

Scenario: H_R1

Emission Rate Calculations for Modeling

		before RC		after RC		before RC		After RC-CFM only								Total	
Source		B01	B24	B25	B11current	B11	B38current	B38	B08	B10	B32	B33	B34	B35	C79	C80	Total
Type		Furnace	Furnace	Furnace	FH	FH	FH	FH	RE1	RE2	RE2	RE1	RE2	RE2	RE1	RE1	
Current Base Case Emission Rate (g/s)		3.55E-05			1.51E-04		3.32E-05		2.05E-06	2.39E-06	2.39E-06		2.39E-06	2.39E-06	2.04E-06	2.04E-06	2.35E-04
Uncertainty = 1.15		2016 Base RC Emission Rate (g/s) with Uncertainty Factor applied		2.04E-05	2.04E-05	8.66E-05		3.82E-05		1.37E-06	1.37E-06	2.36E-06	1.37E-06	1.37E-06	2.34E-06	2.34E-06	1.78E-04
Combination ID	Option Description	B01	B24	B25	B11	B11	B38current	B38	B08	B10	B32	B33	B34	B35	C79	C80	Total
H	Description of Reduction Component		DEP/WEP/DC	DEP/WEP/DC				DEP/WEP/DC + LSC+ partial prototype									
	Individual Reduction Description		1,2 or 3	1,2 or 3				(1,2, or 3)+11+14		Result of 14	Result of 14		Result of 14	Result of 14			
	Reduction Efficiency 1		95%	95%				95%	0%	50%	50%	0%	50%	50%	0%	0%	
	Reduction Efficiency 2							10%									
	Reduction Efficiency 3							50%									
	Comments	Source ER (g/s)	Source ER (g/s)	Source ER (g/s)	Source ER (g/s)	Source ER (g/s)	Source ER (g/s)	Source ER (g/s)	Source ER (g/s)	Source ER (g/s)	Source ER (g/s)	Source ER (g/s)	Source ER (g/s)	Source ER (g/s)	Source ER (g/s)	Source ER (g/s)	Source ER (g/s)	TotalER (g/s)
	RC+(1,2 or 3)+11+14	1.02E-06	1.02E-06				3.86E-06		6.87E-07	6.87E-07	2.36E-06	6.87E-07	6.87E-07	2.34E-06	2.34E-06	1.57E-05	

Explanation of calculation for B38 : The 50% reduction efficiency for control option #11 and #14 only applies to the B11 reconfigured emission rate, not the B38 current emission rate since these technologies already exist on that portion of (CFM) forehearth.

Annual Hexavalent Chromium Results
 Technical Benchmarking Option H - 5 year data set

Run (tab) Name:	Ann_Opt_H_R1_Metry1	Ann_Opt_H_R1_Metry2	Ann_Opt_H_R1_Metry3	Ann_Opt_H_R1_Metry4	Ann_Opt_H_R1_Metry5	
Run Description:	Option H_R1, Reg 419 grid, Site Specific Met (2009)	Option H_R1, Reg 419 grid, Site Specific Met (2010)	Option H_R1, Reg 419 grid, Site Specific Met (2011)	Option H_R1, Reg 419 grid, Site Specific Met (2012)	Option H_R1, Reg 419 grid, Site Specific Met (2013)	MAX
Result Units:		ng/m3	ng/m3	ng/m3	ng/m3	ng/m3
ALL	1.14159	1.33256	1.09137	1.17591	1.13083	1.33256
B10	0.03908	0.04012	0.04024	0.04071	0.0402	0.04071
B32	0.07978	0.0847	0.07868	0.08102	0.08023	0.0847
B34	0.05933	0.06748	0.0576	0.06099	0.05966	0.06748
B35	0.05924	0.06836	0.05762	0.06181	0.05927	0.06836
C79	0.08277	0.10893	0.07708	0.08782	0.08021	0.10893
C80	0.07892	0.1091	0.07271	0.08492	0.07221	0.1091
B38	0.41437	0.46967	0.39305	0.42386	0.41052	0.46967
B24	0.04733	0.05293	0.04593	0.04748	0.0491	0.05293
B25	0.0429	0.0494	0.04094	0.04253	0.04298	0.0494
B33	0.24981	0.29562	0.23972	0.25766	0.24583	0.29562
FURNACE	0.09023	0.10233	0.08688	0.09	0.09208	0.10233
FOREHEAR	0.41437	0.46967	0.39305	0.42386	0.41052	0.46967
GENEXHTS	0.63699	0.76057	0.61145	0.66205	0.62822	0.76057

Run Description:	Option H_R1, Reg 419 grid, Site Specific Met (2009)	Option H_R1, Reg 419 grid, Site Specific Met (2010)	Option H_R1, Reg 419 grid, Site Specific Met (2011)	Option H_R1, Reg 419 grid, Site Specific Met (2012)	Option H_R1, Reg 419 grid, Site Specific Met (2013)	MAX
Result Units:	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
ALL	0.00114159	0.00133256	0.00109137	0.00117591	0.00113083	0.001333
B10	0.00003908	0.00004012	0.00004024	0.00004071	0.0000402	4.07E-05
B32	0.00007978	0.0000847	0.00007868	0.00008102	0.00008023	8.47E-05
B34	0.00005933	0.00006748	0.0000576	0.00006099	0.00005966	6.75E-05
B35	0.00005924	0.00006836	0.00005762	0.00006181	0.00005927	6.84E-05
C79	0.00008277	0.00010893	0.00007708	0.00008782	0.00008021	0.000109
C80	0.00007892	0.0001091	0.00007271	0.00008492	0.00007221	0.000109
B38	0.00041437	0.00046967	0.00039305	0.00042386	0.00041052	0.00047
B24	0.00004733	0.00005293	0.00004593	0.00004748	0.0000491	5.29E-05
B25	0.0000429	0.0000494	0.00004094	0.00004253	0.00004298	4.94E-05
B33	0.00024981	0.00029562	0.00023972	0.00025766	0.00024583	0.000296
FURNACE	0.00009023	0.00010233	0.00008688	0.00009	0.00009208	0.000102
FOREHEAR	0.00041437	0.00046967	0.00039305	0.00042386	0.00041052	0.00047
GENEXHTS	0.00063699	0.00076057	0.00061145	0.00066205	0.00062822	0.000761

Source Pathway - Source Inputs

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Point Sources

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Gas Exit Temp. [K]	Gas Exit Velocity [m/s]	Stack Inside Diameter [m]
POINT	B10	562030.25	4821525.28	312.00	14.45	6.87E-7	321.90	12.10	1.24
		General Exhaust Above T107B F/H							
POINT	B32	562047.16	4821528.02	312.00	14.48	6.87E-7	321.90	19.19	1.24
		General Exhaust Above T106							
POINT	B34	562039.70	4821535.65	312.00	14.48	6.87E-7	321.90	19.19	1.24
		General Exhaust Above T107A F/H							
POINT	B35	562047.03	4821543.82	312.00	14.48	6.87E-7	321.90	19.19	1.24
		General Exhaust Above CFM Main Channel							
POINT	C79	562023.15	4821559.58	312.00	11.64	2.34E-6	310.80	9.59	1.41
		General Exhaust West CFM F/H							
POINT	C80	562028.25	4821564.97	312.00	11.64	2.34E-6	310.80	9.59	1.41
		General Exhaust East CFM F/H							
POINT	B38	562043.48	4821544.79	312.00	16.46	3.86E-6	379.00	5.43	0.75
		105 Forehearth Stack							
POINT	B33	562055.21	4821536.35	312.00	14.48	2.36E-6	321.90	12.59	1.22
		Gen Exhaust Above T105							
POINT	B24	562052.59	4821531.65	312.00	27.77	1.02E-6	597.00	5.89	0.53
		105 Furnace Stack							
POINT	B25	562057.67	4821536.90	312.00	27.77	1.02E-6	597.00	5.89	0.53
		105 Furnace Stack							

Volume Sources

No Volume Sources Specified

Area Sources

No Area Sources Specified

Source Pathway - Source Inputs

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Open Pit Sources

No Open Pit Sources Specified

Circular Area Sources

No Circular Area Sources Specified

Polygon Area Sources

No Polygon Area Sources Specified

Flare Sources

No Flare Sources Specified

Line Sources

No Line Sources Specified

Line Volume Sources

No Line Volume Sources Specified

Line Area Sources

No Line Area Sources Specified

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09 01 01	1 06	-3.2	0.067	-9.000	-9.000	-999.	41.	8.1	0.50	0.55	1.00	1.00	222.	10.0	254.8	2.0
09 01 01	1 07	-9.5	0.113	-9.000	-9.000	-999.	91.	13.2	0.70	0.55	1.00	1.50	145.	10.0	255.9	2.0
09 01 01	1 08	-8.5	0.109	-9.000	-9.000	-999.	86.	13.0	0.63	0.50	1.00	1.50	243.	10.0	257.5	2.0
09 01 01	1 09	-6.0	0.107	-9.000	-9.000	-999.	84.	17.8	0.61	0.95	0.76	1.50	127.	10.0	258.1	2.0
09 01 01	1 10	-1.6	0.057	-9.000	-9.000	-999.	33.	9.9	0.30	0.95	0.66	1.00	121.	10.0	263.8	2.0
09 01 01	1 11	13.2	0.424	0.253	0.009	42.	662.	-499.8	0.50	0.55	0.54	3.10	224.	10.0	264.2	2.0
09 01 01	1 12	19.8	0.428	0.402	0.008	114.	671.	-342.9	0.50	0.55	0.51	3.10	196.	10.0	265.4	2.0
09 01 01	1 13	22.9	0.367	0.559	0.011	265.	536.	-187.8	0.50	0.55	0.51	2.60	203.	10.0	265.4	2.0
09 01 01	1 14	2.1	0.468	0.256	0.007	275.	768.	-4237.3	0.70	0.55	0.48	3.10	179.	10.0	265.9	2.0
09 01 01	1 15	-4.6	0.538	-9.000	-9.000	-999.	946.	2954.8	0.70	0.55	0.51	3.60	162.	10.0	265.4	2.0
09 01 01	1 16	-20.2	0.526	-9.000	-9.000	-999.	915.	625.4	0.70	0.55	0.59	3.60	164.	10.0	265.9	2.0
09 01 01	1 17	-33.2	0.401	-9.000	-9.000	-999.	622.	168.7	0.61	0.95	0.82	3.10	141.	10.0	265.9	2.0
09 01 01	1 18	-28.3	0.491	-9.000	-9.000	-999.	824.	362.7	0.61	0.95	1.00	3.60	137.	10.0	265.9	2.0
09 01 01	1 19	-53.3	0.464	-9.000	-9.000	-999.	760.	163.0	0.61	0.95	1.00	3.60	134.	10.0	265.9	2.0
09 01 01	1 20	-60.2	0.545	-9.000	-9.000	-999.	964.	233.5	0.61	0.95	1.00	4.10	127.	10.0	265.4	2.0
09 01 01	1 21	-44.8	0.474	-9.000	-9.000	-999.	788.	206.2	0.61	0.95	1.00	3.60	130.	10.0	265.9	2.0
09 01 01	1 22	-61.4	0.544	-9.000	-9.000	-999.	961.	227.6	0.61	0.95	1.00	4.10	132.	10.0	266.4	2.0
09 01 01	1 23	-53.4	0.464	-9.000	-9.000	-999.	764.	162.3	0.61	0.95	1.00	3.60	140.	10.0	266.4	2.0
09 01 01	1 24	-21.2	0.225	-9.000	-9.000	-999.	318.	46.9	0.70	0.55	1.00	2.10	160.	10.0	267.0	2.0

First hour of profile data
 YR MO DY HR HEIGHT F WDIR WSPD AMB_TMP sigmaA sigmaW sigmaV
 09 01 01 01 10.0 1 291. 1.50 258.2 99.0 -99.00 -99.00

F indicates top of profile (=1) or below (=0)
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**MODELOPTS: NonDEFAULT CONC ELEV FLGPOL BETA
 *** THE SUMMARY OF MAXIMUM ANNUAL RESULTS AVERAGED OVER 1 YEARS ***
 ** CONC OF HCR IN NANOGRAMS/M3 **

GROUP ID	AVERAGE CONC				RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)				OF TYPE	NETWORK GRID-ID
FURNACE	1ST HIGHEST VALUE IS	0.10233	AT (	562063.97,	4821525.92,	311.00,	311.00,	0.00)	DC
	2ND HIGHEST VALUE IS	0.10233	AT (	562063.97,	4821525.92,	311.00,	311.00,	0.00)	DC
	3RD HIGHEST VALUE IS	0.08622	AT (	562070.91,	4821533.11,	311.00,	311.00,	0.00)	DC
	4TH HIGHEST VALUE IS	0.08622	AT (	562070.91,	4821533.11,	311.00,	311.00,	0.00)	DC
	5TH HIGHEST VALUE IS	0.08252	AT (	562057.04,	4821518.74,	311.00,	311.00,	0.00)	DC
	6TH HIGHEST VALUE IS	0.08252	AT (	562057.04,	4821518.74,	311.00,	311.00,	0.00)	DC
	7TH HIGHEST VALUE IS	0.07194	AT (	562065.76,	4821512.01,	311.00,	311.00,	0.00)	DC
	8TH HIGHEST VALUE IS	0.06620	AT (	562085.76,	4821512.01,	311.00,	311.00,	0.00)	DC
	9TH HIGHEST VALUE IS	0.06392	AT (	562085.76,	4821532.01,	311.00,	311.00,	0.00)	DC
	10TH HIGHEST VALUE IS	0.04896	AT (	562050.10,	4821511.55,	311.00,	311.00,	0.00)	DC
FOREHEAR	1ST HIGHEST VALUE IS	0.46967	AT (	562063.97,	4821525.92,	311.00,	311.00,	0.00)	DC
	2ND HIGHEST VALUE IS	0.46967	AT (	562063.97,	4821525.92,	311.00,	311.00,	0.00)	DC
	3RD HIGHEST VALUE IS	0.40347	AT (	562070.91,	4821533.11,	311.00,	311.00,	0.00)	DC
	4TH HIGHEST VALUE IS	0.40347	AT (562070.91,	4821533.11,	311.00,	311.00,	0.00)	DC	
	5TH HIGHEST VALUE IS	0.35431	AT (562057.04,	4821518.74,	311.00,	311.00,	0.00)	DC	

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	6TH HIGHEST VALUE IS	0.35431 AT (562057.04,	4821518.74,	311.00,	311.00,	0.00)	DC
	7TH HIGHEST VALUE IS	0.32344 AT (562085.76,	4821512.01,	311.00,	311.00,	0.00)	DC
	8TH HIGHEST VALUE IS	0.31606 AT (	562065.76,	4821512.01,	311.00,	311.00,	0.00)	DC
	9TH HIGHEST VALUE IS	0.28446 AT (	562085.76,	4821532.01,	311.00,	311.00,	0.00)	DC
	10TH HIGHEST VALUE IS	0.23396 AT (	562077.84,	4821540.29,	311.01,	311.01,	0.00)	DC
GENEXHTS	1ST HIGHEST VALUE IS	0.76057 AT (	562063.97,	4821525.92,	311.00,	311.00,	0.00)	DC
	2ND HIGHEST VALUE IS	0.76057 AT (	562063.97,	4821525.92,	311.00,	311.00,	0.00)	DC
	3RD HIGHEST VALUE IS	0.65066 AT (	562057.04,	4821518.74,	311.00,	311.00,	0.00)	DC
	4TH HIGHEST VALUE IS	0.65066 AT (	562057.04,	4821518.74,	311.00,	311.00,	0.00)	DC
	5TH HIGHEST VALUE IS	0.60741 AT (	562070.91,	4821533.11,	311.00,	311.00,	0.00)	DC
	6TH HIGHEST VALUE IS	0.60741 AT (	562070.91,	4821533.11,	311.00,	311.00,	0.00)	DC
	7TH HIGHEST VALUE IS	0.54638 AT (	562065.76,	4821512.01,	311.00,	311.00,	0.00)	DC
	8TH HIGHEST VALUE IS	0.51083 AT (	562085.76,	4821512.01,	311.00,	311.00,	0.00)	DC
	9TH HIGHEST VALUE IS	0.44607 AT (	562050.10,	4821511.55,	311.00,	311.00,	0.00)	DC
	10TH HIGHEST VALUE IS	0.44607 AT (	562050.10,	4821511.55,	311.00,	311.00,	0.00)	DC
B10	1ST HIGHEST VALUE IS	0.04012 AT (	562050.10,	4821511.55,	311.00,	311.00,	0.00)	DC
	2ND HIGHEST VALUE IS	0.04012 AT (	562050.10,	4821511.55,	311.00,	311.00,	0.00)	DC
	3RD HIGHEST VALUE IS	0.02875 AT (	562076.93,	4821485.66,	310.19,	310.19,	0.00)	DC
	4TH HIGHEST VALUE IS	0.02875 AT (	562076.93,	4821485.66,	310.19,	310.19,	0.00)	DC
	5TH HIGHEST VALUE IS	0.02713 AT (	562070.22,	4821492.13,	310.40,	310.40,	0.00)	DC
	6TH HIGHEST VALUE IS	0.02713 AT (	562070.22,	4821492.13,	310.40,	310.40,	0.00)	DC
	7TH HIGHEST VALUE IS	0.02679 AT (	562057.04,	4821518.74,	311.00,	311.00,	0.00)	DC
	8TH HIGHEST VALUE IS	0.02679 AT (	562057.04,	4821518.74,	311.00,	311.00,	0.00)	DC
	9TH HIGHEST VALUE IS	0.02637 AT (562063.97,	4821525.92,	311.00,	311.00,	0.00)	DC
	10TH HIGHEST VALUE IS	0.02637 AT (562063.97,	4821525.92,	311.00,	311.00,	0.00)	DC

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 *** AERMET - VERSION 14134 ***

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**MODELOPTS: NonDEFAULT CONC ELEV FLGPOL BETA

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

** CONC OF HCR IN NANOGRAMS/M3 **

GROUP ID	AVERAGE CONC		RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)				OF TYPE	NETWORK GRID-ID
B24	1ST HIGHEST VALUE IS	0.05293 AT (	562063.97,	4821525.92,	311.00,	311.00,	0.00)	DC
	2ND HIGHEST VALUE IS	0.05293 AT (	562063.97,	4821525.92,	311.00,	311.00,	0.00)	DC
	3RD HIGHEST VALUE IS	0.04613 AT (	562070.91,	4821533.11,	311.00,	311.00,	0.00)	DC
	4TH HIGHEST VALUE IS	0.04613 AT (	562070.91,	4821533.11,	311.00,	311.00,	0.00)	DC
	5TH HIGHEST VALUE IS	0.04269 AT (	562057.04,	4821518.74,	311.00,	311.00,	0.00)	DC
	6TH HIGHEST VALUE IS	0.04269 AT (	562057.04,	4821518.74,	311.00,	311.00,	0.00)	DC
	7TH HIGHEST VALUE IS	0.03650 AT (	562065.76,	4821512.01,	311.00,	311.00,	0.00)	DC
	8TH HIGHEST VALUE IS	0.03461 AT (	562085.76,	4821532.01,	311.00,	311.00,	0.00)	DC
	9TH HIGHEST VALUE IS	0.03175 AT (	562085.76,	4821512.01,	311.00,	311.00,	0.00)	DC
	10TH HIGHEST VALUE IS	0.02648 AT (	562077.84,	4821540.29,	311.01,	311.01,	0.00)	DC
B25	1ST HIGHEST VALUE IS	0.04940 AT (	562063.97,	4821525.92,	311.00,	311.00,	0.00)	DC
	2ND HIGHEST VALUE IS	0.04940 AT (	562063.97,	4821525.92,	311.00,	311.00,	0.00)	DC
	3RD HIGHEST VALUE IS	0.04009 AT (562070.91,	4821533.11,	311.00,	311.00,	0.00)	DC
	4TH HIGHEST VALUE IS	0.04009 AT (562070.91,	4821533.11,	311.00,	311.00,	0.00)	DC

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5TH	HIGHEST	VALUE	IS	0.03983	AT	(562057.04,	4821518.74,	311.00,	311.00,	0.00)	DC
6TH	HIGHEST	VALUE	IS	0.03983	AT	(562057.04,	4821518.74,	311.00,	311.00,	0.00)	DC
7TH	HIGHEST	VALUE	IS	0.03545	AT	(	562065.76,	4821512.01,	311.00,	311.00,	0.00)	DC
8TH	HIGHEST	VALUE	IS	0.03445	AT	(	562085.76,	4821512.01,	311.00,	311.00,	0.00)	DC
9TH	HIGHEST	VALUE	IS	0.02931	AT	(	562085.76,	4821532.01,	311.00,	311.00,	0.00)	DC
10TH	HIGHEST	VALUE	IS	0.02528	AT	(	562105.76,	4821512.01,	311.00,	311.00,	0.00)	DC

B32	1ST	HIGHEST	VALUE	IS	0.08470	AT	(	562063.97,	4821525.92,	311.00,	311.00,	0.00)	DC
	2ND	HIGHEST	VALUE	IS	0.08470	AT	(	562063.97,	4821525.92,	311.00,	311.00,	0.00)	DC
	3RD	HIGHEST	VALUE	IS	0.07642	AT	(	562057.04,	4821518.74,	311.00,	311.00,	0.00)	DC
	4TH	HIGHEST	VALUE	IS	0.07642	AT	(	562057.04,	4821518.74,	311.00,	311.00,	0.00)	DC
	5TH	HIGHEST	VALUE	IS	0.06892	AT	(	562070.91,	4821533.11,	311.00,	311.00,	0.00)	DC
	6TH	HIGHEST	VALUE	IS	0.06892	AT	(	562070.91,	4821533.11,	311.00,	311.00,	0.00)	DC
	7TH	HIGHEST	VALUE	IS	0.06327	AT	(	562050.10,	4821511.55,	311.00,	311.00,	0.00)	DC
	8TH	HIGHEST	VALUE	IS	0.06327	AT	(	562050.10,	4821511.55,	311.00,	311.00,	0.00)	DC
	9TH	HIGHEST	VALUE	IS	0.04438	AT	(	562085.76,	4821512.01,	311.00,	311.00,	0.00)	DC
	10TH	HIGHEST	VALUE	IS	0.04392	AT	(	562065.76,	4821512.01,	311.00,	311.00,	0.00)	DC

B33	1ST	HIGHEST	VALUE	IS	0.29562	AT	(	562063.97,	4821525.92,	311.00,	311.00,	0.00)	DC
	2ND	HIGHEST	VALUE	IS	0.29562	AT	(	562063.97,	4821525.92,	311.00,	311.00,	0.00)	DC
	3RD	HIGHEST	VALUE	IS	0.25393	AT	(	562057.04,	4821518.74,	311.00,	311.00,	0.00)	DC
	4TH	HIGHEST	VALUE	IS	0.25393	AT	(	562057.04,	4821518.74,	311.00,	311.00,	0.00)	DC
	5TH	HIGHEST	VALUE	IS	0.23387	AT	(	562070.91,	4821533.11,	311.00,	311.00,	0.00)	DC
	6TH	HIGHEST	VALUE	IS	0.23387	AT	(	562070.91,	4821533.11,	311.00,	311.00,	0.00)	DC
	7TH	HIGHEST	VALUE	IS	0.20783	AT	(	562065.76,	4821512.01,	311.00,	311.00,	0.00)	DC
	8TH	HIGHEST	VALUE	IS	0.18964	AT	(	562085.76,	4821512.01,	311.00,	311.00,	0.00)	DC
	9TH	HIGHEST	VALUE	IS	0.16851	AT	(562050.10,	4821511.55,	311.00,	311.00,	0.00)	DC
	10TH	HIGHEST	VALUE	IS	0.16851	AT	(562050.10,	4821511.55,	311.00,	311.00,	0.00)	DC

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**MODELOPTS: NonDEFAULT CONC ELEV FLGPOL BETA

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

** CONC OF HCR IN NANOGRAMS/M3 **

GROUP ID	AVERAGE CONC			RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)							OF TYPE	NETWORK GRID-ID	
B34	1ST	HIGHEST	VALUE	IS	0.06748	AT	(	562063.97,	4821525.92,	311.00,	311.00,	0.00)	DC
	2ND	HIGHEST	VALUE	IS	0.06748	AT	(	562063.97,	4821525.92,	311.00,	311.00,	0.00)	DC
	3RD	HIGHEST	VALUE	IS	0.05800	AT	(	562057.04,	4821518.74,	311.00,	311.00,	0.00)	DC
	4TH	HIGHEST	VALUE	IS	0.05800	AT	(	562057.04,	4821518.74,	311.00,	311.00,	0.00)	DC
	5TH	HIGHEST	VALUE	IS	0.05603	AT	(	562070.91,	4821533.11,	311.00,	311.00,	0.00)	DC
	6TH	HIGHEST	VALUE	IS	0.05603	AT	(	562070.91,	4821533.11,	311.00,	311.00,	0.00)	DC
	7TH	HIGHEST	VALUE	IS	0.04644	AT	(	562050.10,	4821511.55,	311.00,	311.00,	0.00)	DC
	8TH	HIGHEST	VALUE	IS	0.04644	AT	(	562050.10,	4821511.55,	311.00,	311.00,	0.00)	DC
	9TH	HIGHEST	VALUE	IS	0.04229	AT	(	562085.76,	4821512.01,	311.00,	311.00,	0.00)	DC
	10TH	HIGHEST	VALUE	IS	0.04150	AT	(	562065.76,	4821512.01,	311.00,	311.00,	0.00)	DC
B35	1ST	HIGHEST	VALUE	IS	0.06836	AT	(	562063.97,	4821525.92,	311.00,	311.00,	0.00)	DC
	2ND	HIGHEST	VALUE	IS	0.06836	AT	(562063.97,	4821525.92,	311.00,	311.00,	0.00)	DC
	3RD	HIGHEST	VALUE	IS	0.05709	AT	(562070.91,	4821533.11,	311.00,	311.00,	0.00)	DC

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4TH HIGHEST VALUE IS 0.05709 AT (562070.91, 4821533.11, 311.00, 311.00, 0.00) DC
 5TH HIGHEST VALUE IS 0.05418 AT (562057.04, 4821518.74, 311.00, 311.00, 0.00) DC
 6TH HIGHEST VALUE IS 0.05418 AT (562057.04, 4821518.74, 311.00, 311.00, 0.00) DC
 7TH HIGHEST VALUE IS 0.04574 AT (562065.76, 4821512.01, 311.00, 311.00, 0.00) DC
 8TH HIGHEST VALUE IS 0.04462 AT (562085.76, 4821512.01, 311.00, 311.00, 0.00) DC
 9TH HIGHEST VALUE IS 0.04101 AT (562085.76, 4821532.01, 311.00, 311.00, 0.00) DC
 10TH HIGHEST VALUE IS 0.03141 AT (562077.84, 4821540.29, 311.01, 311.01, 0.00) DC

B38 1ST HIGHEST VALUE IS 0.46967 AT (562063.97, 4821525.92, 311.00, 311.00, 0.00) DC
 2ND HIGHEST VALUE IS 0.46967 AT (562063.97, 4821525.92, 311.00, 311.00, 0.00) DC
 3RD HIGHEST VALUE IS 0.40347 AT (562070.91, 4821533.11, 311.00, 311.00, 0.00) DC
 4TH HIGHEST VALUE IS 0.40347 AT (562070.91, 4821533.11, 311.00, 311.00, 0.00) DC
 5TH HIGHEST VALUE IS 0.35431 AT (562057.04, 4821518.74, 311.00, 311.00, 0.00) DC
 6TH HIGHEST VALUE IS 0.35431 AT (562057.04, 4821518.74, 311.00, 311.00, 0.00) DC
 7TH HIGHEST VALUE IS 0.32344 AT (562085.76, 4821512.01, 311.00, 311.00, 0.00) DC
 8TH HIGHEST VALUE IS 0.31606 AT (562065.76, 4821512.01, 311.00, 311.00, 0.00) DC
 9TH HIGHEST VALUE IS 0.28446 AT (562085.76, 4821532.01, 311.00, 311.00, 0.00) DC
 10TH HIGHEST VALUE IS 0.23396 AT (562077.84, 4821540.29, 311.01, 311.01, 0.00) DC

C79 1ST HIGHEST VALUE IS 0.10893 AT (562063.97, 4821525.92, 311.00, 311.00, 0.00) DC
 2ND HIGHEST VALUE IS 0.10893 AT (562063.97, 4821525.92, 311.00, 311.00, 0.00) DC
 3RD HIGHEST VALUE IS 0.09493 AT (562085.76, 4821512.01, 311.00, 311.00, 0.00) DC
 4TH HIGHEST VALUE IS 0.09149 AT (562070.91, 4821533.11, 311.00, 311.00, 0.00) DC
 5TH HIGHEST VALUE IS 0.09149 AT (562070.91, 4821533.11, 311.00, 311.00, 0.00) DC
 6TH HIGHEST VALUE IS 0.08665 AT (562065.76, 4821512.01, 311.00, 311.00, 0.00) DC
 7TH HIGHEST VALUE IS 0.08102 AT (562057.04, 4821518.74, 311.00, 311.00, 0.00) DC
 8TH HIGHEST VALUE IS 0.08102 AT (562057.04, 4821518.74, 311.00, 311.00, 0.00) DC
 9TH HIGHEST VALUE IS 0.06501 AT (562085.76, 4821532.01, 311.00, 311.00, 0.00) DC
 10TH HIGHEST VALUE IS 0.06296 AT (562105.76, 4821512.01, 311.00, 311.00, 0.00) DC

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**MODELOPTS: NonDEFAULT CONC ELEV FLGPOL BETA

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

** CONC OF HCR IN NANOGRAMS/M3 **

GROUP ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
C80	1ST HIGHEST VALUE IS 0.10910 AT (562063.97, 4821525.92, 311.00, 311.00, 0.00)	DC		
	2ND HIGHEST VALUE IS 0.10910 AT (562063.97, 4821525.92, 311.00, 311.00, 0.00)	DC		
	3RD HIGHEST VALUE IS 0.10763 AT (562065.76, 4821512.01, 311.00, 311.00, 0.00)	DC		
	4TH HIGHEST VALUE IS 0.10032 AT (562057.04, 4821518.74, 311.00, 311.00, 0.00)	DC		
	5TH HIGHEST VALUE IS 0.10032 AT (562057.04, 4821518.74, 311.00, 311.00, 0.00)	DC		
	6TH HIGHEST VALUE IS 0.08681 AT (562085.76, 4821512.01, 311.00, 311.00, 0.00)	DC		
	7TH HIGHEST VALUE IS 0.07391 AT (562070.91, 4821533.11, 311.00, 311.00, 0.00)	DC		
	8TH HIGHEST VALUE IS 0.07391 AT (562070.91, 4821533.11, 311.00, 311.00, 0.00)	DC		
	9TH HIGHEST VALUE IS 0.06977 AT (562085.76, 4821492.01, 310.52, 310.52, 0.00)	DC		
	10TH HIGHEST VALUE IS 0.06310 AT (562056.81, 4821505.08, 310.84, 310.84, 0.00)	DC		
ALL	1ST HIGHEST VALUE IS 1.33256 AT (562063.97, 4821525.92, 311.00, 311.00, 0.00)	DC		
	2ND HIGHEST VALUE IS 1.33256 AT (562063.97, 4821525.92, 311.00, 311.00, 0.00)	DC		

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3RD HIGHEST VALUE IS	1.09710	AT (562070.91,	4821533.11,	311.00,	311.00,	0.00)	DC
4TH HIGHEST VALUE IS	1.09710	AT (562070.91,	4821533.11,	311.00,	311.00,	0.00)	DC
5TH HIGHEST VALUE IS	1.08749	AT (	562057.04,	4821518.74,	311.00,	311.00,	0.00)	DC
6TH HIGHEST VALUE IS	1.08749	AT (	562057.04,	4821518.74,	311.00,	311.00,	0.00)	DC
7TH HIGHEST VALUE IS	0.93439	AT (	562065.76,	4821512.01,	311.00,	311.00,	0.00)	DC
8TH HIGHEST VALUE IS	0.90047	AT (	562085.76,	4821512.01,	311.00,	311.00,	0.00)	DC
9TH HIGHEST VALUE IS	0.75640	AT (	562085.76,	4821532.01,	311.00,	311.00,	0.00)	DC
10TH HIGHEST VALUE IS	0.66782	AT (562050.10,	4821511.55,	311.00,	311.00,	0.00)	DC

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

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**MODELOPTS: NonDEFAULT CONC ELEV FLGPOL BETA

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

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

A Total of 0 Fatal Error Message(s)
 A Total of 0 Warning Message(s)
 A Total of 3 Informational Message(s)
 A Total of 8760 Hours Were Processed
 A Total of 3 Calm Hours Identified
 A Total of 0 Missing Hours Identified (0.00 Percent)

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

***** WARNING MESSAGES *****
 *** NONE ***

