

## Dispersion Options

|  |   |
|--|---|
| <b>Titles</b><br>C:\Lakes\AERMOD View Trial\Projekti\Gren IVN\Gren HCl remodel\Gren H  |   |
| <b>Dispersion Options</b><br><input type="checkbox"/> Regulatory Default <input checked="" type="checkbox"/> Non-Default Options   | <b>Dispersion Coefficient</b><br>Rural  |
| <input checked="" type="checkbox"/> Elevated Terrain<br><input type="checkbox"/> No Stack-Tip Downwash (NOSTD)<br><input type="checkbox"/> Run in Screening Mode<br><input type="checkbox"/> Conversion of NOx to NO2 (OLM or PVMRM)<br><input type="checkbox"/> No Checks for Non-Sequential Met Data<br><input type="checkbox"/> Fast All Sources (FASTALL)<br><input type="checkbox"/> Fast Area Sources (FASTAREA)<br><input type="checkbox"/> Optimized Area Source Plume Depletion<br><input checked="" type="checkbox"/> Gas Deposition | <b>Output Type</b><br><input checked="" type="checkbox"/> Concentration<br><input type="checkbox"/> Total Deposition (Dry & Wet)<br><input checked="" type="checkbox"/> Dry Deposition<br><input type="checkbox"/> Wet Deposition |
| <div style="border: 1px solid black; padding: 5px;"> <b>BETA Options:</b><br/> <input type="checkbox"/> Capped and Horizontal Stack Releases<br/> <input type="checkbox"/> Adjusted Friction Velocity (<math>u^*</math>) in AERMET (ADJ_U*)<br/> <input type="checkbox"/> Low Wind Options         </div> <input type="checkbox"/> SCIM (Sampled Chronological Input Model)<br><input type="checkbox"/> Ignore Urban Night / Daytime Transition (NOURBTRAN)  | <b>Plume Depletion</b><br><input type="checkbox"/> Dry Removal<br><input type="checkbox"/> Wet Removal  |
|  | <b>Output Warnings</b><br><input type="checkbox"/> No Output Warnings<br><input type="checkbox"/> Non-fatal Warnings for Non-sequential Met Data  |

## Pollutant / Averaging Time / Terrain Options

|   |   |
|---|---|
| <b>Pollutant Type</b><br>OTHER - NH3  | <b>Exponential Decay</b><br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No   |
| <b>Averaging Time Options</b><br>Hours <input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 6 <input type="checkbox"/> 8 <input type="checkbox"/> 12 <input checked="" type="checkbox"/> 24<br><input type="checkbox"/> Month <input type="checkbox"/> Period <input checked="" type="checkbox"/> Annual | <b>Terrain Height Options</b><br><input type="checkbox"/> Flat <input checked="" type="checkbox"/> Elevated      SO: Meters<br>RE: Meters<br>TG: Meters |
| <b>Flagpole Receptors</b><br><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No<br>Default Height = 2,00 m   |   |

## Optional Files



Re-Start File



Init File



Multi-Year Analyses



Event Input File



Error Listing File

### Detailed Error Listing File

Filename: Gren NH3 remodel.err

# Receptor Pathway

AERMOD

## Receptor Networks

Note: Terrain Elevations and Flagpole Heights for Network Grids are in Page RE2 - 1 (If applicable)  
Generated Discrete Receptors for Multi-Tier (Risk) Grid and Receptor Locations for Fenceline Grid are in Page RE3 - 1 (If applicable)

### Uniform Cartesian Grid

| Receptor Network ID | Grid Origin X Coordinate [m] | Grid Origin Y Coordinate [m] | No. of X-Axis Receptors | No. of Y-Axis Receptors | Spacing for X-Axis [m] | Spacing for Y-Axis [m] |
|---------------------|------------------------------|------------------------------|-------------------------|-------------------------|------------------------|------------------------|
| UCART1              | 331529.00                    | 6309796.00                   | 81                      | 81                      | 50.00                  | 50.00                  |

## Discrete Receptors

## Plant Boundary Receptors

# Results Summary

C:\Lakes\AERMOD View Trial\Projekti\Gren IVN\Gren HCl remodel\Gren H

## NH3 - Concentration - Source Group: ALL

| Averaging Period | Rank      | Peak    | Units  | X (m)     | Y (m)      | ZELEV (m) | ZFLAG (m) | ZHILL (m) | Peak Date, Start Hour |
|------------------|-----------|---------|--------|-----------|------------|-----------|-----------|-----------|-----------------------|
| 1-HR             | 1ST       | 0.62428 | ug/m^3 | 332379.00 | 6310646.00 | 11.20     | 2.00      | 11.20     | 22.08.2022, 21        |
| 24-HR            | 1ST       | 0.21120 | ug/m^3 | 332429.00 | 6310746.00 | 17.10     | 2.00      | 17.10     | 20.04.2022, 24        |
| ANNUAL           |           | 0.02740 | ug/m^3 | 333279.00 | 6311546.00 | 21.30     | 2.00      | 21.30     |                       |
| 1-HR             | 100,00pct | 0.62428 | ug/m^3 | 332379.00 | 6310646.00 | 11.20     | 2.00      | 11.20     |                       |
| 24-HR            | 100,00pct | 0.21120 | ug/m^3 | 332429.00 | 6310746.00 | 17.10     | 2.00      | 17.10     |                       |

## NH3 - Dry Deposition - Source Group: ALL

| Averaging Period | Rank      | Peak    | Units | X (m)     | Y (m)      | ZELEV (m) | ZFLAG (m) | ZHILL (m) | Peak Date, Start Hour |
|------------------|-----------|---------|-------|-----------|------------|-----------|-----------|-----------|-----------------------|
| 1-HR             | 1ST       | 0.00002 | g/m^2 | 332829.00 | 6310596.00 | 11.00     | 2.00      | 11.00     |                       |
| 24-HR            | 1ST       | 0.00009 | g/m^2 | 332729.00 | 6311246.00 | 19.90     | 2.00      | 19.90     |                       |
| ANNUAL           |           | 0.00401 | g/m^2 | 333279.00 | 6311496.00 | 16.80     | 2.00      | 23.00     |                       |
| 1-HR             | 100,00pct | 0.00002 | g/m^2 | 332829.00 | 6310646.00 | 11.00     | 2.00      | 11.00     |                       |
| 24-HR            | 100,00pct | 0.00009 | g/m^2 | 332779.00 | 6311246.00 | 21.20     | 2.00      | 21.20     |                       |

# Results Summary

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## NH3 - Concentration - Source Group: ALL

| Averaging Period | Rank      | Peak    | Units  | X (m)     | Y (m)      | ZELEV (m) | ZFLAG (m) | ZHILL (m) | Peak Date, Start Hour |
|------------------|-----------|---------|--------|-----------|------------|-----------|-----------|-----------|-----------------------|
| 1-HR             | 1ST       | 0.62364 | ug/m^3 | 332379.00 | 6310646.00 | 11.20     | 2.00      | 11.20     | 22.05.2023, 21        |
| 24-HR            | 1ST       | 0.20149 | ug/m^3 | 332429.00 | 6310796.00 | 18.70     | 2.00      | 18.70     | 19.04.2023, 24        |
| ANNUAL           |           | 0.02645 | ug/m^3 | 333279.00 | 6311546.00 | 21.30     | 2.00      | 21.30     |                       |
| 1-HR             | 100,00pct | 0.62364 | ug/m^3 | 332379.00 | 6310646.00 | 11.20     | 2.00      | 11.20     |                       |
| 24-HR            | 100,00pct | 0.20149 | ug/m^3 | 332429.00 | 6310796.00 | 18.70     | 2.00      | 18.70     |                       |

## NH3 - Dry Deposition - Source Group: ALL

| Averaging Period | Rank      | Peak    | Units | X (m)     | Y (m)      | ZELEV (m) | ZFLAG (m) | ZHILL (m) | Peak Date, Start Hour |
|------------------|-----------|---------|-------|-----------|------------|-----------|-----------|-----------|-----------------------|
| 1-HR             | 1ST       | 0.00001 | g/m^2 | 332629.00 | 6309846.00 | 10.80     | 2.00      | 10.80     |                       |
| 24-HR            | 1ST       | 0.00009 | g/m^2 | 333429.00 | 6311246.00 | 9.00      | 2.00      | 9.00      |                       |
| ANNUAL           |           | 0.00384 | g/m^2 | 333129.00 | 6311396.00 | 22.30     | 2.00      | 22.30     |                       |
| 1-HR             | 100,00pct | 0.00001 | g/m^2 | 332729.00 | 6310796.00 | 13.90     | 2.00      | 13.90     |                       |
| 24-HR            | 100,00pct | 0.00009 | g/m^2 | 333429.00 | 6311246.00 | 9.00      | 2.00      | 9.00      |                       |

# Results Summary

C:\Lakes\AERMOD View Trial\Projekti\Gren IVN\Gren HCI remodel\Gren H

## NH3 - Concentration - Source Group: ALL

| Averaging Period | Rank      | Peak    | Units  | X (m)     | Y (m)      | ZELEV (m) | ZFLAG (m) | ZHILL (m) | Peak Date, Start Hour |
|------------------|-----------|---------|--------|-----------|------------|-----------|-----------|-----------|-----------------------|
| 1-HR             | 1ST       | 0.66312 | ug/m^3 | 332379.00 | 6310646.00 | 11.20     | 2.00      | 11.20     | 01.06.2024, 22        |
| 24-HR            | 1ST       | 0.20720 | ug/m^3 | 332429.00 | 6310746.00 | 17.10     | 2.00      | 17.10     | 01.10.2024, 24        |
| ANNUAL           |           | 0.02711 | ug/m^3 | 332879.00 | 6311446.00 | 22.90     | 2.00      | 22.90     |                       |
| 1-HR             | 100,00pct | 0.66312 | ug/m^3 | 332379.00 | 6310646.00 | 11.20     | 2.00      | 11.20     |                       |
| 24-HR            | 100,00pct | 0.20720 | ug/m^3 | 332429.00 | 6310746.00 | 17.10     | 2.00      | 17.10     |                       |

## NH3 - Dry Deposition - Source Group: ALL

| Averaging Period | Rank      | Peak    | Units | X (m)     | Y (m)      | ZELEV (m) | ZFLAG (m) | ZHILL (m) | Peak Date, Start Hour |
|------------------|-----------|---------|-------|-----------|------------|-----------|-----------|-----------|-----------------------|
| 1-HR             | 1ST       | 0.00001 | g/m^2 | 332879.00 | 6310046.00 | 19.10     | 2.00      | 19.10     |                       |
| 24-HR            | 1ST       | 0.00009 | g/m^2 | 333329.00 | 6311346.00 | 8.00      | 2.00      | 22.00     |                       |
| ANNUAL           |           | 0.00382 | g/m^2 | 333129.00 | 6311396.00 | 22.30     | 2.00      | 22.30     |                       |
| 1-HR             | 100,00pct | 0.00001 | g/m^2 | 332779.00 | 6310696.00 | 11.30     | 2.00      | 11.30     |                       |
| 24-HR            | 100,00pct | 0.00009 | g/m^2 | 333329.00 | 6311396.00 | 8.90      | 2.00      | 8.90      |                       |

# 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       | A1        | 333017.00<br>lekartas dumenis | 6310997.00       | 23.13                     | 70.00              | 0,08540             | 317.35             | 14.30                   | 1.95                      |