

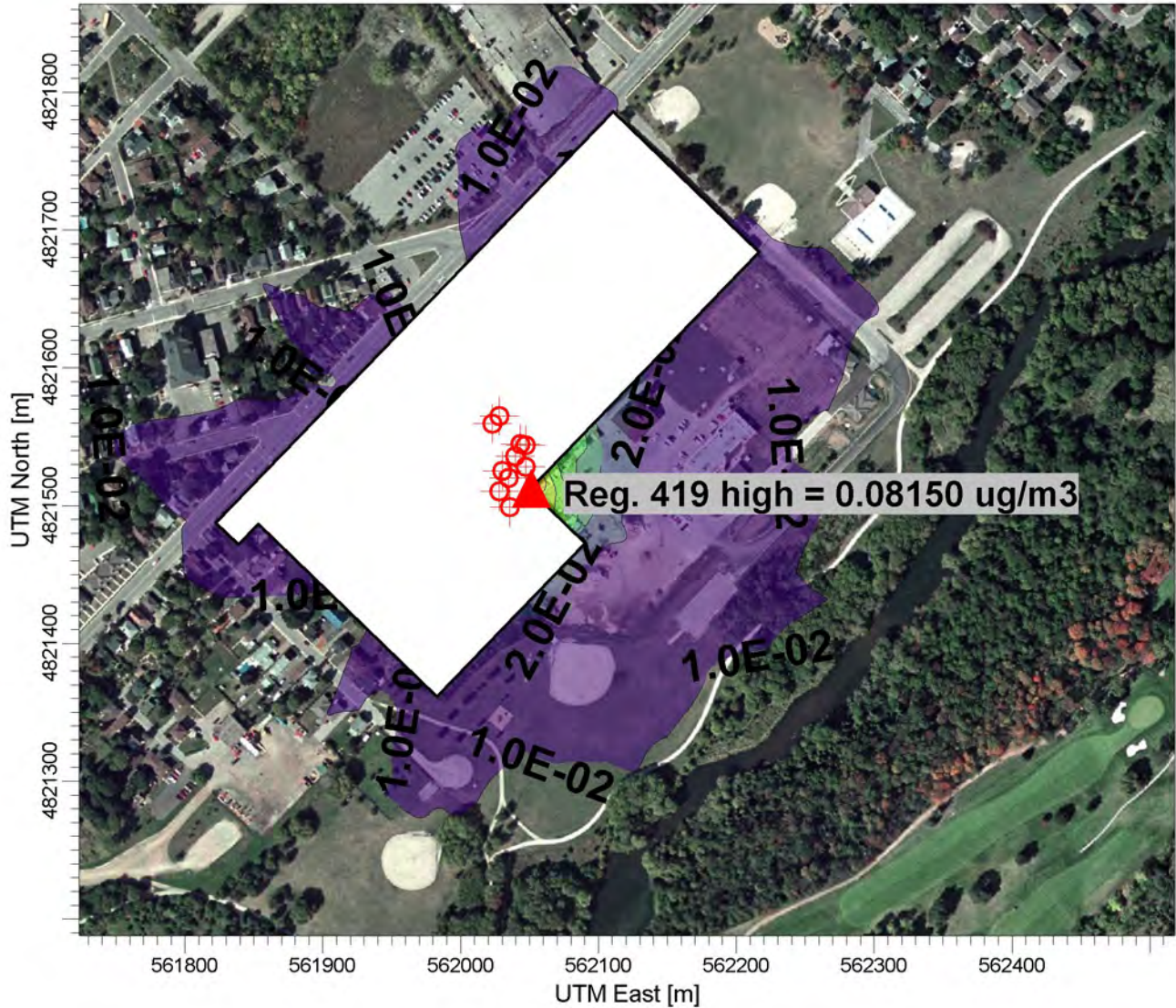
**Appendix J**

**Current 24 hour Modeling (hexavalent chromium)**



PROJECT TITLE:

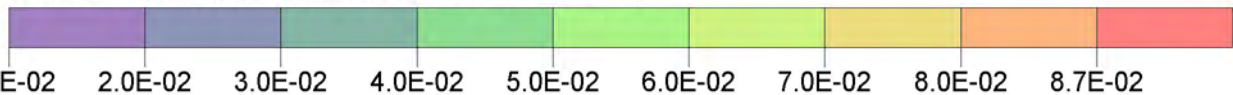
**OC Guelph Glass Plant  
24 HR Hexavalent Chromium Concentration**



PLOT FILE OF HIGH 1ST HIGH 24-HR VALUES FOR SOURCE GROUP: ALL

ug/m<sup>3</sup>

Max: 8.7E-02 [ug/m<sup>3</sup>] at (562050.10, 4821511.55)



COMMENTS:

Reg. 419 High = 0.08150 ug/m<sup>3</sup>

Reg 419 Grid

SOURCES:

**10**

RECEPTORS:

**2064**

OUTPUT TYPE:

**Concentration**

MAX:

**8.7E-02 ug/m<sup>3</sup>**

COMPANY NAME:

**Owens Corning Guelph Glass Plant**

MODELER:

**C. Mackay, LEHDER**

SCALE:

1:5,000

0 0.1 km

DATE:

**3/23/2015**



PROJECT NO.:

**144539**



# Source Pathway - Source Inputs

AERMOD

## 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       | B01       | 562035.79                              | 4821498.75       | 312.00                    | 32.03              | 0.00004             | 597.00             | 19.85                   | 0.58                      |
|             |           | 107 Furnace Stack (West)               |                  |                           |                    |                     |                    |                         |                           |
| POINT       | B11       | 562034.66                              | 4821520.18       | 312.00                    | 15.09              | 0.00015             | 401.00             | 6.31                    | 0.68                      |
|             |           | 107B Forehearth Stack                  |                  |                           |                    |                     |                    |                         |                           |
| POINT       | B38       | 562043.48                              | 4821544.79       | 312.00                    | 16.46              | 0.00003             | 379.00             | 5.43                    | 0.75                      |
|             |           | 105 Forehearth Stack                   |                  |                           |                    |                     |                    |                         |                           |
| POINT       | B08       | 562028.15                              | 4821510.37       | 312.00                    | 14.45              | 2.05E-6             | 321.90             | 12.59                   | 1.22                      |
|             |           | General Exhaust Above Furnace          |                  |                           |                    |                     |                    |                         |                           |
| POINT       | B10       | 562030.25                              | 4821525.28       | 312.00                    | 14.45              | 2.39E-6             | 321.90             | 12.10                   | 1.24                      |
|             |           | General Exhaust Above T107B F/H        |                  |                           |                    |                     |                    |                         |                           |
| POINT       | B32       | 562047.16                              | 4821528.02       | 312.00                    | 14.48              | 2.39E-6             | 321.90             | 19.19                   | 1.24                      |
|             |           | General Exhaust Above T106             |                  |                           |                    |                     |                    |                         |                           |
| POINT       | B34       | 562039.70                              | 4821535.65       | 312.00                    | 14.48              | 2.39E-6             | 321.90             | 19.19                   | 1.24                      |
|             |           | General Exhaust Above T107A F/H        |                  |                           |                    |                     |                    |                         |                           |
| POINT       | B35       | 562047.03                              | 4821543.82       | 312.00                    | 14.48              | 2.39E-6             | 321.90             | 19.19                   | 1.24                      |
|             |           | General Exhaust Above CFM Main Channel |                  |                           |                    |                     |                    |                         |                           |
| POINT       | C79       | 562023.15                              | 4821559.58       | 312.00                    | 11.64              | 2.04E-6             | 310.80             | 9.59                    | 1.41                      |
|             |           | General Exhaust West CFM F/H           |                  |                           |                    |                     |                    |                         |                           |
| POINT       | C80       | 562028.25                              | 4821564.97       | 312.00                    | 11.64              | 2.04E-6             | 310.80             | 9.59                    | 1.41                      |
|             |           | General Exhaust East CFM F/H           |                  |                           |                    |                     |                    |                         |                           |

## Volume Sources

No Volume Sources Specified

## Area Sources

No Area Sources Specified

```

                24_URT_RO
♀ *** AERMOD - VERSION 14134 ***   *** OC Guelph Project 144539 - Site Specific Standard   ***   03/02/15
*** AERMET - VERSION 14134 ***   *** 24_URT_RO (using MSP_Stage2_144539_24hr_Ann_Current_R1) ***   09:09:23
**MODELOPTs:  NonDEFAULT CONC      ELEV      FLGPOL      BETA
                ***      MODEL SETUP OPTIONS SUMMARY      ***
-----
**Model Is Setup For Calculation of Average CONCentration Values.
-- DEPOSITION LOGIC --
**NO GAS DEPOSITION Data Provided.
**NO PARTICLE DEPOSITION Data Provided.
**Model Uses NO DRY DEPLETION.  DRYDPLT = F
**Model Uses NO WET DEPLETION.  WETDPLT = F
**Model Uses RURAL Dispersion Only.
**Model Allows User-Specified Options:
  1. Stack-tip Downwash.
  2. Model Accounts for ELEVated Terrain Effects.
  3. Use Calms Processing Routine.
  4. Use Missing Data Processing Routine.
  5. No Exponential Decay.
  6. BETA Option for Capped & Horiz Stacks Selected With:
      5 Capped Stack(s); and      0 Horiz Stack(s)
**Other Options Specified:
  CCVR_Sub - Meteorological data includes CCVR substitutions
  TEMP_Sub - Meteorological data includes TEMP substitutions
**Model Accepts FLAGPOLE Receptor Heights.
**The User Specified a Pollutant Type of:  HCR
**Model Calculates 1 Short Term Average(s) of:  24-HR
**This Run Includes:      10 Source(s);      15 Source Group(s); and      2064 Receptor(s)
**Model Set To Continue RUNning After the Setup Testing.
**The AERMET Input Meteorological Data Version Date:  14134
**Output Options Selected:
  Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
  Model Outputs Tables of Overall Maximum Short Term Values (MAXTABLE Keyword)
  Model Outputs External File(s) of Threshold Violations (MAXFILE Keyword)
  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) =  325.00 ;  Decay Coef. =  0.000      ;  Rot. Angle =  0.0
  Emission Units = GRAMS/SEC      ;  Emission Rate Unit Factor =  0.10000E+07
  Output Units   = MICROGRAMS/M**3
**Approximate Storage Requirements of Model =  5.5 MB of RAM.
**File for Saving Result Arrays:  24_URT_RO.sv1
**File for Summary of Results:    24_URT_RO.sum
♀ *** AERMOD - VERSION 14134 ***   *** OC Guelph Project 144539 - Site Specific Standard   ***   03/02/15
*** AERMET - VERSION 14134 ***   *** 24_URT_RO (using MSP_Stage2_144539_24hr_Ann_Current_R1) ***   09:09:23
**MODELOPTs:  NonDEFAULT CONC      ELEV      FLGPOL      BETA

```

\*\*\* METEOROLOGICAL DAYS SELECTED FOR PROCESSING \*\*\*



\*\*MODELOPTs: NonDEFAULT CONC ELEV FLGPOL BETA

\*\*\* THE SUMMARY OF HIGHEST 24-HR RESULTS \*\*\*

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

| GROUP ID | AVERAGE CONC | DATE (YYMMDDHH)   | RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)                                  | OF TYPE | NETWORK GRID-ID |
|----------|--------------|-------------------|---|---------|-----------------|
| B01      | HIGH         | 1ST HIGH VALUE IS | 0.00322 ON 10041724: AT ( 562076.93, 4821485.66, 310.19, 310.19, 0.00)  | DC      |                 |
| B08      | HIGH         | 1ST HIGH VALUE IS | 0.00098 ON 10092124: AT ( 562050.10, 4821511.55, 311.00, 311.00, 0.00)  | DC      |                 |
| B10      | HIGH         | 1ST HIGH VALUE IS | 0.00074 ON 13092024: AT ( 562050.10, 4821511.55, 311.00, 311.00, 0.00)  | DC      |                 |
| B11      | HIGH         | 1ST HIGH VALUE IS | 0.08444 ON 10092124: AT ( 562050.10, 4821511.55, 311.00, 311.00, 0.00)  | DC      |                 |
| B32      | HIGH         | 1ST HIGH VALUE IS | 0.00141 ON 11110224: AT ( 562050.10, 4821511.55, 311.00, 311.00, 0.00)  | DC      |                 |
| B34      | HIGH         | 1ST HIGH VALUE IS | 0.00113c ON 10123024: AT ( 562050.10, 4821511.55, 311.00, 311.00, 0.00) | DC      |                 |
| B35      | HIGH         | 1ST HIGH VALUE IS | 0.00066 ON 10090424: AT ( 562085.76, 4821532.01, 311.00, 311.00, 0.00)  | DC      |                 |
| B38      | HIGH         | 1ST HIGH VALUE IS | 0.01110 ON 12112624: AT ( 562085.76, 4821532.01, 311.00, 311.00, 0.00)  | DC      |                 |
| C79      | HIGH         | 1ST HIGH VALUE IS | 0.00038 ON 10120624: AT ( 562063.97, 4821525.92, 311.00, 311.00, 0.00)  | DC      |                 |
| C80      | HIGH         | 1ST HIGH VALUE IS | 0.00037 ON 10122324: AT ( 562063.97, 4821525.92, 311.00, 311.00, 0.00)  | DC      |                 |
| GENEXHTS | HIGH         | 1ST HIGH VALUE IS | 0.00326c ON 10123024: AT ( 562050.10, 4821511.55, 311.00, 311.00, 0.00) | DC      |                 |
| HOTSRCS  | HIGH         | 1ST HIGH VALUE IS | 0.08456 ON 10092124: AT ( 562050.10, 4821511.55, 311.00, 311.00, 0.00)  | DC      |                 |
| FURNACE  | HIGH         | 1ST HIGH VALUE IS | 0.00322 ON 10041724: AT ( 562076.93, 4821485.66, 310.19, 310.19, 0.00)  | DC      |                 |
| FOREHEAR | HIGH         | 1ST HIGH VALUE IS | 0.08451 ON 10092124: AT ( 562050.10, 4821511.55, 311.00, 311.00, 0.00)  | DC      |                 |
| ALL      | HIGH         | 1ST HIGH VALUE IS | 0.08740 ON 10092124: AT ( 562050.10, 4821511.55, 311.00, 311.00, 0.00)  | DC      |                 |

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

\*\*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 45 Informational Message(s)  
  
A Total of 43824 Hours Were Processed  
  
A Total of 14 Calm Hours Identified  
  
A Total of 31 Missing Hours Identified ( 0.07 Percent)

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*



| *** THE MAXIMUM 2000 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL *** |      |      |         |            |          |         |      |                 |
|---|------|------|---------|------------|----------|---------|------|-----------------|
| RANK BY YEAR  | YEAR | RANK | CONC    | YYYYMMDDHH | XR       | YR      | TYPE | MOE Reg. 419/05 |
| 1   | 2009 | 24   | 0.07217 | 2009080424 | 562050.1 | 4821512 | DC   | Discarded       |
| 1   | 2010 | 2    | 0.0874  | 2010092124 | 562050.1 | 4821512 | DC   | Discarded       |
| 1   | 2011 | 10   | 0.08009 | 2011111924 | 562050.1 | 4821512 | DC   | Discarded       |
| 1   | 2012 | 3    | 0.08332 | 2012120424 | 562050.1 | 4821512 | DC   | Discarded       |
| 1   | 2013 | 22   | 0.07284 | 2013013024 | 562050.1 | 4821512 | DC   | Discarded       |
| 2   | 2009 | 23   | 0.07217 | 2009080424 | 562050.1 | 4821512 | DC   | Discarded       |
| 2   | 2010 | 1    | 0.0874  | 2010092124 | 562050.1 | 4821512 | DC   | Discarded       |
| 2   | 2011 | 9    | 0.08009 | 2011111924 | 562050.1 | 4821512 | DC   | Discarded       |
| 2   | 2012 | 4    | 0.08332 | 2012120424 | 562050.1 | 4821512 | DC   | Discarded       |
| 2   | 2013 | 21   | 0.07284 | 2013013024 | 562050.1 | 4821512 | DC   | Discarded       |
| 3   | 2009 | 26   | 0.0717  | 2009082524 | 562050.1 | 4821512 | DC   |                 |
| 3   | 2010 | 6    | 0.0815  | 2010112224 | 562050.1 | 4821512 | DC   | Highest         |
| 3   | 2011 | 14   | 0.07518 | 2011120424 | 562050.1 | 4821512 | DC   |                 |
| 3   | 2012 | 12   | 0.07746 | 2012030724 | 562050.1 | 4821512 | DC   |                 |
| 3   | 2013 | 28   | 0.07033 | 2013122924 | 562050.1 | 4821512 | DC   |                 |
| 4   | 2009 | 25   | 0.0717  | 2009082524 | 562050.1 | 4821512 | DC   |                 |
| 4   | 2010 | 5    | 0.0815  | 2010112224 | 562050.1 | 4821512 | DC   |                 |
| 4   | 2011 | 13   | 0.07518 | 2011120424 | 562050.1 | 4821512 | DC   |                 |
| 4   | 2012 | 11   | 0.07746 | 2012030724 | 562050.1 | 4821512 | DC   |                 |
| 4   | 2013 | 27   | 0.07033 | 2013122924 | 562050.1 | 4821512 | DC   |                 |
| 5   | 2009 | 31   | 0.06959 | 2009082524 | 562057   | 4821519 | DC   |                 |
| 5   | 2010 | 8    | 0.08071 | 2010092124 | 562057   | 4821519 | DC   |                 |
| 5   | 2011 | 19   | 0.07299 | 2011111924 | 562057   | 4821519 | DC   |                 |
| 5   | 2012 | 15   | 0.07474 | 2012030724 | 562057   | 4821519 | DC   |                 |
| 5   | 2013 | 34   | 0.0689  | 2013102424 | 562056.8 | 4821505 | DC   |                 |
| 6   | 2009 | 32   | 0.06959 | 2009082524 | 562057   | 4821519 | DC   |                 |
| 6   | 2010 | 7    | 0.08071 | 2010092124 | 562057   | 4821519 | DC   |                 |
| 6   | 2011 | 20   | 0.07299 | 2011111924 | 562057   | 4821519 | DC   |                 |
| 6   | 2012 | 16   | 0.07474 | 2012030724 | 562057   | 4821519 | DC   |                 |
| 6   | 2013 | 33   | 0.0689  | 2013102424 | 562056.8 | 4821505 | DC   |                 |
| 7   | 2009 | 44   | 0.0667  | 2009080424 | 562057   | 4821519 | DC   |                 |
| 7   | 2010 | 17   | 0.07453 | 2010112224 | 562057   | 4821519 | DC   |                 |
| 7   | 2011 | 55   | 0.0649  | 2011010224 | 562065.8 | 4821512 | DC   |                 |
| 7   | 2012 | 30   | 0.07015 | 2012092524 | 562050.1 | 4821512 | DC   |                 |
| 7   | 2013 | 50   | 0.06629 | 2013022424 | 562056.8 | 4821505 | DC   |                 |
| 8   | 2009 | 43   | 0.0667  | 2009080424 | 562057   | 4821519 | DC   |                 |
| 8   | 2010 | 18   | 0.07453 | 2010112224 | 562057   | 4821519 | DC   |                 |
| 8   | 2011 | 58   | 0.06406 | 2011120424 | 562057   | 4821519 | DC   |                 |
| 8   | 2012 | 29   | 0.07015 | 2012092524 | 562050.1 | 4821512 | DC   |                 |
| 8   | 2013 | 49   | 0.06629 | 2013022424 | 562056.8 | 4821505 | DC   |                 |
| 9   | 2009 | 45   | 0.06669 | 2009072824 | 562050.1 | 4821512 | DC   |                 |
| 9   | 2010 | 73   | 0.06304 | 2010100824 | 562056.8 | 4821505 | DC   |                 |
| 9   | 2011 | 59   | 0.06406 | 2011120424 | 562057   | 4821519 | DC   |                 |
| 9   | 2012 | 36   | 0.06819 | 2012092324 | 562056.8 | 4821505 | DC   |                 |
| 9   | 2013 | 51   | 0.0657  | 2013102424 | 562063.5 | 4821499 | DC   |                 |
| 10  | 2009 | 46   | 0.06669 | 2009072824 | 562050.1 | 4821512 | DC   |                 |
| 10  | 2010 | 72   | 0.06304 | 2010100824 | 562056.8 | 4821505 | DC   |                 |
| 10  | 2011 | 63   | 0.06344 | 2011010224 | 562056.8 | 4821505 | DC   |                 |
| 10  | 2012 | 35   | 0.06819 | 2012092324 | 562056.8 | 4821505 | DC   |                 |

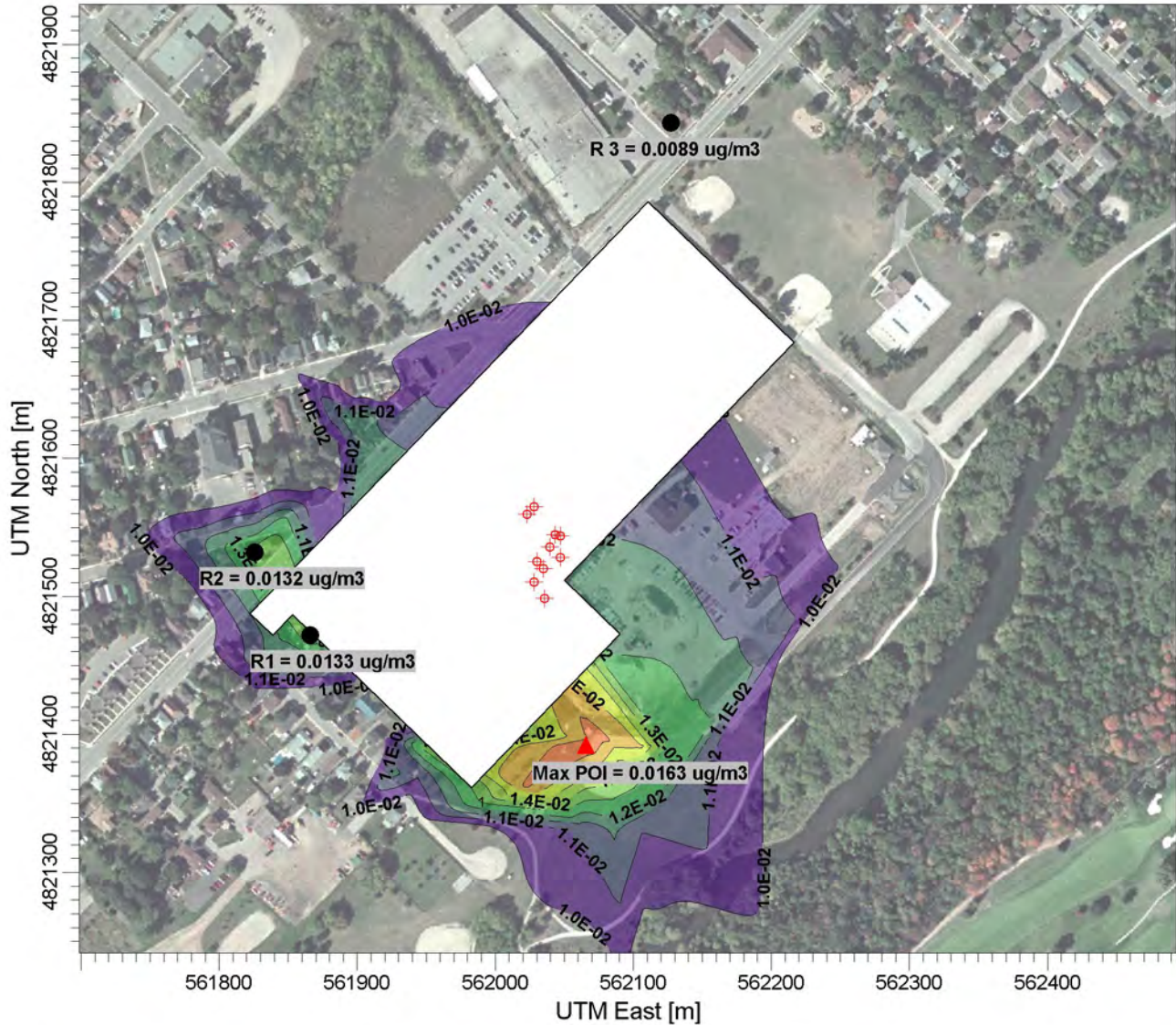
24 hour Concentration  
Data Summary

|                  |  |          |                  |                  |
|------------------|--|----------|------------------|------------------|
| Run (tab) Name:  | 24_URT_R0                                      |          |                  |                  |
| Run Description: | Current R1, Reg 419<br>grid, Site Specific Met |          |                  |                  |
|                  | 1st High                                       | 2nd High | Location:<br>Max | Location:<br>Max |
| Result Units:    | ug/m3  | ug/m3    | x                | y                |
| ALL              | 0.0874   | 0.0815   | 562050.1         | 4821512          |
| B01              | 0.00322  | 0.00313  | 562076.9         | 4821486          |
| B11              | 0.08444  | 0.0779   | 562050.1         | 4821512          |
| B38              | 0.0111   | 0.01056  | 562085.8         | 4821532          |
| B08              | 0.00098  | 0.00087  | 562050.1         | 4821512          |
| B10              | 0.00074  | 0.00063  | 562050.1         | 4821512          |
| B32              | 0.00141  | 0.0013   | 562050.1         | 4821512          |
| B34              | 0.00113  | 0.00094  | 562050.1         | 4821512          |
| B35              | 0.00066  | 0.00065  | 562085.8         | 4821532          |
| C79              | 0.00038  | 0.00037  | 562064           | 4821526          |
| C80              | 0.00037  | 0.00036  | 562064           | 4821526          |
| FURNACE          | 0.00322  | 0.00313  | 562076.9         | 4821486          |
| FOREHEAR         | 0.08451  | 0.07832  | 562050.1         | 4821512          |
| GENEXHTS         | 0.00326  | 0.00314  | 562050.1         | 4821512          |
| HOTSRCS          | 0.08456  | 0.07854  | 562050.1         | 4821512          |

PROJECT TITLE:

**OC Guelph Glass Plant**

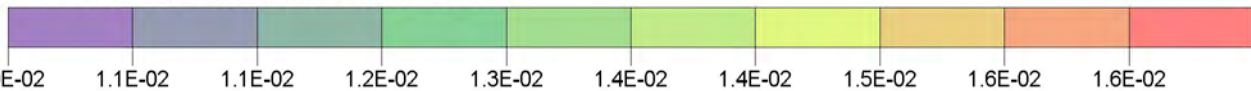
**24 HR Hexavalent Chromium Concentration - Current Operations (Sensitive Receptor Assessment)**



PLOT FILE OF HIGH 1ST HIGH 24-HR VALUES FOR SOURCE GROUP: ALL

ug/m<sup>3</sup>

Max: 1.6E-02 [ug/m<sup>3</sup>] at (562065.76, 4821392.01)



COMMENTS:

1st high at a sensitive receptor is 0.0133

1st high at the baseball diamond is 0.0163 ug/m<sup>3</sup>  
Sensitive Receptor Grid

Red Triangle = Max POI concentration  
Black Circle = Concentration at the location

SOURCES:

**10**

RECEPTORS:

**823**

OUTPUT TYPE:  
**Concentration**

MAX:

**1.6E-02 ug/m<sup>3</sup>**

COMPANY NAME:

**Owens Corning Guelph Glass Plant**

MODELER:

**C. Mackay, LEHDER**

SCALE:

1:5,000

0 0.1 km

DATE:

**3/23/2015**



PROJECT NO.:

**144539**

# Source Pathway - Source Inputs

AERMOD

## 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       | B01       | 562035.79                              | 4821498.75       | 312.00                    | 32.03              | 0.00004             | 597.00             | 19.85                   | 0.58                      |
|             |           | 107 Furnace Stack (West)               |                  |                           |                    |                     |                    |                         |                           |
| POINT       | B11       | 562034.66                              | 4821520.18       | 312.00                    | 15.09              | 0.00015             | 401.00             | 6.31                    | 0.68                      |
|             |           | 107B Forehearth Stack                  |                  |                           |                    |                     |                    |                         |                           |
| POINT       | B38       | 562043.48                              | 4821544.79       | 312.00                    | 16.46              | 0.00003             | 379.00             | 5.43                    | 0.75                      |
|             |           | 105 Forehearth Stack                   |                  |                           |                    |                     |                    |                         |                           |
| POINT       | B08       | 562028.15                              | 4821510.37       | 312.00                    | 14.45              | 2.05E-6             | 321.90             | 12.59                   | 1.22                      |
|             |           | General Exhaust Above Furnace          |                  |                           |                    |                     |                    |                         |                           |
| POINT       | B10       | 562030.25                              | 4821525.28       | 312.00                    | 14.45              | 2.39E-6             | 321.90             | 12.10                   | 1.24                      |
|             |           | General Exhaust Above T107B F/H        |                  |                           |                    |                     |                    |                         |                           |
| POINT       | B32       | 562047.16                              | 4821528.02       | 312.00                    | 14.48              | 2.39E-6             | 321.90             | 19.19                   | 1.24                      |
|             |           | General Exhaust Above T106             |                  |                           |                    |                     |                    |                         |                           |
| POINT       | B34       | 562039.70                              | 4821535.65       | 312.00                    | 14.48              | 2.39E-6             | 321.90             | 19.19                   | 1.24                      |
|             |           | General Exhaust Above T107A F/H        |                  |                           |                    |                     |                    |                         |                           |
| POINT       | B35       | 562047.03                              | 4821543.82       | 312.00                    | 14.48              | 2.39E-6             | 321.90             | 19.19                   | 1.24                      |
|             |           | General Exhaust Above CFM Main Channel |                  |                           |                    |                     |                    |                         |                           |
| POINT       | C79       | 562023.15                              | 4821559.58       | 312.00                    | 11.64              | 2.04E-6             | 310.80             | 9.59                    | 1.41                      |
|             |           | General Exhaust West CFM F/H           |                  |                           |                    |                     |                    |                         |                           |
| POINT       | C80       | 562028.25                              | 4821564.97       | 312.00                    | 11.64              | 2.04E-6             | 310.80             | 9.59                    | 1.41                      |
|             |           | General Exhaust East CFM F/H           |                  |                           |                    |                     |                    |                         |                           |

## Volume Sources

No Volume Sources Specified

## Area Sources

No Area Sources Specified

\*\*MODELOPTs: NonDEFAULT CONC ELEV FLGPOL BETA

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

---  
\*\*Model Is Setup For Calculation of Average CONCentration Values.

-- DEPOSITION LOGIC --

\*\*NO GAS DEPOSITION Data Provided.

\*\*NO PARTICLE DEPOSITION Data Provided.

\*\*Model Uses NO DRY DEPLETION. DRYDPLT = F

\*\*Model Uses NO WET DEPLETION. WETDPLT = F

\*\*Model Uses RURAL Dispersion Only.

\*\*Model Allows User-Specified Options:

1. Stack-tip Downwash.
2. Model Accounts for ELEVated Terrain Effects.
3. Use Calms Processing Routine.
4. Use Missing Data Processing Routine.
5. No Exponential Decay.
6. BETA Option for Capped & Horiz Stacks Selected With:

5 Capped Stack(s); and 0 Horiz Stack(s)

\*\*Other Options Specified:

CCVR\_Sub - Meteorological data includes CCVR substitutions  
TEMP\_Sub - Meteorological data includes TEMP substitutions

\*\*Model Accepts FLAGPOLE Receptor Heights.

\*\*The User Specified a Pollutant Type of: HCR

\*\*Model Calculates 1 Short Term Average(s) of: 24-HR

\*\*This Run Includes: 10 Source(s); 15 Source Group(s); and 823 Receptor(s)

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

\*\*The AERMET Input Meteorological Data Version Date: 14134

\*\*Output Options Selected:

Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)

Model Outputs Tables of Overall Maximum Short Term Values (MAXTABLE Keyword)

Model Outputs External File(s) of Threshold Violations (MAXFILE Keyword)

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) = 325.00 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0  
Emission Units = GRAMS/SEC ; Emission Rate Unit Factor = 0.10000E+07  
Output Units = MICROGRAMS/M\*\*3

\*\*Approximate Storage Requirements of Model = 4.6 MB of RAM.

\*\*File for Saving Result Arrays: 24\_URT\_SR\_RO.sv1

\*\*File for Summary of Results: 24\_URT\_SR\_RO.sum

\*\*MODELOPTs: NonDEFAULT CONC ELEV FLGPOL BETA

\*\*\* METEOROLOGICAL DAYS SELECTED FOR PROCESSING \*\*\*



\*\*MODELOPTs: NonDEFAULT CONC ELEV FLGPOL BETA

\*\*\* THE SUMMARY OF HIGHEST 24-HR RESULTS \*\*\*

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

| GROUP ID | AVERAGE CONC | DATE (YYMMDDHH)   | RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)                                 | OF TYPE | NETWORK GRID-ID |
|----------|--------------|-------------------|--|---------|-----------------|
| B01      | HIGH         | 1ST HIGH VALUE IS | 0.00093 ON 10031224: AT ( 561865.76, 4821472.01, 313.00, 313.00, 0.00) | DC      |                 |
| B08      | HIGH         | 1ST HIGH VALUE IS | 0.00014 ON 13030124: AT ( 562065.76, 4821392.01, 310.00, 310.00, 0.00) | DC      |                 |
| B10      | HIGH         | 1ST HIGH VALUE IS | 0.00019 ON 13042924: AT ( 561905.76, 4821612.01, 312.08, 312.08, 4.90) | DC      |                 |
| B11      | HIGH         | 1ST HIGH VALUE IS | 0.01354 ON 12110424: AT ( 562074.09, 4821396.45, 310.00, 310.00, 0.00) | DC      |                 |
| B32      | HIGH         | 1ST HIGH VALUE IS | 0.00013 ON 13091324: AT ( 562065.76, 4821392.01, 310.00, 310.00, 0.00) | DC      |                 |
| B34      | HIGH         | 1ST HIGH VALUE IS | 0.00013 ON 11051824: AT ( 561845.76, 4821552.01, 313.00, 313.00, 0.00) | DC      |                 |
| B35      | HIGH         | 1ST HIGH VALUE IS | 0.00011 ON 12102924: AT ( 562021.92, 4821362.23, 310.00, 310.00, 1.50) | DC      |                 |
| B38      | HIGH         | 1ST HIGH VALUE IS | 0.00252 ON 13120424: AT ( 561865.76, 4821572.01, 313.00, 313.00, 0.00) | DC      |                 |
| C79      | HIGH         | 1ST HIGH VALUE IS | 0.00012 ON 10032124: AT ( 561905.76, 4821432.01, 311.88, 311.88, 0.00) | DC      |                 |
| C80      | HIGH         | 1ST HIGH VALUE IS | 0.00011 ON 10032124: AT ( 561905.76, 4821412.01, 311.81, 311.81, 4.90) | DC      |                 |
| GENEXHTS | HIGH         | 1ST HIGH VALUE IS | 0.00085 ON 13091324: AT ( 562065.76, 4821392.01, 310.00, 310.00, 0.00) | DC      |                 |
| HOTSRCS  | HIGH         | 1ST HIGH VALUE IS | 0.01556 ON 12032924: AT ( 562065.76, 4821392.01, 310.00, 310.00, 0.00) | DC      |                 |
| FURNACE  | HIGH         | 1ST HIGH VALUE IS | 0.00093 ON 10031224: AT ( 561865.76, 4821472.01, 313.00, 313.00, 0.00) | DC      |                 |
| FOREHEAR | HIGH         | 1ST HIGH VALUE IS | 0.01503 ON 12032924: AT ( 562065.76, 4821392.01, 310.00, 310.00, 0.00) | DC      |                 |
| ALL      | HIGH         | 1ST HIGH VALUE IS | 0.01632 ON 12032924: AT ( 562065.76, 4821392.01, 310.00, 310.00, 0.00) | DC      |                 |

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

\*\*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 45 Informational Message(s)  
  
A Total of 43824 Hours Were Processed  
  
A Total of 14 Calm Hours Identified  
  
A Total of 31 Missing Hours Identified ( 0.07 Percent)

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*

