

2017 AirToxScreen Emissions Updates (as of August 2, 2022)

Emissions for the sources listed below have changed since EPA completed the modeling step of the AirToxScreen analysis. This list includes sources with:

- known changes to emissions that occurred *after 2017* (and therefore are not reflected in AirToxScreen),
- changes that EPA incorporated into the AirToxScreen results via post-modeling corrections, and
- recent corrections to 2017 emissions that are *not* reflected in the AirToxScreen results.

1. Known changes to Emissions that occurred after year 2017

AirToxScreen reflects emissions in 2017. The following facilities have had reductions, corrections, or elimination of emissions since 2017. There are additional shutdowns that have occurred, the ones listed here have been featured on the AirToxScreen Mapping Tool. This should be considered in your use of AirToxScreen to prioritize pollutants or sources for further study.

Facility Shutdowns:

EPA Region	State	County	EIS Facility ID	Facility Name	Emissions by pollutant (year 2017 tons)
4	NC	Surry Co	8514411	Duvaltex, Inc.	Chromium (VI) 2.19E-02, Acetaldehyde 5.04E-05, Carbon Tetrachloride 1.65E-07, Benzene 6.46E-05, Formaldehyde 6.05E-03, and others of less significance.
4	SC	Lancaster Co	6519311	Duracell International	Manganese 1.16E+00, Toluene 1.80E+00
4	SC	Mc Cormick Co	3795211	Georgia-Pacific Wood Products LLC (McCormick Sawmill)	Acetaldehyde 1.94E+00, Carbon Tetrachloride 5.99E-04, Benzene 5.18E-01, Formaldehyde 3.10E+00, and others of less significance
5	IL	Cook Co	2783011	Clybourn Metal Finishing Co	Trichloroethylene 4.03E+00
5	IL	Kane Co	1910611	Pamarco Inc	Chromium (VI) 5.23E-01
5	IL	Du Page Co	3219211	Sterigenics US LLC	Ethylene Oxide 2.30E+00, and others of less significance
5	MN	Ramsey Co	7029211	Viking Drill & Tool Inc	Trichloroethylene 1.08E+01
5	OH	Cuyahoga Co	8251111	M.P.C. Plating, Inc. (1318000838)	Chromium (VI) 8.09E-02, Nickel 2.14E-01, Trichloroethylene 4.62E+00

EPA Region	State	County	EIS Facility ID	Facility Name	Emissions by pollutant (year 2017 tons)
5	WI	Milwaukee Co	6273411	AMERICAS BEST QUALITY COATINGS CORP	Chromium (VI) 1.55E-04, Nickel 1.70E-02
6	TX	Harris Co	4058511	GREENS BAYOU PLANT	Chromium (VI) 4.83E-06, Naphthalene 1.31E-04, Acetaldehyde 1.16E-04, Carbon Tetrachloride 2.27E+00, Benzene 7.49E-04, Formaldehyde 1.90E-03, and others of less significance
7	MO	St Louis	6124311	MARQUETTE TOOL AND DIE	Trichloroethylene 3.83E+00
9	CA	Los Angeles Co	5786211	TORRANCE REFINERY	Nickel 2.15E-01, Naphthalene 1.17E+00, Benzene 2.20E+00, PAH/POM and others of less significance.
9	NV	Washoe Co	5161011	SCHLOSSER FORGE CO-VIKING	Cobalt 4.50E-02, Chromium (VI) 4.00E-03, Nickel 2.35E-01

Unit Shutdowns:

EPA Region	State	EIS Facility ID	Facility Name	Unit Description	ethylene oxide modeled (Year 2017 Tons)
5	IL	4613911	Christ Hospital & Medical Center	Ethylene oxide sterilizers removed March 2019	0.286
5	IL	7299411	Evanston Hospital	Ethylene oxide sterilizers removed April 2021	0.0187
5	IL	8016811	Memorial Medical Center	Ethylene oxide sterilizers removed February 2020	0.0600
5	IL	3340511	Swedish Covenant Hospital	Ethylene oxide sterilizers removed January 2019	0.0540
5	IL	5528111	Baxter Healthcare Corp	Ethylene oxide sterilizers shutdown April 2019 and removed December 2019	0.439
5	IL	4707411	Red Bud Regional Hospital	Ethylene oxide sterilizers removed January 2019	0.0130
5	MI	4173711	Viant Medical Inc.	Ethylene oxide - Viant Medical has signed a consent order to stop sterilizing medical devices using ethylene oxide (EtO) at its plant in Grand Rapids, Mich. by Dec. 31, 2020	0.925

EPA Region	State	EIS Facility ID	Facility Name	Unit Description	ethylene oxide modeled (Year 2017 Tons)
5	MI	5888411	Centurion Medical Products	Ethylene oxide - Stopped ethylene oxide sterilization by end of Oct 2021	0.152
9	CA	1572311	ST. JOHNS REGIONAL MEDICAL CENTER	Ethylene oxide sterilizer equipment permanently removed	0
9	AZ	1013511	Centurion Medical Products	Ethylene oxide – stopped ethylene oxide sterilization by Nov 2021	0.49

Additional Emission Corrections:

- Colorado: Terumo Sterilization – Lakewood (EIS Facility ID: 3832911) installed controls for ethylene oxide fugitive emissions in 2018.
- Florida: American Contract Systems, Inc installed ethylene oxide controls after year 2017.
- Florida: Fort Myers Facility installed ethylene oxide controls after year 2017.
- Georgia: Sterigenics U.S. LLC (EIS Facility ID: 3699811) ethylene oxide emission controls installed after year 2017.
- Georgia: Sterilization Services of Georgia (EIS Facility ID: 4315911) ethylene oxide emission controls installed after year 2017.
- Georgia: Becton Dickinson (EIS Facility ID: 2686511) ethylene oxide emission controls installed after year 2017.
- Georgia: BD (Becton. Dickinson and Company) (EIS Facility ID: 17953911) ethylene oxide emission controls installed after year 2017.
- Georgia: BD Global Distribution Center (EIS Facility ID: 18922211) installed ethylene oxide controls after year 2017.
- Illinois: Medline Industries Inc, Northpoint Services Division (EIS Facility ID: 8140511) installed ethylene oxide emission controls and CEMS in 2019.
- Illinois: Vantage Specialties Inc (EIS Facility ID: 5011811) installed additional ethylene oxide controls, established enhanced LDAR, and installed CEMS.
- Illinois: Pelron Corp (EIS Facility ID: 3213711) emission estimate improvement through voluntary stack test and leak detection.
- Indiana: Cook, Incorporated (EIS Facility ID: 4553311) ethylene oxide emission controls installed after year 2017.
- Iowa: American Contract Systems, Inc installed ethylene oxide controls in 2021.
- Louisiana: Denka Performance Elastomer LLC (EIS Facility ID: 17640111) installed chloroprene emissions controls systems in 2018.
- Minnesota: Steris Inc., (EIS Facility ID: 6449011), installed control for ethylene oxide 7/2021.
- Missouri: Midwest Sterilization Corp-Jackson (EIS Facility ID: 7703311) ethylene oxide emission controls installed after year 2017.

- North Carolina: Andersen Products, Inc (EIS Facility ID: 13453111) discontinued use of ethylene oxide on December 31, 2020.
- Ohio: American Contract Systems, Inc installed control for ethylene oxide 4/2021.
- Texas: Midwest Sterilization Corp (EIS Facility ID: 9061511) ethylene oxide emission controls installed after year 2017.
- Texas: Ethicon Inc (EIS Facility ID: 6755311) ethylene oxide emission controls installed after year 2017.
- Wisconsin: Evonik Corp (EIS Facility ID: 4953611) ethylene oxide emissions reduced since 2019 on a voluntary basis with refined emission calculations, removal of equipment, installation of emission reducing components, and implementing an enhanced leak detection and repair program.

2. Changes from 2017 NEI – incorporated into the results via post-modeling corrections, after modeling was done

- Alaska: Residential Wood Combustion risk adjusted due to updated emissions ratios. The modeling performed was based on the April 2020 version of the 2017 non-point emissions. Significant changes to residential wood combustion emissions in Alaska were applied to the January 2021 version of the 2017 non-point emissions inventory. The post modeling adjustment reflected these changes by adjusting the risk proportional to the ratio of emissions (January 2021 version / April 2020 version) to each pollutant.
- North Carolina: Risk and emissions from benzidine is zero at the Bridgestone Tire Facility in Oxford, NC (EIS Facility ID: 8084711)
- Pennsylvania: Children’s Hospital of PGH/Lawrenceville (EIS Facility ID: 8520911), reduced EtO emissions by a factor of 10 due to corrected control efficiency.
- Pennsylvania: Custom Processing Services in Montgomery County PA (EIS Facility ID: 17598811), reduced hexavalent chromium emissions based on updated TRI emissions
- Texas: Risk at the NovoSci Sterilization facility in Conroe, TX was set to zero due to the facility reported closing in 2015

3. Corrections to 2017 emissions that are not reflected in the AirToxScreen results

These corrections were identified in our final stages of QA/QC of the AirToxScreen information, and therefore EPA could not include them in the AirToxScreen results. Please consider this list in your use of AirToxScreen to prioritize pollutants or sources for further study.

- Minnesota: Beltrami and Rice counties, risks and emissions from the nonpoint Residential Wood Combustion (RWC) source are overestimated for 2017. The correct 2017 emissions are 0.41 times the values presented in AirToxScreen for Beltrami County and 0.25 times the values for Rice County. Corrected risks would be lower by the same ratios for these counties.
- West Virginia: Union Carbide Corp – South Charleston Facility (EIS Facility ID: 5782311) emitted 709 lbs of ethylene oxide in 2017.

- Wisconsin: American Contract Systems, Inc. (EIS Facility ID: 18988311) was inadvertently omitted from modeling. Facility ceased operations in Dec 2021. The facility emitted approximately 70lbs of EtO in 2017.

4. Minor corrections that did not impact resulting concentrations or risks

- Emissions at Facility ID ACSTEMPLETERRACE were modeled at the correct location in Hillsborough County, Florida. However, the FIPS code and State were mistakenly assigned to 33011 Hillsborough County New Hampshire in the following two files: point_fac_2017_emissions.xlsx and AirToxScreen_2017_Emissions_County_Sourcegroup.accdb. On August 2, 2022, the FIPS code and state for these emissions were corrected in these files on the 2017 AirToxScreen website.