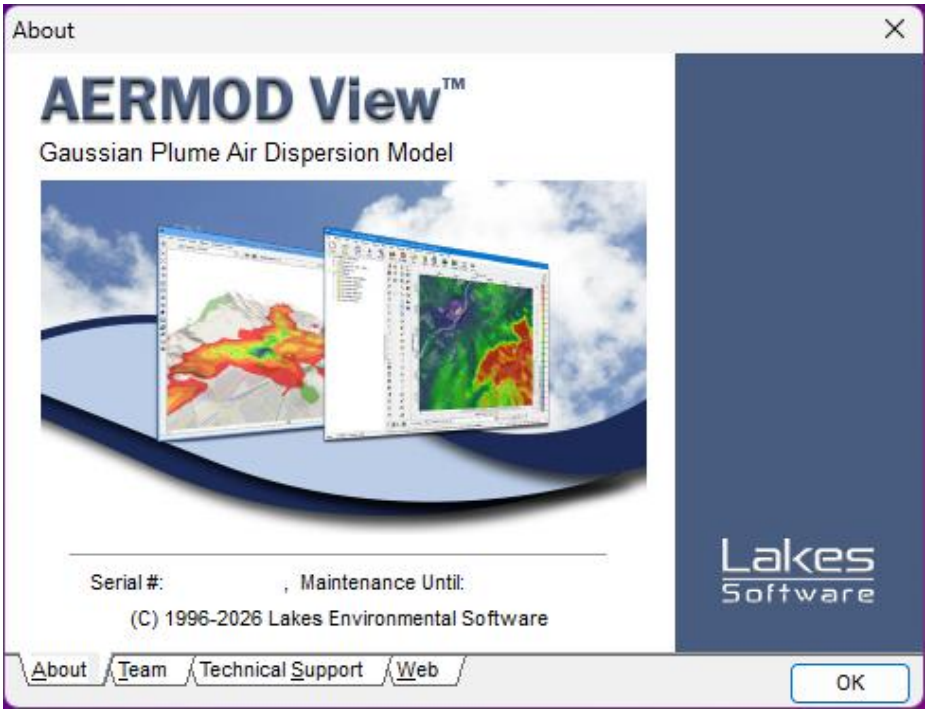
AERMOD View™

Gaussian Plume Air Dispersion Model - AERMOD

Release Notes

Versions 13.0 & 13.1



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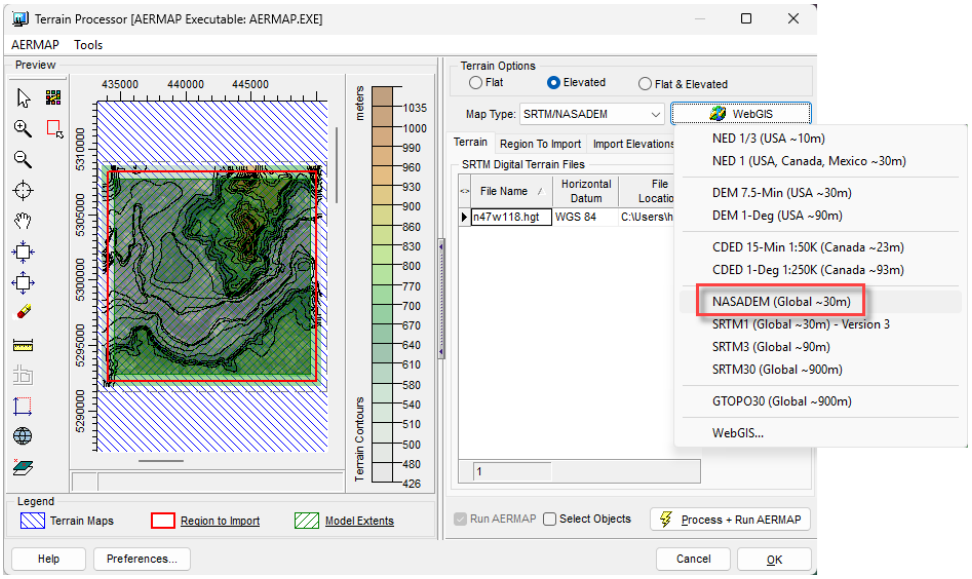
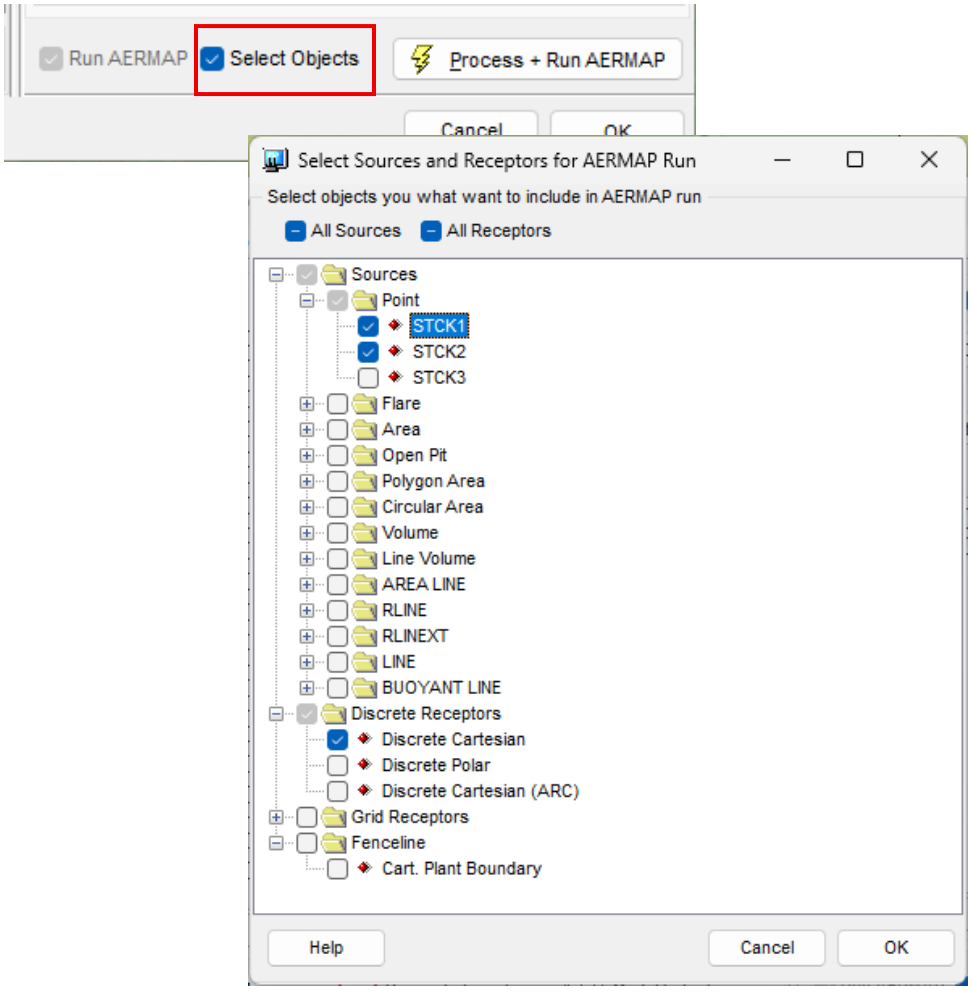
AERMOD View™ Version 13.1

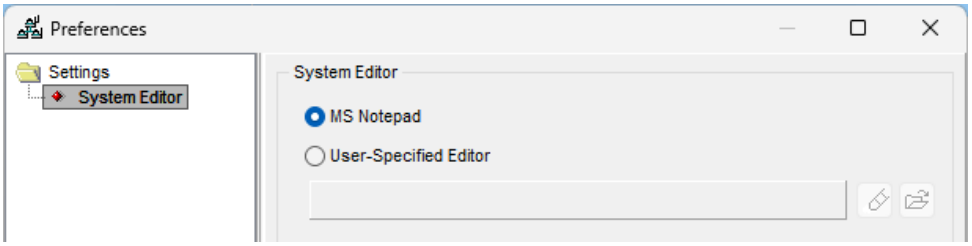
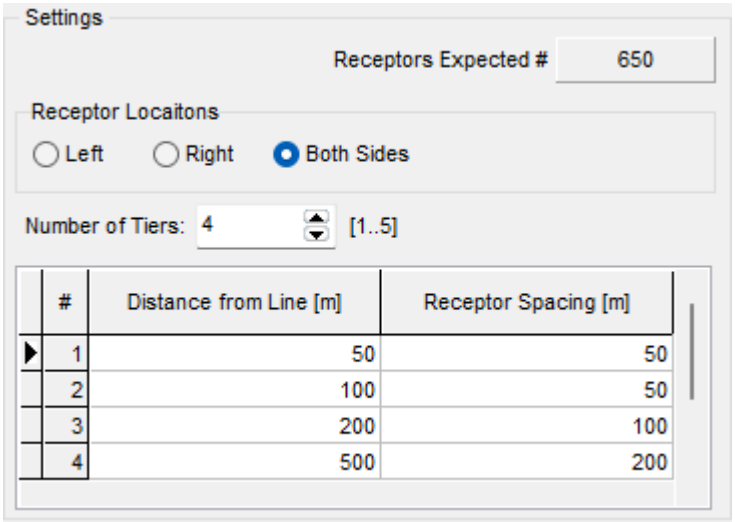
Release Notes

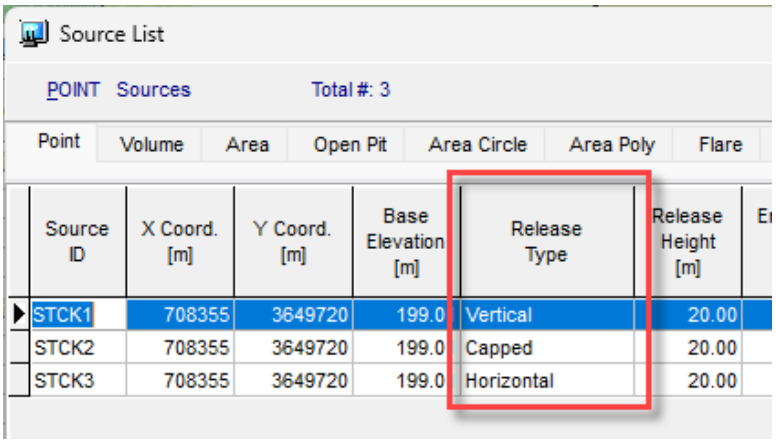
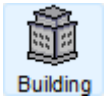
July 7, 2026

New Features

Topic	Feature Description
Terrain Processor	**New NASADEM Terrain File Format in WebGIS** WebGIS now includes automated download of the **NASADEM** digital elevation model (DEM) data. NASADEM is a modernization of the original SRTM data spanning regions between 60°N and 56°S latitude. NASADEM features improved void filling, updated calibration, and greater vertical accuracy over SRTM.  **Note:** A **current maintenance agreement** is required to access NASADEM data downloads from WebGIS.

Topic	Feature Description
Terrain Processor	**Run AERMAP for Selected Objects** AERMOD View's Terrain Processor now supports execution of AERMAP for specific objects. Use the new **Select Objects** checkbox to enable the source & receptor selection dialog. AERMAP files associated with partial object runs will be stored in a new sub-folder named "**<project>.MAP_N**". Files from full AERMAP runs will continue to be stored in the main project folder. Each object's elevation will be based on the most recent AERMAP run in which it was included. 

Topic	Feature Description
Batcher	**New Default System Editor and Preferences Menu** Batcher now allows selection of the default System Editor through the **File | Preferences** menu. The default editor is now **MS Notepad** following Microsoft's removal of WordPad from Windows 11. Select the "User-Specified Editor" option to set a third-party editor as the default. 
Receptor Pathway	**New Settings for Polyline Receptor Tool** The Polyline Receptor Tool has been updated to allow more customization of receptor placement. Added features include the ability to add receptors to Both Sides of the line and custom spacing for each defined Tier. 
Source Pathway	**Buoyant Line Source Sorting & Configuration** Updated input file generation routines now automatically order Buoyant Line sources based on AERMOD's direct code. This helps eliminate fatal errors in run execution due to non-compliant source definition.

Topic	Feature Description
Source Pathway	**Release Type Column Display** The Source List table now permanently displays the Release Type column for all Point sources. 
Buildings	**Display Optimization** Opening the **Building Inputs** dialog is now faster due to optimization of the Preview panel. 
AERMET View	**Miscellaneous Improvements** • An additional check was added to ensure the required height variable is included in projects utilizing the **Onsite Pathway**. • The **Import Model Input** option now defaults to the **Combined** input file format introduced in AERMET 22112. • Additional upper air file details are imported from **MMIF** input files.

Fixed Issues

Topic	Feature Description
AERMET View	**Minor Updates** • The **Overwater (OW) flag** has been restored on the Onsite Pathway for AERMET 23132 & later. This option was originally limited to the Prognostic Pathway only in AERMET 22112. • An additional version check was added to ensure options relevant in newer model versions only are flagged when the selected model version is outdated. • A file access issue in the **ADMS UK to SAMSON Converter** utility was addressed.
Source Pathway	**Source Import Improvements** Import behavior for sources was modified to allow for more consistency between menu options and buttons. In addition, variable emission scenarios are now better organized.
Source Pathway	**Particle Diameter Precision** Scientific notation is now used to define very small particle diameter values less than 1 micron to eliminate model runtime errors.
Output Pathway	**Manual File Unit Number Correction** The option to manually set output file unit numbers was updated to remove a restriction from original AERMOD code. These numbers can now be set to any user-defined value.
Multi-Chem	**Treatment of Runs with Modified Receptors** A fix was applied to allow Multi-Chem to run new sources successfully using a modified receptor set compared to any prior model runs.
Reports	**Percentile Label Correction** Labels describing user-defined Percentiles were corrected for projects that include the 1-Hour NO2/SO2 NAAQS routines.

Known Issues

Topic	Issue Description
AERMOD Model	**AERMOD System Bugs, Errata, and Related Guidance** The U.S. EPA now maintains a list on their website of known issues with the current modeling system. The complete list is available at: https://gaftp.epa.gov/Air/aqmg/SCRAM/models/preferred/aermod/AERMOD_System_Bugs_and_Related_Guidance.pdf
New Project Wizard	**No Spaces in Project Name with ISC** The ISCST3 and ISC-PRIME models are included in AERMOD for backwards compatibility purposes. Due to limitations in their code, these models will issue a fatal error if the project name contains spaces or special characters.

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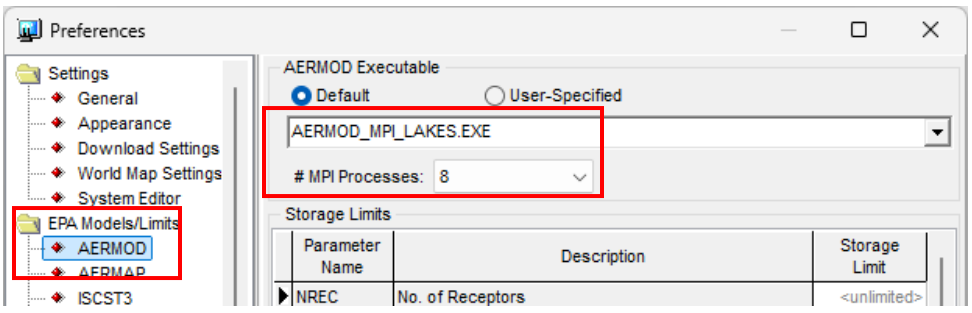
AERMOD View™ Version 13.0

Release Notes

January 29, 2025

New Features

Topic	Feature Description
AERMOD	**Latest Release of U.S. EPA AERMOD Model Available – Dated 24142** The following U.S. EPA Models were released on November 20, 2024 and are incorporated into **AERMOD View Version 13.0**: 1. AERMOD.EXE is the latest version 24142 (32-Bit Version) 2. AERMOD_24142_X32.EXE – The same as above (32-Bit Version) 3. AERMOD_24142_X64.EXE – 64-Bit Version See the Model Change Bulletin for a list of changes and bug fixes: https://gaftp.epa.gov/Air/aqmg/SCRAM/models/preferred/aermod/aermod_mcb18.pdf
AERMOD MPI	**New Version of Lakes AERMOD MPI 24142 (Parallel Version)** A new version of the Lakes AERMOD MPI model for the U.S. EPA Model Version 24142 is now available (AERMOD_MPI_LAKES_24142.exe). The installation includes 64-bit and 32-bit versions. You can select this model under the **Preferences** dialog. **Note:** AERMOD_MPI_LAKES_24142.EXE or AERMOD_MPI_LAKES.EXE will run the latest version of the AERMOD model (24142) in parallel mode using up to a maximum of 8 cores. 

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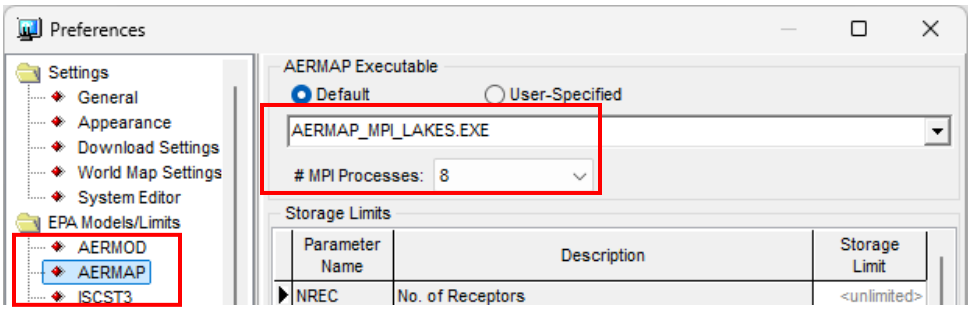
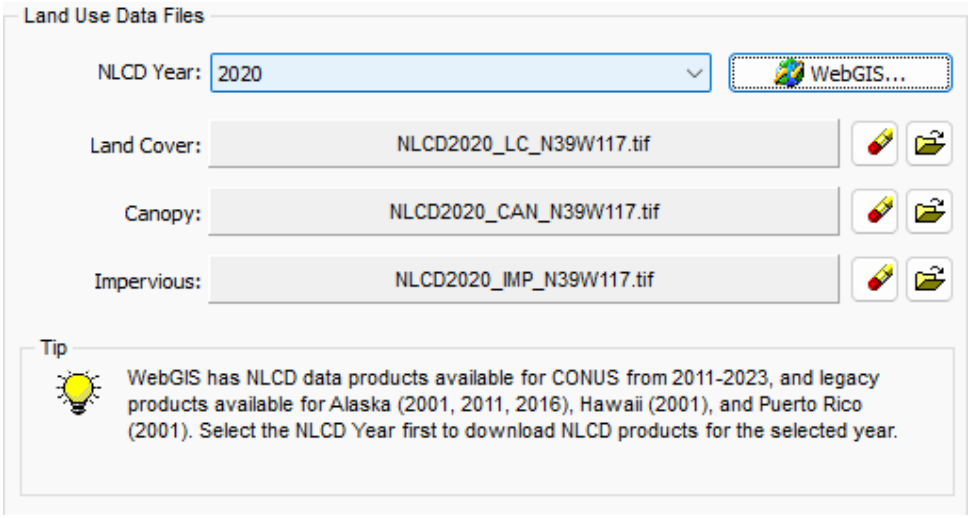
AERMAP	**Latest Release of U.S. EPA AERMAP Model Available – Dated 24142** The following U.S. EPA Models were released on November 20, 2024 and are incorporated into **AERMOD View Version 13.0**: • AERMAP.EXE is the latest version 24142 (32-Bit Version) • AERMAP_24142_X32.EXE – The same as above (32-Bit Version) • AERMAP_24142_X64.EXE – 64-Bit Version See the Model Change Bulletin for a list of changes and bug fixes: https://gaftp.epa.gov/air/aqmg/scram/models/related/aermap/aermap_mcb5.pdf
AERMAP MPI	**New Version of Lakes AERMAP MPI 24142 (Parallel Version)** A new version of the Lakes AERMAP MPI model for the U.S. EPA Model Version 24142 is now available (AERMAP_MPI_LAKES_24142.exe). The installation includes 64-bit and 32-bit versions. You can select this model under the **Preferences** dialog. **Note:** AERMAP_MPI_LAKES_24142.EXE or AERMAP_MPI_LAKES.EXE will run the latest version of the AERMAP model (24142) in parallel mode using up to a maximum of 8 cores. 
Terrain Processor	**Support for Single Pathway Runs in AERMAP** AERMAP 24142 allows runs to be conducted for **sources only** (i.e., projects with no receptors). Existing support for receptor-only runs still exists.

Topic	Feature Description
AERMET	**Latest Release of U.S. EPA AERMET Model Available – Dated 24142** The following U.S. EPA Models were released on November 20, 2024 and are incorporated into **AERMET View Version 13.0**: • AERMET.EXE is the latest version 24142 (32-Bit Version) • AERMET_24142_X32.EXE – The same as above (32-Bit Version) • AERMET_24142_X64.EXE – 64-Bit Version See the Model Change Bulletin for a list of changes and bug fixes: https://gaftp.epa.gov/Air/aqmg/SCRAM/models/met/aermet/aermet_mcb14.pdf
AERMET View	**Upper Air Pathway Improvements** Input settings on the Upper Air pathway of AERMET View have been improved based on NOAA's removal of the Forecast Systems Laboratory (FSL) radiosonde database. Modifications include: • Making NCEI's **Integrated Global Radiosonde Archive (IGRA)** the default **Format** selection • Expanded upper air **Station Database** including new global station information • Automated import of station coordinates for the input data file • Automated import of **Base Elevation** values from the new Station Database. **NOTE:** This parameter is **required** on the Upper Air pathway with the **24142** model release. • Added a project check to ensure the upper air Base Elevation is provided.
AERMET View	**Expanded List of Onsite & Prognostic Variables** The list of variables for the Onsite & Prognostic Pathways has been expanded to include single-level variables associated with overwater processing. The new parameters include: • TSEA – Sea surface temperature (°C) • ZDEP – Depth of sea surface temperature (m) • HWAV – Significant wave height (m) • TWAV – Significant wave period (m) • RDOW – Longwave downward radiation (watts/sq. meter)

Topic	Feature Description
AERSURFACE	**Latest Release of U.S. EPA AERSURFACE Tool Available – Dated 24142** The U.S. EPA released a new version of AERSURFACE on November 20, 2024 replacing the previous release (20060). See the Model Change Bulletin for a list of changes and bug fixes: https://gaftp.epa.gov/Air/aqmg/SCRAM/models/related/aersurface/aersurface_mcb4.pdf
WebGIS	**Enhanced NLCD Downloads for AERSURFACE** With AERSURFACE 24142 supporting the latest Annual NLCD data products from MRLC, WebGIS now has expanded data downloads of **land cover**, **percent canopy**, and **percent impervious** data files. For projects in the **continental United States**, WebGIS will download all three products for the years **2011-2021**. Land cover data only can be downloaded for **2022-2023**. Users can manually insert files for other product years that have been downloaded from the MRLC website. Legacy data is also available for **Alaska** (2016), **Hawaii** (2001), and **Puerto Rico** (2001). 

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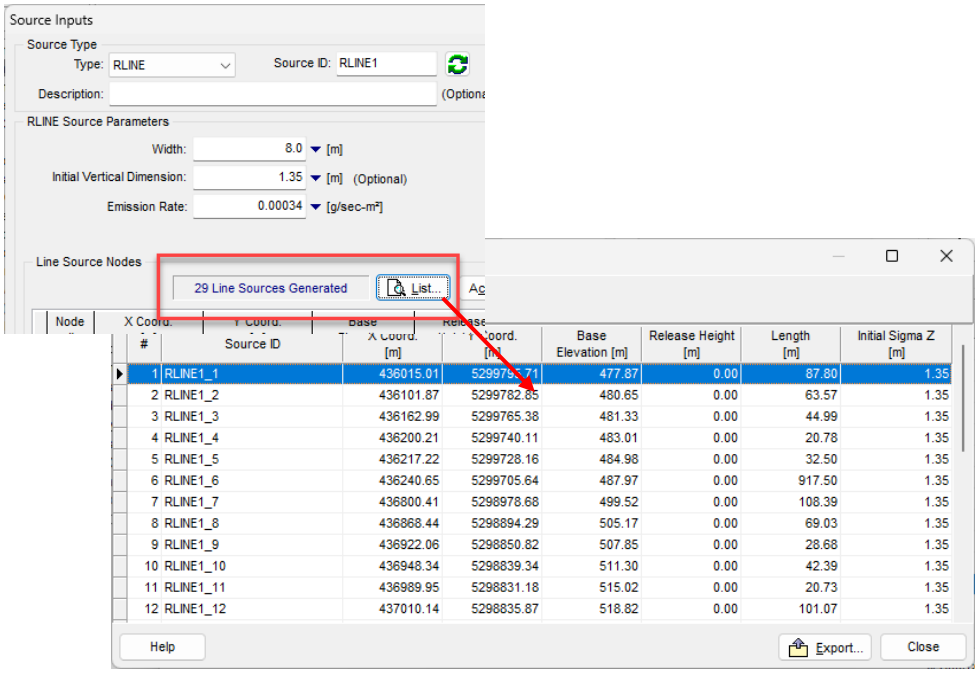
Control Pathway	**Updates to Regulatory Default Options (24142)** Following the promulgation of the latest update to the *Guideline on Air Quality Models (Appendix W to 40 CFR Part 51)*, the following model options have been elevated to AERMOD's regulatory default (**DFAULT**) settings: • **RLINE** mobile source type • **Generic Reaction Set Method (GRSM)** NOX to NO2 Tier 3 conversion method • Meteorology prepared using the **Coupled Ocean Atmosphere Response Experiment (COARE)** algorithms in AERMET for calculating marine / overwater boundary layer parameters. These options existed in prior releases of AERMOD View as non-default selections invoking the BETA model keyword.
Source Pathway	**Added Source Tables to the RLINE & RLINEXT Sources** The RLINE & RLINEXT Source Inputs dialogs now feature tables displaying the model input parameters for the generated sources along the user-drawn polyline. The tables can be exported to CSV format for easy QA.  | #	Source ID	X Coord. [m]	Y Coord. [m]	Base Elevation [m]	Release Height [m]	Length [m]	Initial Sigma Z [m]
---	---	---	---	---	---	---	---
1	RLINE1_1	436015.01	5299795.71	477.87	0.00	87.80	1.35
2	RLINE1_2	436101.87	5299782.85	480.65	0.00	63.57	1.35
3	RLINE1_3	436162.99	5299765.38	481.33	0.00	44.99	1.35
4	RLINE1_4	436200.21	5299740.11	483.01	0.00	20.78	1.35
5	RLINE1_5	436217.22	5299728.16	484.98	0.00	32.50	1.35
6	RLINE1_6	436240.65	5299705.64	487.97	0.00	917.50	1.35
7	RLINE1_7	436800.41	5298978.68	499.52	0.00	108.39	1.35
8	RLINE1_8	436868.44	5298894.29	505.17	0.00	69.03	1.35
9	RLINE1_9	436922.06	5298850.82	507.85	0.00	28.68	1.35
10	RLINE1_10	436948.34	5298839.34	511.30	0.00	42.39	1.35
11	RLINE1_11	436989.95	5298831.18	515.02	0.00	20.73	1.35
12	RLINE1_12	437010.14	5298835.87	518.82	0.00	101.07	1.35

Topic	Feature Description
Output	**Support for Overlapping Flagpole Receptors** For projects containing overlapping receptors with unique heights above ground (flagpole heights), the following enhancements have been made: • Contours are based on the maximum concentration from the overlapping receptors. • Posting values only display the maximum concentration at a specific X,Y coordinate. • When exporting data from the **Plot File Grid View**, the Discrete Receptor ID will display the proper Group Name for each unique flagpole height.

Fixed Issues

Topic	Feature Description
Preferences	**Removed WordPad from System Editor Settings** The System Editor selection no longer includes MS WordPad following its removal from Windows 11 by Microsoft. The default editor is now MS Notepad. Users can still define User-Specified editors.
Control Pathway	**NO2-Specific Option Cleared** The NOMINO3 keyword associated with the NO2 pollutant ID was not properly removed from the model input file (CO MODELOPT) if the pollutant ID was changed to a non-NO2 selection. This has been addressed.
Source Pathway	**Paste Error When Copying Line Volume Sources** When existing Line Volume sources are copied, the paste function resulted in a “Key violation” error. This has been addressed.

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