADJ	LABADIE1	-205.15	-189.77	-200.83	-163.22	-142.26	-116.98
SO YBADJ	LABADIE1	-105.39	-104.07	-99.60	-92.09	-81.79	-67.87
SO YBADJ	LABADIE1	-52.81	-36.15	-18.38	-0.06	18.26	36.03
SO YBADJ	LABADIE1	52.71	25.71	-16.96	90.45	98.47	103.50
SO YBADJ	LABADIE1	105.39	104.07	99.60	92.09	81.79	67.87
SO YBADJ	LABADIE1	52.81	36.15	18.38	0.06	-18.26	-36.03
SO YBADJ	LABADIE1	-52.71	-25.71	16.96	-90.45	-98.47	-103.51
SO BUILDHGT	LABADIE2	78.44	78.44	78.44	78.44	78.44	78.44
SO BUILDHGT	LABADIE2	78.44	78.44	78.44	78.44	78.44	78.44
SO BUILDHGT	LABADIE2	78.44	25.37	78.44	78.44	78.44	78.44
SO BUILDHGT	LABADIE2	78.44	78.44	78.44	78.44	78.44	78.44
SO BUILDHGT	LABADIE2	78.44	78.44	78.44	78.44	78.44	78.44
SO BUILDHGT	LABADIE2	78.44	25.37	78.44	78.44	78.44	78.44
SO BUILDWID	LABADIE2	195.26	212.09	222.49	226.12	222.88	222.69
SO BUILDWID	LABADIE2	220.81	212.22	197.19	176.16	149.79	118.86
SO BUILDWID	LABADIE2	84.32	43.39	76.28	112.08	144.48	172.49
SO BUILDWID	LABADIE2	195.26	212.09	222.49	226.12	222.88	222.69
SO BUILDWID	LABADIE2	220.81	212.22	197.19	176.16	149.79	118.86
SO BUILDWID	LABADIE2	84.32	43.39	76.28	112.08	144.48	172.49
SO BUILDLEN	LABADIE2	176.16	149.79	118.86	84.32	47.21	76.28
SO BUILDLEN	LABADIE2	112.08	144.48	172.49	195.26	212.09	222.49
SO BUILDLEN	LABADIE2	226.12	220.00	222.69	220.81	212.22	197.19
SO BUILDLEN	LABADIE2	176.16	149.79	118.86	84.32	47.21	76.28
SO BUILDLEN	LABADIE2	112.08	144.48	172.49	195.26	212.09	222.49
SO BUILDLEN	LABADIE2	226.12	220.00	222.69	220.81	212.22	197.19
SO XBADJ	LABADIE2	-49.69	-26.08	-1.68	22.77	46.53	33.97
SO XBADJ	LABADIE2	17.13	-0.23	-17.58	-34.40	-50.17	-64.41
SO XBADJ	LABADIE2	-76.70	-87.24	-100.02	-111.97	-120.52	-125.40
SO XBADJ	LABADIE2	-126.47	-123.70	-117.17	-107.09	-93.74	-110.24
SO XBADJ	LABADIE2	-129.21	-144.25	-154.91	-160.86	-161.93	-158.07
SO XBADJ	LABADIE2	-149.41	-132.76	-122.66	-108.84	-91.71	-71.79
SO YBADJ	LABADIE2	-63.23	-55.88	-46.83	-36.35	-24.78	-11.32
SO YBADJ	LABADIE2	1.57	14.40	26.81	38.39	48.81	57.75
SO YBADJ	LABADIE2	64.93	28.07	72.10	73.17	72.01	68.66
SO YBADJ	LABADIE2	63.23	55.88	46.83	36.35	24.78	11.32
SO YBADJ	LABADIE2	-1.57	-14.40	-26.81	-38.39	-48.81	-57.75
SO YBADJ	LABADIE2	-64.93	-28.07	-72.10	-73.17	-72.01	-68.66

\*\*Ameren Meramec

\*\*Boiler #1

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SO LOCATION MER1 Point 732714.14 4253776.27 127.47

SO SRCPARAM MER1 0.12 76.2 437.06 29.67 3.3528

\*\*Boiler #2

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SO LOCATION MER2 POINT 732675.11 4253783.41 127.71

SO SRCPARAM MER2 0.12 76.2 435.13 32.13 3.3528

\*\*Boiler #3

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SO LOCATION MER3 POINT 732626.15 4253790.07 127.96

SO SRCPARAM MER3 176.05 106.68 476.50 36.42 4.2672

\*\*Boiler #4

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SO LOCATION MER4 POINT 732582.63 4253799.56 128.13

SO SRCPARAM MER4 244.10 106.68 444.39 35.48 4.8768

\*\*EMERGENCY DIESEL GEN. at 2014 reported emissions

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SO LOCATION EU5 Point 732735.459 4253533.206 128.13

SO SRCPARAM EU5 0.0019 12.192 612.0388889 11.61288 0.3048

\*\*Internal Combustion Engines at 2014 reported emissions (CT1)

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SO LOCATION MER6 Point 732735.459 4253533.206 128.13

SO SRCPARAM MER6 0.004 9.7536 838.7055556 31.63824 3.6576

\*\*Internal Combustion Engines at 2014 reported emissions (CT2A and CT2B)

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SO LOCATION MER62 Point 732735.459 4253533.206 128.13

SO SRCPARAM MER62 0.00038 8.99 838.71 20.97 4.75

\*\*Meramec BPIP

\*\*BPIP Output Dated January 30, 2014

SO BUILDHGT MER1 41.88 41.88 41.88 41.88 41.88 41.88

SO BUILDHGT MER1 41.88 41.88 29.95 27.81 41.88 52.12

SO BUILDHGT MER1 52.12 41.88 41.88 41.88 41.88 41.88

SO BUILDHGT MER1 41.88 41.88 41.88 41.88 41.88 41.88

SO BUILDHGT MER1 41.88 41.88 27.81 27.81 41.88 41.88

SO BUILDHGT MER1 41.88 41.88 41.88 41.88 41.88 41.88

SO BUILDWID MER1 170.39 174.11 174.3 169.2 158.95 143.88

SO BUILDWID MER1 124.43 101.2 30.45 25.56 59.41 36.57

SO BUILDWID MER1 38.43 116.92 136.73 152.39 163.42 169.48

SO BUILDWID MER1 170.39 174.11 174.3 169.2 158.95 143.88

SO BUILDWID MER1 124.43 101.2 28.98 25.56 59.41 80.18

SO BUILDWID MER1 98.51 116.92 136.73 152.39 163.42 169.48

SO BUILDLEN MER1 46.32 59.41 80.18 98.51 116.92 136.73

SO BUILDLEN MER1 152.39 163.42 55.77 83.4 174.11 44.22

SO BUILDLEN MER1 45.77 158.95 143.88 124.43 101.2 74.9

SO BUILDLEN MER1 46.32 59.41 80.18 98.51 116.92 136.73

SO BUILDLEN MER1 152.39 163.42 49.12 83.4 174.11 174.3

SO BUILDLEN MER1 169.2 158.95 143.88 124.43 101.2 74.9

SO XBADJ MER1 24.13 6.64 -15.2 -36.57 -59.89 -86.36

SO XBADJ MER1 -110.2 -130.69 -169.5 -108.22 -168.61 -168.62

SO XBADJ MER1 -165.65 -166.92 -156.03 -140.4 -120.51 -96.95

SO XBADJ MER1 -70.45 -66.05 -64.98 -61.95 -57.03 -50.38

SO XBADJ MER1 -42.19 -32.73 0.47 24.83 -5.5 -1

SO XBADJ MER1 3.54 7.97 12.16 15.97 19.3 22.05

SO YBADJ MER1 74.06 81.55 86.15 88.14 87.44 84.09

SO YBADJ MER1 78.19 69.91 1.68 -20.62 36.34 -8.78

SO YBADJ MER1 -34.08 -1.43 -17.99 -34 -48.98 -62.47

SO YBADJ MER1 -74.06 -81.55 -86.15 -88.14 -87.44 -84.09

SO YBADJ MER1 -78.19 -69.91 14.43 20.62 -36.34 -24.89

SO YBADJ MER1 -12.69 1.43 17.99 34 48.98 62.47

SO BUILDHGT MER2 41.88 41.88 41.88 41.88 41.88 41.88  
SO BUILDHGT MER2 41.88 41.88 41.88 27.81 41.88 52.12  
SO BUILDHGT MER2 52.12 52.12 41.88 41.88 41.88 41.88  
SO BUILDHGT MER2 41.88 41.88 41.88 41.88 41.88 41.88  
SO BUILDHGT MER2 41.88 41.88 41.88 27.81 41.88 41.88  
SO BUILDHGT MER2 41.88 52.12 41.88 41.88 41.88 41.88  
SO BUILDWID MER2 170.39 174.11 174.3 169.2 158.95 143.88  
SO BUILDWID MER2 124.43 101.2 74.9 25.56 59.41 36.57  
SO BUILDWID MER2 40.87 42 136.73 152.39 163.42 169.48  
SO BUILDWID MER2 170.39 174.11 174.3 169.2 158.95 143.88  
SO BUILDWID MER2 124.43 101.2 74.9 25.56 59.41 80.18  
SO BUILDWID MER2 98.51 42 136.73 152.39 163.42 169.48  
SO BUILDLEN MER2 46.32 59.41 80.18 98.51 116.92 136.73  
SO BUILDLEN MER2 152.39 163.42 169.48 83.4 174.11 44.22  
SO BUILDLEN MER2 45.77 45.94 143.88 124.43 101.2 74.9  
SO BUILDLEN MER2 46.32 59.41 80.18 98.51 116.92 136.73  
SO BUILDLEN MER2 152.39 163.42 169.48 83.4 174.11 174.3  
SO BUILDLEN MER2 169.2 45.94 143.88 124.43 101.2 74.9  
SO XBADJ MER2 23.87 13.28 -1.86 -16.95 -34.58 -56.13  
SO XBADJ MER2 -75.96 -93.49 -108.18 -68.55 -129.49 -131.25  
SO XBADJ MER2 -131.16 -127.08 -130.33 -120.34 -106.7 -89.81  
SO XBADJ MER2 -70.19 -72.69 -78.32 -81.57 -82.34 -80.61  
SO XBADJ MER2 -76.43 -69.93 -61.3 -14.85 -44.62 -38.37  
SO XBADJ MER2 -30.95 81.14 -13.54 -4.09 5.5 14.91  
SO YBADJ MER2 34.38 42.43 48.78 53.65 56.89 58.4  
SO YBADJ MER2 58.13 56.1 52.36 -20.88 42.98 4.55  
SO YBADJ MER2 -14.47 -33.05 12.24 0.23 -11.78 -23.44  
SO YBADJ MER2 -34.38 -42.43 -48.78 -53.65 -56.89 -58.4  
SO YBADJ MER2 -58.13 -56.1 -52.36 20.88 -42.98 -38.23  
SO YBADJ MER2 -32.31 33.05 -12.24 -0.23 11.78 23.44

SO BUILDHGT MER3 41.88 41.88 41.88 41.88 41.88 41.88  
SO BUILDHGT MER3 41.88 41.88 41.88 27.81 41.88 52.12  
SO BUILDHGT MER3 52.12 52.12 52.12 52.12 52.12 41.88  
SO BUILDHGT MER3 41.88 41.88 41.88 41.88 41.88 41.88  
SO BUILDHGT MER3 41.88 41.88 41.88 27.81 41.88 52.12  
SO BUILDHGT MER3 52.12 52.12 52.12 52.12 52.12 41.88  
SO BUILDWID MER3 170.39 174.11 174.3 169.2 158.95 143.88  
SO BUILDWID MER3 124.43 101.2 74.9 25.56 64.83 36.57  
SO BUILDWID MER3 40.87 43.93 45.65 45.99 44.93 169.48  
SO BUILDWID MER3 170.39 174.11 174.3 169.2 158.95 143.88  
SO BUILDWID MER3 124.43 101.2 74.9 25.56 64.83 36.57  
SO BUILDWID MER3 40.87 43.93 45.65 45.99 44.93 169.48  
SO BUILDLEN MER3 46.32 59.41 80.18 98.51 116.92 136.73  
SO BUILDLEN MER3 152.39 163.42 169.48 83.4 174.11 44.22  
SO BUILDLEN MER3 45.77 45.94 44.71 42.12 38.25 74.9  
SO BUILDLEN MER3 46.32 59.41 80.18 98.51 116.92 136.73  
SO BUILDLEN MER3 152.39 163.42 169.48 83.4 174.11 44.22  
SO BUILDLEN MER3 45.77 45.94 44.71 42.12 38.25 74.9  
SO XBADJ MER3 25.81 23.76 16.85 9.42 -1.36 -17.06  
SO XBADJ MER3 -32.23 -46.43 -59.22 -19.18 -81.2 -85.52  
SO XBADJ MER3 -89.37 -90.51 -88.9 -84.59 -77.7 -83.15  
SO XBADJ MER3 -72.14 -83.17 -97.03 -107.94 -115.56 -119.68  
SO XBADJ MER3 -120.16 -116.99 -110.26 -64.22 -92.9 41.3  
SO XBADJ MER3 43.6 44.57 44.19 42.47 39.45 8.25

SO YBADJ MER3 -14.99 -5.85 3.05 11.86 20.31 28.15  
SO YBADJ MER3 35.13 41.04 45.7 -18.94 50.76 23.27  
SO YBADJ MER3 11.9 0.18 -11.55 -22.93 -33.61 25.52  
SO YBADJ MER3 14.99 5.85 -3.05 -11.86 -20.31 -28.15  
SO YBADJ MER3 -35.13 -41.04 -45.7 18.94 -50.76 -23.27  
SO YBADJ MER3 -11.9 -0.18 11.55 22.93 33.61 -25.52

SO BUILDHGT MER4 52.12 52.12 52.12 52.12 52.12 52.12  
SO BUILDHGT MER4 52.12 41.88 41.88 27.81 28.73 41.88  
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SO BUILDHGT MER4 52.12 52.12 52.12 52.12 52.12 52.12  
SO BUILDWID MER4 38.79 41.32 44.22 45.77 45.94 44.71  
SO BUILDWID MER4 42.12 101.2 74.9 25.56 32.53 92.05  
SO BUILDWID MER4 40.87 43.93 45.65 45.99 44.93 42.51  
SO BUILDWID MER4 38.79 41.32 44.22 45.77 45.94 44.71  
SO BUILDWID MER4 42.12 101.2 74.9 25.56 32.53 92.05  
SO BUILDWID MER4 40.87 43.93 45.65 45.99 44.93 42.51  
SO BUILDLEN MER4 27.18 31.15 36.57 40.87 43.93 45.65  
SO BUILDLEN MER4 45.99 163.42 169.48 83.4 77.19 174.3  
SO BUILDLEN MER4 45.77 45.94 44.71 42.12 38.25 33.22  
SO BUILDLEN MER4 27.18 31.15 36.57 40.87 43.93 45.65  
SO BUILDLEN MER4 45.99 163.42 169.48 83.4 77.19 174.3  
SO BUILDLEN MER4 45.77 45.94 44.71 42.12 38.25 33.22  
SO XBADJ MER4 28.17 24.31 18.52 12.17 5.45 -1.44  
SO XBADJ MER4 -8.28 -5.22 -15.7 25.33 -1.15 -47.77  
SO XBADJ MER4 -49.93 -55.27 -58.92 -60.78 -60.8 -58.97  
SO XBADJ MER4 -55.35 -55.47 -55.09 -53.04 -49.38 -44.22  
SO XBADJ MER4 -37.71 -158.2 -153.78 -108.73 -76.05 -126.53  
SO XBADJ MER4 4.16 9.33 14.21 18.66 22.55 25.75  
SO YBADJ MER4 7.11 14.26 20.97 27.04 32.3 36.56  
SO YBADJ MER4 39.72 24.13 36.21 -20.72 -17.08 64.55  
SO YBADJ MER4 32.61 27.42 21.39 14.72 7.6 0.24  
SO YBADJ MER4 -7.11 -14.26 -20.97 -27.04 -32.3 -36.56  
SO YBADJ MER4 -39.72 -24.13 -36.21 20.72 17.08 -64.55  
SO YBADJ MER4 -32.61 -27.42 -21.39 -14.72 -7.6 -0.24

SO BUILDHGT MER6 8.84 8.84 8.84 8.84 8.84 8.84  
SO BUILDHGT MER6 8.84 8.84 8.84 8.84 8.84 8.84  
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SO BUILDHGT MER6 8.84 8.84 8.84 8.84 8.84 41.88  
SO BUILDHGT MER6 52.12 52.12 8.84 8.84 8.84 8.84  
SO BUILDWID MER6 24.81 28.65 31.62 33.62 34.61 34.54  
SO BUILDWID MER6 34.41 34.69 33.91 32.10 29.32 25.65  
SO BUILDWID MER6 21.26 17.33 12.87 10.95 15.01 20.22  
SO BUILDWID MER6 24.81 28.65 31.62 33.62 34.61 34.54  
SO BUILDWID MER6 34.41 34.69 33.91 32.10 29.32 80.18  
SO BUILDWID MER6 40.87 43.35 12.87 10.95 15.01 20.22  
SO BUILDLEN MER6 32.10 29.32 25.65 21.26 17.33 12.87  
SO BUILDLEN MER6 10.95 15.01 20.22 24.81 28.65 31.62  
SO BUILDLEN MER6 33.62 34.61 34.54 34.41 34.69 33.91  
SO BUILDLEN MER6 32.10 29.32 25.65 21.26 17.33 12.87  
SO BUILDLEN MER6 10.95 15.01 20.22 24.81 28.65 174.30

SO BUILDLLEN MER6	45.77	45.94	34.54	34.41	34.69	33.91
SO XBADJ MER6	-2.83	-1.43	0.02	1.40	1.64	1.83
SO XBADJ MER6	1.40	-1.83	-6.60	-11.17	-15.41	-19.17
SO XBADJ MER6	-22.35	-24.86	-26.60	-28.04	-29.34	-29.76
SO XBADJ MER6	-29.27	-27.89	-25.67	-22.66	-18.97	-14.70
SO XBADJ MER6	-12.35	-13.19	-13.62	-13.64	-13.24	-355.40
SO XBADJ MER6	-235.25	-233.35	-7.94	-6.37	-5.34	-4.15
SO YBADJ MER6	-1.23	1.08	3.36	5.54	7.55	9.33
SO YBADJ MER6	10.83	12.00	12.80	13.22	13.23	12.84
SO YBADJ MER6	12.03	10.30	8.26	6.88	5.68	3.51
SO YBADJ MER6	1.23	-1.08	-3.36	-5.54	-7.55	-9.33
SO YBADJ MER6	-10.83	-12.00	-12.80	-13.22	-13.23	10.25
SO YBADJ MER6	7.16	-29.83	-8.26	-6.88	-5.68	-3.51

SO BUILDHGT MER62	7.32	7.32	8.84	6.25	6.25	6.25
SO BUILDHGT MER62	6.25	6.25	6.25	6.25	6.25	8.99
SO BUILDHGT MER62	8.99	8.99	8.99	8.99	8.99	8.99
SO BUILDHGT MER62	6.25	6.25	8.84	8.84	8.84	8.84
SO BUILDHGT MER62	8.84	8.84	8.84	6.25	41.88	41.88
SO BUILDHGT MER62	41.88	8.99	8.99	8.99	8.99	7.32
SO BUILDWID MER62	14.33	14.33	31.62	24.67	25.42	25.39
SO BUILDWID MER62	25.29	25.46	24.87	23.52	21.45	5.81
SO BUILDWID MER62	5.81	5.63	5.29	5.20	5.58	5.79
SO BUILDWID MER62	18.13	20.97	31.62	33.62	34.61	34.54
SO BUILDWID MER62	34.41	34.69	33.91	23.52	59.41	80.18
SO BUILDWID MER62	98.51	5.63	5.29	5.20	5.58	14.33
SO BUILDLLEN MER62	14.33	14.33	25.65	15.45	11.70	7.59
SO BUILDLLEN MER62	6.73	10.90	14.74	18.13	20.97	5.37
SO BUILDLLEN MER62	4.89	4.27	3.51	3.34	4.12	4.77
SO BUILDLLEN MER62	23.52	21.45	25.65	21.26	17.33	12.87
SO BUILDLLEN MER62	10.95	15.01	20.22	18.13	174.11	174.30
SO BUILDLLEN MER62	169.20	4.27	3.51	3.34	4.12	14.33
SO XBADJ MER62	-49.51	-49.34	17.59	-5.14	-3.88	-2.51
SO XBADJ MER62	-2.80	-5.63	-8.28	-10.68	-12.76	5.78
SO XBADJ MER62	6.78	7.57	-19.72	8.09	-19.88	6.26
SO XBADJ MER62	-15.68	-14.31	-43.24	-43.47	-42.38	-40.00
SO XBADJ MER62	-38.78	-39.94	-39.88	-7.45	-371.34	-375.58
SO XBADJ MER62	-368.40	-11.83	-11.63	-11.43	-11.40	-48.40
SO YBADJ MER62	2.69	-4.70	-16.81	3.36	3.76	4.04
SO YBADJ MER62	4.21	4.24	4.15	3.92	3.58	-5.09
SO YBADJ MER62	-3.55	-1.89	2.75	1.54	-3.56	4.79
SO YBADJ MER62	-1.62	-2.27	16.81	11.28	5.40	-0.65
SO YBADJ MER62	-6.67	-12.49	-17.94	-3.92	46.01	-7.32
SO YBADJ MER62	-60.43	1.89	0.18	-1.54	-3.21	10.00

\*\*Rush Island

\*\*Boiler #1 and #2 Merged Flues, treat as one stack, use equiv. stack diam

\*\* Use actual stack height as modeling with actual emissions

SO LOCATION Rush12 Point 739918.06 4223889.95 125.27

SO SRCPARAM Rush12 873.76 213.36 437.39 29.44 8.928

\*\*Auxiliary Boiler at 2014 reported emissions

\*\*

SO LOCATION RUSH3 Point 739890.00 4224000.00 125.27

SO SRCPARAM RUSH3 0.000069 84.582 577.5944444 10.0584 1.524



\*\*BPIP Outputs Dated January 23, 2012

SO BUILDHGT Rush12	81.99	81.99	27.93	27.93	27.93	27.93
SO BUILDHGT Rush12	27.93	27.93	81.99	81.99	81.99	81.99
SO BUILDHGT Rush12	81.99	81.99	81.99	81.99	81.99	81.99
SO BUILDHGT Rush12	81.99	81.99	27.93	27.93	27.93	27.93
SO BUILDHGT Rush12	27.93	27.93	81.99	81.99	81.99	81.99
SO BUILDHGT Rush12	81.99	81.99	81.99	81.99	81.99	81.99
SO BUILDWID Rush12	92.65	83.82	85.03	81.01	74.53	79.12
SO BUILDWID Rush12	83.63	85.61	89.11	96.27	100.50	101.68
SO BUILDWID Rush12	99.77	94.83	98.46	101.62	101.69	98.67
SO BUILDWID Rush12	92.65	83.82	85.03	81.01	74.53	79.12
SO BUILDWID Rush12	83.63	85.61	89.11	96.27	100.50	101.68
SO BUILDWID Rush12	99.77	94.83	98.46	101.62	101.69	98.67
SO BUILDLEN Rush12	96.27	100.50	69.62	63.81	56.06	62.70
SO BUILDLEN Rush12	69.55	75.23	98.67	92.65	83.82	72.44
SO BUILDLEN Rush12	58.86	45.72	55.29	68.14	79.24	89.11
SO BUILDLEN Rush12	96.27	100.50	69.62	63.81	56.06	62.70
SO BUILDLEN Rush12	69.55	75.23	98.67	92.65	83.82	72.44
SO BUILDLEN Rush12	58.86	45.72	55.29	68.14	79.24	89.11
SO XBADJ Rush12	19.30	3.72	-39.43	-46.66	-52.47	-61.55
SO XBADJ Rush12	-69.39	-76.06	-108.43	-118.27	-124.52	-126.99
SO XBADJ Rush12	-125.60	-122.61	-126.65	-128.87	-127.48	-123.40
SO XBADJ Rush12	-115.57	-104.22	-30.20	-17.16	-3.60	-1.15
SO XBADJ Rush12	-0.16	0.83	9.76	25.62	40.70	54.55
SO XBADJ Rush12	66.74	76.90	71.37	60.73	48.24	34.29
SO YBADJ Rush12	71.95	82.61	46.79	45.37	42.58	38.29
SO YBADJ Rush12	33.10	26.90	78.84	67.43	53.97	38.87
SO YBADJ Rush12	22.58	5.61	-11.59	-28.45	-44.45	-59.10
SO YBADJ Rush12	-71.95	-82.61	-46.79	-45.37	-42.58	-38.29
SO YBADJ Rush12	-33.10	-26.90	-78.84	-67.43	-53.97	-38.87
SO YBADJ Rush12	-22.58	-5.61	11.59	28.45	44.45	59.10

SO BUILDHGT RUSH3	81.99	81.99	81.99	81.99	81.99	81.99
SO BUILDHGT RUSH3	81.99	81.99	81.99	81.99	81.99	81.99
SO BUILDHGT RUSH3	81.99	81.99	81.99	81.99	81.99	81.99
SO BUILDHGT RUSH3	81.99	81.99	81.99	81.99	81.99	81.99
SO BUILDHGT RUSH3	81.99	81.99	81.99	81.99	81.99	81.99
SO BUILDHGT RUSH3	81.99	81.99	81.99	81.99	81.99	81.99
SO BUILDWID RUSH3	92.65	83.82	72.44	58.86	45.72	55.29
SO BUILDWID RUSH3	68.14	79.24	89.11	96.27	100.50	101.68
SO BUILDWID RUSH3	99.77	94.83	98.46	101.62	101.69	98.67
SO BUILDWID RUSH3	92.65	83.82	72.44	58.86	45.72	55.29
SO BUILDWID RUSH3	68.14	79.24	89.11	96.27	100.50	101.68
SO BUILDWID RUSH3	99.77	94.83	98.46	101.62	101.69	98.67
SO BUILDLEN RUSH3	96.27	100.50	101.68	99.77	94.83	98.46
SO BUILDLEN RUSH3	101.62	101.69	98.67	92.65	83.82	72.44
SO BUILDLEN RUSH3	58.86	45.72	55.29	68.14	79.24	89.11
SO BUILDLEN RUSH3	96.27	100.50	101.68	99.77	94.83	98.46
SO BUILDLEN RUSH3	101.62	101.69	98.67	92.65	83.82	72.44
SO BUILDLEN RUSH3	58.86	45.72	55.29	68.14	79.24	89.11
SO XBADJ RUSH3	-84.21	-90.10	-93.25	-93.57	-91.04	-91.54
SO XBADJ RUSH3	-90.53	-86.77	-80.37	-71.53	-60.52	-47.66
SO XBADJ RUSH3	-33.36	-20.27	-17.32	-15.86	-14.23	-13.35
SO XBADJ RUSH3	-12.06	-10.40	-8.43	-6.20	-3.79	-6.92

SO XBADJ	RUSH3	-11.09	-14.92	-18.30	-21.12	-23.30	-24.78
SO XBADJ	RUSH3	-25.50	-25.44	-37.97	-52.28	-65.01	-75.76
SO YBADJ	RUSH3	25.20	18.61	11.44	3.93	-2.59	-10.33
SO YBADJ	RUSH3	-18.21	-25.39	-31.21	-36.07	-39.85	-42.41
SO YBADJ	RUSH3	-43.68	-43.63	-42.31	-39.72	-35.92	-31.03
SO YBADJ	RUSH3	-25.20	-18.61	-11.44	-3.93	2.59	10.33
SO YBADJ	RUSH3	18.21	25.39	31.21	36.07	39.85	42.41
SO YBADJ	RUSH3	43.68	43.63	42.31	39.72	35.92	31.03

\*\*Interactive Sources

SO LOCATION RC4K09 POINT 733110.42 4229152.675 149.97  
 \*\*SO LOCATION RC6F19 POINT 733450.45 4229244.88 129.92  
 \*\*Updated St. Gobain/Ardagh to only include units with reported emissions in 2014  
 \*\*StGob ep40 is stack for units 2 and 3  
 SO LOCATION STGOB40 POINT 726819.998 4241850.691 163.38  
 SO LOCATION FWT2 POINT 725705.619 4241094.372 200.33  
 SO LOCATION FWT6 POINT 725705.619 4241094.372 200.33  
 SO LOCATION ACS1 POINT 724479.424 4236856.27 132.87  
 SO LOCATION ACS2 POINT 724479.424 4236856.27 132.87  
 SO LOCATION ACS3 POINT 724479.424 4236856.27 132.87  
 SO LOCATION ACS4 POINT 724479.424 4236856.27 132.87  
 SO LOCATION ACS5 POINT 724479.424 4236856.27 132.87  
 SO LOCATION ACS6 POINT 724479.424 4236856.27 132.87  
 SO LOCATION ACS9 POINT 724479.424 4236856.27 132.87  
 SO LOCATION ACS10 POINT 724479.424 4236856.27 132.87  
 SO LOCATION LHO248 POINT 756648.354 4210594.531 172  
 SO LOCATION LHO76 POINT 756648.354 4210594.531 172  
 SO LOCATION LHO77 POINT 756648.354 4210594.531 172  
 SO LOCATION HNTSMN1 POINT 737940.656 4267952.23 139  
 SO LOCATION HNTSMN2 POINT 737940.656 4267952.23 139  
 SO LOCATION HNTSMN3 POINT 737940.656 4267952.23 139  
 SO LOCATION HNTSMN8 POINT 737940.656 4267952.23 139  
 SO LOCATION HNTSMN13 POINT 737940.656 4267952.23 139  
 SO LOCATION HNTSMN20 POINT 737940.656 4267952.23 139  
 SO LOCATION FWI001 POINT 711291.066 4264547.493 141  
 SO LOCATION METRSW1 POINT 737818.81 4268121.76 142  
 SO LOCATION METRSW6 POINT 737818.81 4268121.76 142  
 SO LOCATION SAMC001 POINT 728489.698 4265428.043 193.15  
 SO LOCATION SAMC006 POINT 728489.698 4265428.043 193.15  
 SO LOCATION SIMPSON3 POINT 715996.195 4268469.87 130.43

\*\*Nearby Sources

SO LOCATION HOLC1 POINT 740330.799 4221466.101 125.85  
 SO LOCATION HOLC2 POINT 740330.79 4221466.101 126.45  
 SO LOCATION HOLC4 POINT 740330.79 4221840.42 129.1  
 SO LOCATION AB1 POINT 742779.50 4275725.49 148.31  
 SO LOCATION AB7B POINT 743027.943 4275660.608 140.54  
 SO LOCATION AB8B POINT 742759.07 4275690.82 148.43  
 SO LOCATION AB9B POINT 742759.07 4275690.82 148.43  
 SO LOCATION AB381 POINT 743027.943 4275660.608 140.54

\*\*IL Sources included at 2011 NEI emissions

SO LOCATION DMG1 POINT 775385.01 4233237.9 132.84  
 SO LOCATION DMG2 POINT 775385.01 4233237.9 132.84  
 SO LOCATION DMG5 POINT 775385.01 4233237.9 132.84  
 SO LOCATION DMG13 POINT 775385.01 4233237.9 132.84

SO LOCATION GECC4 POINT 749616 4287035 126.5  
SO LOCATION GECC6 POINT 749616 4287035 126.5  
SO LOCATION GECC7 POINT 749616 4287035 126.5  
SO LOCATION GECC11 POINT 749616 4287035 126.5  
SO LOCATION GECC12 POINT 749616 4287035 126.5  
SO LOCATION GECC13 POINT 749616 4287035 126.5  
SO LOCATION GECC14 POINT 749616 4287035 126.5  
SO LOCATION GECC15 POINT 749616 4287035 126.5  
SO LOCATION GECC16 POINT 749616 4287035 126.5  
SO LOCATION GECC17 POINT 749616 4287035 126.5  
SO LOCATION GECC18 POINT 749616 4287035 126.5  
SO LOCATION GECC19 POINT 749616 4287035 126.5  
SO LOCATION GECC20 POINT 749616 4287035 126.5  
SO LOCATION GECC21 POINT 749616 4287035 126.5  
SO LOCATION USS7 POINT 748063 4286987 128.6  
SO LOCATION USS8 POINT 748063 4286987 128.6  
SO LOCATION USS10 POINT 748063 4286987 128.6  
SO LOCATION USS11 POINT 748063 4286987 128.6  
SO LOCATION USS12 POINT 748063 4286987 128.6  
SO LOCATION USS13 POINT 748063 4286987 128.6  
SO LOCATION USS20 POINT 748063 4286987 128.6  
SO LOCATION USS47 POINT 748063 4286987 128.6  
SO LOCATION USS59 POINT 748063 4286987 128.6  
SO LOCATION USS64 POINT 748063 4286987 128.6  
SO LOCATION USS69 POINT 748063 4286987 128.6  
SO LOCATION USS71 POINT 748063 4286987 128.6  
SO LOCATION USS90 POINT 748063 4286987 128.6  
SO LOCATION USS92 POINT 748063 4286987 128.6  
SO LOCATION USS97 POINT 748063 4286987 128.6  
SO LOCATION USS126 POINT 748063 4286987 128.6  
SO LOCATION USS149 POINT 748063 4286987 128.6  
SO LOCATION USS150 POINT 748063 4286987 128.6  
SO LOCATION USS175 POINT 748063 4286987 128.6  
SO LOCATION USS177 POINT 748063 4286987 128.6  
SO LOCATION USS179 POINT 748063 4286987 128.6  
SO LOCATION USS181 POINT 748063 4286987 128.6  
SO LOCATION USS195 POINT 748063 4286987 128.6  
SO LOCATION USS218 POINT 748063 4286987 128.6  
SO LOCATION USS241 POINT 748063 4286987 128.6  
SO LOCATION USS246 POINT 748063 4286987 128.6  
SO LOCATION USS263 POINT 748063 4286987 128.6  
SO LOCATION USS265 POINT 748063 4286987 128.6

\*\*River Cement 099-0002

SO SRCPARAM RC4K09 19.052 124.968 476.93 16.44 5.7912

\*\*SO SRCPARAM RC6F19 0.000020155 38.1 369.0759 4.88696 2.0066

\*\*6-F-19 was only operated 0.38 hrs in 2014

\*\*099-0068 Ardagh Glass prev. as St. Gobain

\*\*Updated St. Gobain/Ardagh to only include units with reported emissions in 2013

\*\*StGob ep40 is stack for units 2 and 3

SO SRCPARAM STGOB40 3.927 47.88 595 12 1.78

\*\*099-0098

SO SRCPARAM FWT2 0.00096 14.02 383.15 11.23188 1.307926829

SO SRCPARAM FWT6 0.18415 3.96 660.9277778 11.176 0.253963415

\*\*099-0150

SO SRCPARAM ACS1 0.00293 8.53 1040.372222 5.70992 0.609756098

SO SRCPARAM ACS2 0.00242 5.48 1007.594444 7.8232 0.304878049  
SO SRCPARAM ACS3 0.00121 9.14 1059.816667 6.8326 0.609756098  
SO SRCPARAM ACS4 0.044 8.53 1040.372222 5.70992 0.609756098  
SO SRCPARAM ACS5 0.0372 8.53 1040.372222 5.70992 0.609756098  
SO SRCPARAM ACS6 0.0019 5.48 1003.705556 4.97332 0.304878049  
SO SRCPARAM ACS9 0.00076 9.14 1059.816667 6.8326 0.609756098  
SO SRCPARAM ACS10 0.00181 5.48 1007.594444 7.8232 0.304878049  
SO SRCPARAM LHO248 0.0003 164.59 394.26 19.66 1.015  
SO SRCPARAM LHO76 0.1742 71.628 505.37 19.66 1.015  
SO SRCPARAM LHO77 0.3372 71.628 505.37 15.33 2.591  
SO SRCPARAM HNTSMN1 0.0021 27.432 449.82 5.74 1.219  
SO SRCPARAM HNTSMN2 0.0047 27.432 555.37 7.62 1.219  
SO SRCPARAM HNTSMN3 0.2691 15.240 310.93 25.4 0.3048  
SO SRCPARAM HNTSMN8 0.0006 15.240 310.93 6.47 0.9144  
SO SRCPARAM HNTSMN13 0.0002 15.240 299.82 30.6 0.2530  
SO SRCPARAM HNTSMN20 0.0277 3.6580 366.48 30.48 0.1524  
SO SRCPARAM FWI001 0.212 9.144 394.26 17.97 1.219  
SO SRCPARAM METRSW1 0.0537 60.96 316.48 0.975 4.267  
SO SRCPARAM METRSW6 0.00026 13.41 435.93 7.36 0.762  
SO SRCPARAM SAMC001 0.00104 7.62 530.37 1.24 0.762  
SO SRCPARAM SAMC006 0.01083 7.62 530.37 1.24 0.762  
SO SRCPARAM SIMPSON3 0.5626 12.80 422.34 11.73 1.28

SO SRCPARAM HOLC1 16.359 158.4655 369.15 16.002 5.5992  
SO SRCPARAM HOLC2 7.624 158.4655 361.15 11.94816 2.3592  
SO SRCPARAM HOLC4 5.016 87.4776 373.15 16.61 2.11836  
\*\* using actual biogas, natural gas and coal emissions reported for 2014 AB boilers  
SO SRCPARAM AB1 49.1167 68.58 438.7055556 6.46684 3.048  
SO SRCPARAM AB7B 0.00087 30.48 449.8166667 18.62836 0.9144  
SO SRCPARAM AB8B 14.8771 68.58 449.8166667 5.62864 3.048  
SO SRCPARAM AB9B 20.5049 68.58 449.8166667 5.62864 3.048  
SO SRCPARAM AB381 0.088 6.096 283.15 21.336 0.3048

\*\*IL Sources at 2011 NEI values removed zero emitters  
SO SRCPARAM DMG1 210.8729216 184.404 426.4833333 26.79192 5.9436  
SO SRCPARAM DMG2 287.0515468 184.404 423.7055556 26.79192 5.9436  
SO SRCPARAM DMG5 0.00001438 84.1248 552.5944444 16.21536 1.0668  
SO SRCPARAM DMG13 50.4145544 184.404 360.9277778 26.79192 5.9436  
SO SRCPARAM GECC4 0.004314 7.9248 422.0388889 20.75688 1.3716  
SO SRCPARAM GECC6 1.254219574 25.908 1366.483333 22.76856 2.7432  
SO SRCPARAM GECC7 0.078630415 6.096 477.5944444 21.21408 1.524  
SO SRCPARAM GECC11 1.261775113 25.908 1366.483333 22.76856 2.7432  
SO SRCPARAM GECC12 1.254219574 25.908 1366.483333 22.76856 2.7432  
SO SRCPARAM GECC13 1.261775113 25.908 1366.483333 22.76856 2.7432  
SO SRCPARAM GECC14 1.261775113 25.908 1366.483333 22.76856 2.7432  
SO SRCPARAM GECC15 1.261775113 25.908 1366.483333 22.76856 2.7432  
SO SRCPARAM GECC16 0.079104092 6.096 477.5944444 21.21408 1.524  
SO SRCPARAM GECC17 0.079104092 6.096 477.5944444 21.21408 1.524  
SO SRCPARAM GECC18 0.078630415 6.096 477.5944444 21.21408 1.524  
SO SRCPARAM GECC19 0.079104092 6.096 477.5944444 21.21408 1.524  
SO SRCPARAM GECC20 0.079104092 6.096 477.5944444 21.21408 1.524  
SO SRCPARAM GECC21 26.5190208 60.96 406.4833333 11.82624 3.9624  
SO SRCPARAM USS7 1.3758784 66.1416 533.15 15.14856 2.1336  
SO SRCPARAM USS8 0.142362 18.288 409.8166667 9.26592 2.31648  
SO SRCPARAM USS10 6.337266 19.2024 338.7055556 19.47672 3.3528  
SO SRCPARAM USS11 5.697356 45.4152 518.7055556 11.94816 1.8288

SO SRCPARAM USS12 2.4796872 68.58 533.15 18.56232 2.7432  
SO SRCPARAM USS13 0.1860772 18.288 409.8166667 9.26592 2.31648  
SO SRCPARAM USS20 0.0609712 17.3736 616.4833333 4.63296 4.191  
SO SRCPARAM USS47 4.1857304 27.432 449.8166667 4.7244 2.182368  
SO SRCPARAM USS59 1.118764 46.3296 441.4833333 1.18872 2.1336  
SO SRCPARAM USS64 1.0212676 46.3296 441.4833333 10.63752 2.1336  
SO SRCPARAM USS69 0.395059439 5.4864 314.8166667 25.96896 1.2192  
SO SRCPARAM USS71 0.9896316 76.2 529.2611111 4.99872 2.7432  
SO SRCPARAM USS90 0.414731567 5.4864 326.4833333 25.96896 1.2192  
SO SRCPARAM USS92 1.0390988 76.2 475.3722222 4.96824 2.7432  
SO SRCPARAM USS97 0.490358 32.004 408.7055556 7.19328 2.19456  
SO SRCPARAM USS126 0.3169352 3.6576 428.15 9.32688 1.95072  
SO SRCPARAM USS149 0.0025884 60.96 455.3722222 10.5156 1.34112  
SO SRCPARAM USS150 0.2303676 19.2024 323.7055556 13.13688 2.1336  
SO SRCPARAM USS175 0.044578 17.3736 616.4833333 4.63296 4.191  
SO SRCPARAM USS177 0.0511928 44.5008 644.2611111 9.81456 3.834384  
SO SRCPARAM USS179 0.026562161 53.0352 376.4833333 6.76656 2.10312  
SO SRCPARAM USS181 0.027884833 53.0352 376.4833333 6.76656 2.10312  
SO SRCPARAM USS195 0.0831164 17.3736 616.4833333 4.63296 4.191  
SO SRCPARAM USS218 0.0046016 16.1544 421.4833333 10.30224 0.9144  
SO SRCPARAM USS241 5.1443012 49.0728 449.8166667 15.97152 5.4864  
SO SRCPARAM USS246 0.002876 11.8872 413.15 7.07136 0.618744  
SO SRCPARAM USS263 3.5725672 41.7576 500.9277778 18.95856 1.8288  
SO SRCPARAM USS265 5.697356 36.576 533.15 26.76144 2.1336

SO BACKGRND ANNUAL 9.0  
BACKUNIT PPB

SO SRCGROUP Lab LABADIE1-LABADIE5  
SO SRCGROUP Meramec MER1-MER62  
SO SRCGROUP Rush Rush12 RUSH3  
SO SRCGROUP AB AB1-AB381  
SO SRCGROUP STGO STGOB40  
SO SRCGROUP LHO LHO248 LHO76 LHO77  
SO SRCGROUP HNTSMN HNTSMN1-HNTSMN20  
SO SRCGROUP FWI FWI001  
SO SRCGROUP METRSW METRSW1 METRSW6  
SO SRCGROUP SAMC SAMC001 SAMC006  
SO SRCGROUP SIMPSON SIMPSON3  
SO SRCGROUP DMG DMG1-DMG13  
SO SRCGROUP GECC GECC4-GECC21  
SO SRCGROUP USS USS7-USS265  
SO SRCGROUP FWT FWT2 FWT6  
SO SRCGROUP ACS ACS1-ACS10  
SO SRCGROUP RC RC4K09  
SO SRCGROUP HOL HOLC1-HOLC4  
SO SRCGROUP ALL BACKGROUND

SO FINISHED

RE STARTING

\*\*NAA Grid-100m Spacing Grid 1 of 4 each with ~10,000 receptors  
\*\* AERMAP - VERSION 11103 12/12/14  
\*\* 11:11:34  
\*\* JEFFERSON COUNTY NAA GRID 1  
\*\*

\*\* A total of 13 NED files were used  
\*\* A total of 9999 receptors were processed  
\*\* DOMAINXY 680000 4200000 15 780000 4300000 15  
\*\* ANCHORXY 680000 4200000 680000 4200000 15 4  
\*\* Terrain heights were extracted by default

RE ELEVUNIT METERS

**\*\*RECEPTOR GRID NOT INCLUDED DUE TO SIZE**

RE FINISHED

ME STARTING

ME SURFFILE .\KCPSKILX13-15.sfc

ME PROFFILE .\KCPSKILX13-15.pfl

ME SURFDATA 03960 2013 Downtown\_STL,MO

ME UAIRDATA 04833 2013 Lincoln, Ill

ME PROFBASE 126 Meters

ME FINISHED

OU STARTING

OU RECTABLE ALLAVE 4-10

OU SUMMFILE Jeff-Co-13-15-CEMS-VP-G1.SUM

OU PLOTFILE 1 ALL 4 Jeff-Co-13-15-CEMS-VP-G1.PLT

OU MAXDCONT All 4 THRESH 196.5 Jeff-Co-13-15-CEMS-VP-G1.DAT

OU FINISHED

## Excerpt of AERMOD output file with result highlighted for Grid 1

GROUP ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) OF TYPE GRID-ID
ALL	1ST HIGHEST VALUE IS	114.82387 AT ( 736643.00, 4226135.00, 200.90, 237.87, 0.00) DC
	2ND HIGHEST VALUE IS	114.36270 AT ( 736543.00, 4226235.00, 188.06, 245.19, 0.00) DC
	3RD HIGHEST VALUE IS	114.35716 AT ( 736743.00, 4226135.00, 195.09, 237.87, 0.00) DC
	4TH HIGHEST VALUE IS	114.15655 AT ( 736443.00, 4226335.00, 181.43, 251.25, 0.00) DC
	5TH HIGHEST VALUE IS	114.04765 AT ( 736643.00, 4226235.00, 182.55, 245.16, 0.00) DC
	6TH HIGHEST VALUE IS	113.98845 AT ( 736743.00, 4226235.00, 180.59, 237.87, 0.00) DC
	7TH HIGHEST VALUE IS	113.78809 AT ( 736543.00, 4226135.00, 216.26, 237.87, 0.00) DC
	8TH HIGHEST VALUE IS	113.71973 AT ( 737343.00, 4226735.00, 117.55, 249.76, 0.00) DC
	9TH HIGHEST VALUE IS	113.48233 AT ( 736343.00, 4226435.00, 191.40, 251.25, 0.00) DC
	10TH HIGHEST VALUE IS	113.45231 AT ( 736843.00, 4226135.00, 193.50, 195.41, 0.00) DC

## Excerpt of AERMOD output file with result highlighted for Grid 2

GROUP ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) OF TYPE GRID-ID
ALL	1ST HIGHEST VALUE IS	114.29421 AT ( 736743.00, 4227835.00, 118.29, 118.29, 0.00) DC
	2ND HIGHEST VALUE IS	114.21016 AT ( 736743.00, 4227735.00, 118.72, 245.16, 0.00) DC
	3RD HIGHEST VALUE IS	114.03438 AT ( 736743.00, 4227935.00, 117.72, 117.72, 0.00) DC
	4TH HIGHEST VALUE IS	113.65753 AT ( 736743.00, 4228035.00, 118.11, 120.84, 0.00) DC
	5TH HIGHEST VALUE IS	113.40668 AT ( 736643.00, 4227935.00, 118.38, 118.38, 0.00) DC
	6TH HIGHEST VALUE IS	113.39359 AT ( 736643.00, 4228035.00, 118.21, 118.21, 0.00) DC
	7TH HIGHEST VALUE IS	113.37128 AT ( 736843.00, 4227735.00, 117.66, 244.50, 0.00) DC
	8TH HIGHEST VALUE IS	113.23949 AT ( 736643.00, 4227835.00, 118.77, 213.32, 0.00) DC
	9TH HIGHEST VALUE IS	113.22929 AT ( 736643.00, 4228135.00, 118.33, 121.00, 0.00) DC
	10TH HIGHEST VALUE IS	113.21401 AT ( 736843.00, 4227835.00, 117.33, 120.83, 0.00) DC

## Excerpt of AERMOD output file with result highlighted for Grid 3

GROUP ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) OF TYPE GRID-ID
ALL	111.68852	AT ( 725743.00, 4241135.00, 200.30, 214.56, 0.00) DC
	1ST HIGHEST VALUE IS	
	2ND HIGHEST VALUE IS	89.63738 AT ( 727843.00, 4242235.00, 139.57, 178.06, 0.00) DC
	3RD HIGHEST VALUE IS	89.58972 AT ( 727943.00, 4242235.00, 139.17, 179.86, 0.00) DC
	4TH HIGHEST VALUE IS	89.36668 AT ( 727743.00, 4242235.00, 143.27, 143.27, 0.00) DC
	5TH HIGHEST VALUE IS	89.34116 AT ( 728043.00, 4242235.00, 136.43, 181.06, 0.00) DC
	6TH HIGHEST VALUE IS	89.31063 AT ( 727643.00, 4242235.00, 143.56, 166.36, 0.00) DC
	7TH HIGHEST VALUE IS	89.12119 AT ( 727343.00, 4242235.00, 159.11, 169.08, 0.00) DC
	8TH HIGHEST VALUE IS	89.10398 AT ( 727443.00, 4242235.00, 152.56, 166.18, 0.00) DC
	9TH HIGHEST VALUE IS	89.03713 AT ( 728143.00, 4242235.00, 134.13, 180.72, 0.00) DC
	10TH HIGHEST VALUE IS	89.00681 AT ( 727743.00, 4242135.00, 146.59, 165.74, 0.00) DC

## Excerpt of AERMOD output file with result highlighted for Grid 4

GROUP ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) OF TYPE GRID-ID
ALL	113.36415	AT ( 731043.00, 4250835.00, 121.37, 121.37, 0.00) DC
	1ST HIGHEST VALUE IS	
	2ND HIGHEST VALUE IS	112.54747 AT ( 731083.40, 4251006.60, 121.51, 121.51, 0.00) DC
	3RD HIGHEST VALUE IS	112.26760 AT ( 731043.00, 4250935.00, 121.44, 121.44, 0.00) DC
	4TH HIGHEST VALUE IS	112.17371 AT ( 731043.00, 4250735.00, 121.85, 121.85, 0.00) DC
	5TH HIGHEST VALUE IS	112.11861 AT ( 731143.00, 4250935.00, 121.91, 121.91, 0.00) DC
	6TH HIGHEST VALUE IS	111.71409 AT ( 730943.00, 4250635.00, 120.00, 120.00, 0.00) DC
	7TH HIGHEST VALUE IS	111.02498 AT ( 730943.00, 4250535.00, 120.61, 120.61, 0.00) DC
	8TH HIGHEST VALUE IS	110.96785 AT ( 730943.00, 4250735.00, 120.09, 120.09, 0.00) DC
	9TH HIGHEST VALUE IS	110.70240 AT ( 731183.40, 4251006.70, 116.73, 121.92, 0.00) DC
	10TH HIGHEST VALUE IS	110.61241 AT ( 730643.00, 4250135.00, 126.69, 131.40, 0.00) DC



# Meteorological File Excerpts

(2013-2015 KCPS/KILX formatted surface and profile files, first 24 hours of each file)

## Surface (.sfc)

38.56N	90.14W	UA_ID:	4833	SF_ID:	03960	OS_ID:	VERSION:	16216	THRESH_1MIN =	0.50 m/s;	ADJ_U*	CCVR_Sub	TEMP_Sub													
13	1	1	1	1	-56.5	0.547	-9.000	-9.000	-999.	972.	329.6	0.0690	0.79	1.00	6.96	1.0	10.0	272.5	2.0	0	0.00	92.	1004.	10	ADJ-SFC	NoSubs
13	1	1	1	2	-32.9	0.318	-9.000	-9.000	-999.	481.	111.1	0.0290	0.79	1.00	4.86	358.0	10.0	271.4	2.0	0	0.00	84.	1005.	10	ADJ-SFC	NoSubs
13	1	1	1	3	-29.5	0.284	-9.000	-9.000	-999.	365.	88.6	0.0290	0.79	1.00	4.36	354.0	10.0	270.4	2.0	0	0.00	81.	1006.	10	ADJ-SFC	NoSubs
13	1	1	1	4	-32.9	0.316	-9.000	-9.000	-999.	426.	109.6	0.0290	0.79	1.00	4.83	355.0	10.0	269.9	2.0	0	0.00	81.	1006.	10	ADJ-A1	NoSubs
13	1	1	1	5	-31.2	0.299	-9.000	-9.000	-999.	392.	98.1	0.0290	0.79	1.00	4.58	356.0	10.0	269.9	2.0	0	0.00	81.	1006.	10	ADJ-A1	NoSubs
13	1	1	1	6	-32.8	0.314	-9.000	-9.000	-999.	421.	108.2	0.0290	0.79	1.00	4.80	351.0	10.0	268.8	2.0	0	0.00	84.	1006.	10	ADJ-A1	NoSubs
13	1	1	1	7	-36.2	0.346	-9.000	-9.000	-999.	487.	131.4	0.0690	0.79	1.00	4.48	1.0	10.0	268.8	2.0	0	0.00	77.	1006.	10	ADJ-A1	NoSubs
13	1	1	1	8	-35.2	0.336	-9.000	-9.000	-999.	468.	124.2	0.0690	0.79	0.70	4.36	2.0	10.0	268.1	2.0	0	0.00	77.	1008.	10	ADJ-A1	NoSubs
13	1	1	1	9	-15.4	0.329	-9.000	-9.000	-999.	454.	209.2	0.0290	0.79	0.38	4.95	351.0	10.0	268.1	2.0	0	0.00	77.	1009.	10	ADJ-A1	NoSubs
13	1	1	1	10	20.1	0.398	0.618	0.013	421.	603.	-282.0	0.0290	0.79	0.26	5.70	347.0	10.0	268.1	2.0	0	0.00	77.	1008.	9	ADJ-A1	NoSubs
13	1	1	1	11	69.8	0.421	0.984	0.009	492.	656.	-96.4	0.0290	0.79	0.22	5.85	349.0	10.0	268.1	2.0	0	0.00	77.	1009.	0	ADJ-A1	NoSubs
13	1	1	1	12	74.1	0.338	1.020	0.017	515.	476.	-46.8	0.0290	0.79	0.21	4.53	348.0	10.0	269.2	2.0	0	0.00	71.	1009.	7	ADJ-A1	NoSubs
13	1	1	1	13	17.6	0.271	0.634	0.017	521.	342.	-102.4	0.0290	0.79	0.21	3.78	354.0	10.0	269.2	2.0	0	0.00	71.	1008.	10	ADJ-A1	NoSubs
13	1	1	1	14	14.0	0.268	0.590	0.017	525.	332.	-122.8	0.0290	0.79	0.22	3.75	353.0	10.0	269.2	2.0	0	0.00	71.	1008.	10	ADJ-A1	NoSubs
13	1	1	1	15	6.9	0.262	0.466	0.017	527.	322.	-235.2	0.0290	0.79	0.26	3.74	355.0	10.0	269.2	2.0	0	0.00	68.	1008.	10	ADJ-A1	Sub_CC
13	1	1	1	16	-7.9	0.240	-9.000	-9.000	-999.	283.	157.8	0.0290	0.79	0.36	3.63	354.0	10.0	269.2	2.0	0	0.00	65.	1008.	10	ADJ-A1	NoSubs
13	1	1	1	17	-23.9	0.235	-9.000	-9.000	-999.	273.	60.5	0.0290	0.79	0.64	3.63	346.0	10.0	269.2	2.0	0	0.00	62.	1009.	10	ADJ-A1	NoSubs
13	1	1	1	18	-19.8	0.188	-9.000	-9.000	-999.	197.	39.1	0.0290	0.79	1.00	2.95	350.0	10.0	268.1	2.0	0	0.00	64.	1009.	3	ADJ-A1	NoSubs
13	1	1	1	19	-18.8	0.179	-9.000	-9.000	-999.	182.	35.2	0.0290	0.79	1.00	2.81	356.0	10.0	268.1	2.0	0	0.00	62.	1009.	0	ADJ-A1	NoSubs
13	1	1	1	20	-20.6	0.195	-9.000	-9.000	-999.	206.	41.7	0.0690	0.79	1.00	2.59	3.0	10.0	267.0	2.0	0	0.00	64.	1010.	0	ADJ-A1	NoSubs
13	1	1	1	21	-23.7	0.224	-9.000	-9.000	-999.	255.	55.3	0.0690	0.79	1.00	2.96	2.0	10.0	267.0	2.0	0	0.00	64.	1009.	0	ADJ-A1	NoSubs
13	1	1	1	22	-7.6	0.112	-9.000	-9.000	-999.	97.	16.6	0.0290	0.79	1.00	1.82	350.0	10.0	269.2	2.0	0	0.00	57.	1010.	0	ADJ-A1	NoSubs
13	1	1	1	23	-18.6	0.178	-9.000	-9.000	-999.	180.	34.7	0.0290	0.79	1.00	2.79	353.0	10.0	269.2	2.0	0	0.00	57.	1010.	0	ADJ-A1	NoSubs
13	1	1	1	24	-10.3	0.131	-9.000	-9.000	-999.	114.	19.4	0.0290	0.79	1.00	2.10	357.0	10.0	265.9	2.0	0	0.00	70.	1010.	0	ADJ-A1	NoSubs

## Profile (.pfl)

13	1	1	1	10.0	1	1.0	6.96	-0.60	99.00	99.00
13	1	1	2	10.0	1	358.0	4.86	-1.70	99.00	99.00
13	1	1	3	10.0	1	354.0	4.36	-2.80	99.00	99.00
13	1	1	4	10.0	1	355.0	4.83	-3.30	99.00	99.00
13	1	1	5	10.0	1	356.0	4.58	-3.30	99.00	99.00
13	1	1	6	10.0	1	351.0	4.80	-4.40	99.00	99.00
13	1	1	7	10.0	1	1.0	4.48	-4.40	99.00	99.00
13	1	1	8	10.0	1	2.0	4.36	-5.00	99.00	99.00
13	1	1	9	10.0	1	351.0	4.95	-5.00	99.00	99.00
13	1	1	10	10.0	1	347.0	5.70	-5.00	99.00	99.00
13	1	1	11	10.0	1	349.0	5.85	-5.00	99.00	99.00
13	1	1	12	10.0	1	348.0	4.53	-3.90	99.00	99.00
13	1	1	13	10.0	1	354.0	3.78	-3.90	99.00	99.00
13	1	1	14	10.0	1	353.0	3.75	-3.90	99.00	99.00
13	1	1	15	10.0	1	355.0	3.74	-3.90	99.00	99.00
13	1	1	16	10.0	1	354.0	3.63	-3.90	99.00	99.00
13	1	1	17	10.0	1	346.0	3.63	-3.90	99.00	99.00
13	1	1	18	10.0	1	350.0	2.95	-5.00	99.00	99.00
13	1	1	19	10.0	1	356.0	2.81	-5.00	99.00	99.00
13	1	1	20	10.0	1	3.0	2.59	-6.10	99.00	99.00
13	1	1	21	10.0	1	2.0	2.96	-6.10	99.00	99.00
13	1	1	22	10.0	1	350.0	1.82	-3.90	99.00	99.00
13	1	1	23	10.0	1	353.0	2.79	-3.90	99.00	99.00
13	1	1	24	10.0	1	357.0	2.10	-7.20	99.00	99.00