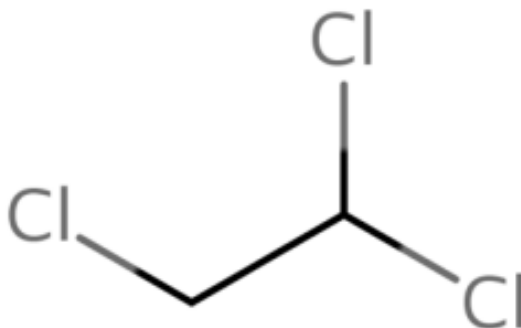

**Draft Data Extraction Information for
General Population, Consumer, and Environmental Exposure for
1,1,2-Trichloroethane**

Systematic Review Support Document for the Draft Risk Evaluation

CASRN: 79-00-5



May 2026

This supplemental file contains information regarding the data extraction results for data sources that met the PECO screening criteria for the *Draft Chemistry, Fate, Release, and Exposure Assessment for 1,1,2-Trichloroethane*. EPA performs data extraction as part of the TSCA systematic review process described in the *Draft Systematic Review Protocol Supporting TSCA Risk Evaluations for Chemical Substances*. The systematic review steps are further described in the *Draft Systematic Review Protocol for 1,1,2-Trichloroethane*.

EPA conducted data quality evaluation and extraction based on author-reported descriptions and results; additional analyses (e.g., statistical analyses) potentially conducted by EPA are not contained in this supplemental file. The data extraction results herein are organized by evidence streams and media types. A reference may contain data for multiple evidence streams and/or media types and will be cited in different tables if appropriate. The media type “All Applicable Media” refers to modeled doses or intakes calculated from human biomonitoring data (e.g., urine, blood, etc.) or when the media specific to the modeled route (e.g., inhalation, oral, etc.) are not clearly defined. In the data extraction results, “POINT VALUE(S)” denotes when the author(s) did not report a minimum, maximum, mean, or any other summary statistics, but rather single reported level(s) (e.g., chemical concentration). Summary statistic values that were less than the analytical limit were substituted with “0,” “ND,” “<LOD,” and “<LOQ,” as reported by the study. *Draft Systematic Review Protocol for 1,1,2-Trichloroethane*.

Acronyms and abbreviations used within this supplemental file are defined in the table at the end of this file. The two letter country codes defined herein are consistent with those used in the searchable International Standardization Organization (ISO) 3166 standard for country codes. Finally, “NR” preceding a country code indicates that the author(s) did not report the city, state and region. This supplemental file may also be referred to as the *Draft Data Extraction Information for General Population, Consumer, and Environmental Exposure for 1,1,2-Trichloroethane*.

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Table 1: Data Extraction Tables of Exposure Monitoring Studies for Ambient Air

Citation Information	Site and Data Description	Limit (LOD/LOQ)	Min	Max	Mean	Percentile	Variance
Gallego et al. 2016 HERO ID: 3449325 <i>OQD:</i> High	Barcelona, Catalonia, ES Scenario: Ambient air in the Chimney of Waste Treatment Plant 2- TCA (n = 12; DF = 1; Sampling Period: Jul., 2014 - Sept., 2014)	LOD: .01 µg/mL LOQ: Not Reported	0.1 µg/Nm ³	3 µg/Nm ³	1 µg/Nm ³ (AM)	NR	1 µg/Nm ³ (ASD)
Gallego et al. 2016 HERO ID: 3449325 <i>OQD:</i> High	Barcelona, Catalonia, ES Scenario: Ambient air at Site 8 near Waste Treatment Plant 2- TCA (n = 9; DF = 1; Sampling Period: Jan., 2015 - Feb., 2015)	LOD: .01 µg/mL LOQ: Not Reported	NR	NR	0.04 µg/Nm ³ (AM)	NR	0.02 µg/Nm ³ (ASD)
Gallego et al. 2016 HERO ID: 3449325 <i>OQD:</i> High	Barcelona, Catalonia, ES Scenario: Ambient air at Site 7 near Waste Treatment Plant 2- TCA (n = 8; DF = 1; Sampling Period: Jan., 2015 - Feb., 2015)	LOD: .01 µg/mL LOQ: Not Reported	NR	NR	0.03 µg/Nm ³ (AM)	NR	0.02 µg/Nm ³ (ASD)
Gallego et al. 2016 HERO ID: 3449325 <i>OQD:</i> High	Barcelona, Catalonia, ES Scenario: Ambient air at Site 9 near Waste Treatment Plant 2- TCA (n = 9; DF = 1; Sampling Period: Jan., 2015 - Feb., 2015)	LOD: .01 µg/mL LOQ: Not Reported	NR	NR	0.04 µg/Nm ³ (AM)	NR	0.02 µg/Nm ³ (ASD)
Gallego et al. 2016 HERO ID: 3449325 <i>OQD:</i> High	Barcelona, Catalonia, ES Scenario: Ambient air at Site 6 near Waste Treatment Plant 2- TCA (n = 7; DF = 1; Sampling Period: Jan., 2015 - Feb., 2015)	LOD: .01 µg/mL LOQ: Not Reported	NR	NR	0.03 µg/Nm ³ (AM)	NR	0.01 µg/Nm ³ (ASD)
Gallego et al. 2016 HERO ID: 3449325 <i>OQD:</i> High	Barcelona, Catalonia, ES Scenario: Ambient air at Site 10 near Waste Treatment Plant 2- TCA (n = 8; DF = 1; Sampling Period: Jan., 2015 - Feb., 2015)	LOD: .01 µg/mL LOQ: Not Reported	NR	NR	0.02 µg/Nm ³ (AM)	NR	0.01 µg/Nm ³ (ASD)
Huang et al. 2019 HERO ID: 5431563 <i>OQD:</i> High	Xi'an, northwest China, CN Scenario: Air outside of dwellings in northwest China (n = 37; DF = NR; Sampling Period: Nov., 2016 - Feb., 2017)	LOD: 0.1-0.158 ppbv LOQ: Not Reported	NR	NR	0.02 µg/m ³ (AM)	NR	- µg/m ³ (ASD)
Logue et al. 2010 HERO ID: 1255270 <i>OQD:</i> High	Pittsburgh, PA, US Scenario: 24-hr average; samples collected via Summa canisters from downtown residential area with high traffic (Flag Plaza site) (n = 122; DF = 0; Sampling Period: Feb., 2006 - Jan., 2008)	LOD: Not Reported LOQ: Not Reported	NR	NR	0 µg/m ³ (AM)	NR	NR
Logue et al. 2010 HERO ID: 1255270 <i>OQD:</i> High	Pittsburgh, PA, US Scenario: 24-hr average; samples collected via Summa canisters from suburban residential area air located 0.8 km from chemical and industrial facilities (Stowe site) (n = 122; DF = 0; Sampling Period: Feb., 2006 - Jan., 2008)	LOD: Not Reported LOQ: Not Reported	NR	NR	0 µg/m ³ (AM)	NR	NR

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Table 1 – continued from previous page

Citation Information	Site and Data Description	Limit (LOD/LOQ)	Min	Max	Mean	Percentile	Variance
Logue et al. 2010 HERO ID: 1255270 <i>OQD:</i> High	Pittsburgh, PA, US Scenario: 24-hr average; samples collected via Summa canisters from suburban residential area considered a regional background site (South Fayette site) (n = 122; DF = 0; Sampling Period: Feb., 2006 - Jan., 2008)	LOD: Not Reported LOQ: Not Reported	NR	NR	0 $\mu\text{g}/\text{m}^3$ (AM)	NR	NR
Logue et al. 2010 HERO ID: 1255270 <i>OQD:</i> High	Pittsburgh, PA, US Scenario: 24-hr average; samples collected via Summa canisters from suburban residential area located 0.8 km from chemical and industrial facilities (Avalon site) (n = 122; DF = 0; Sampling Period: Feb., 2006 - Jan., 2008)	LOD: Not Reported LOQ: Not Reported	NR	NR	<LOD	NR	NR
Juang et al. 2009 HERO ID: 1444237 <i>OQD:</i> Medium	South, Fong Shan Stream, TW Scenario: Air near a heavily polluted stream (n = 40; DF = <1; Sampling Period: Aug., 2004 - Jul., 2005)	LOD: 0.001 $\mu\text{g}/\text{m}^3$ LOQ: Not Reported	ND	238.400 $\mu\text{g}/\text{m}^3$	27.749 $\mu\text{g}/\text{m}^3$ (AM)	NR	52.484 $\mu\text{g}/\text{m}^3$ (ASD)
Ras-Mallorqui et al. 2007 HERO ID: 2443817 <i>OQD:</i> High	Tarragona Region, ES Scenario: Ambient air from industrialized area close to a petrol refinery (n = 3; DF = 0; Sampling Period: Dec., 2005 - Jan., 2006)	LOD: 0.1 $\mu\text{g}/\text{m}^3$ LOQ: 0.17 $\mu\text{g}/\text{m}^3$	NR	NR	ND	NR	NR
Ras-Mallorqui et al. 2007 HERO ID: 2443817 <i>OQD:</i> High	Tarragona Region, ES Scenario: Ambient air from industrialized area in the periphery of the South industrial complex (near low traffic road) (n = 3; DF = 0; Sampling Period: Dec., 2005 - Jan., 2006)	LOD: 0.1 $\mu\text{g}/\text{m}^3$ LOQ: 0.17 $\mu\text{g}/\text{m}^3$	NR	NR	ND	NR	NR
Ras-Mallorqui et al. 2007 HERO ID: 2443817 <i>OQD:</i> High	Tarragona Region, ES Scenario: Ambient air from industrialized area inside the South industrial complex (away from roads) (n = 3; DF = 0; Sampling Period: Dec., 2005 - Jan., 2006)	LOD: 0.1 $\mu\text{g}/\text{m}^3$ LOQ: 0.17 $\mu\text{g}/\text{m}^3$	NR	NR	ND	NR	NR
Ras-Mallorqui et al. 2007 HERO ID: 2443817 <i>OQD:</i> High	Tarragona Region, ES Scenario: Ambient air from urban area of Imperial Tarraco Square (high traffic) (n = 6; DF = 0; Sampling Period: Dec., 2005 - Jan., 2006)	LOD: 0.1 $\mu\text{g}/\text{m}^3$ LOQ: 0.17 $\mu\text{g}/\text{m}^3$	NR	NR	ND	NR	NR
Ras-Mallorqui et al. 2007 HERO ID: 2443817 <i>OQD:</i> High	Tarragona Region, ES Scenario: Ambient air from urban area of Pla de la Seu (historical center, closed to traffic) (n = 6; DF = 0; Sampling Period: Dec., 2005 - Jan., 2006)	LOD: 0.1 $\mu\text{g}/\text{m}^3$ LOQ: 0.17 $\mu\text{g}/\text{m}^3$	NR	NR	ND	NR	NR
Ras-Mallorqui et al. 2007 HERO ID: 2443817 <i>OQD:</i> High	Tarragona Region, ES Scenario: Ambient air from urban area of Rambla Nova (commercial and residential, low traffic) (n = 6; DF = 0; Sampling Period: Dec., 2005 - Jan., 2006)	LOD: 0.1 $\mu\text{g}/\text{m}^3$ LOQ: 0.17 $\mu\text{g}/\text{m}^3$	NR	NR	ND	NR	NR

Table 2: Data Extraction Tables of Exposure Monitoring Studies for Drinking Water

Citation Information	Site and Data Description	Limit (LOD/LOQ)	Min	Max	Mean	Percentile	Variance
Kingsbury et al. 2008 HERO ID: 3364193 <i>OQD:</i> High	Clackamas River, OR; Truckee River, CA; Cache la Poudre River, CO; Elm Fork Trinity River, TX; Chattahoochee River, GA; White River, IN; Potomac River, VA; Running Gutter Brook, MA; Neuse River, NC, US Scenario: Source drinking water (plant intake) samples at United States CWS - Oct 2002-March 2004 (n = 147; DF = 0; Sampling Period: Oct., 2002 - Mar., 2004)	LOD: 0.04 µg/L LOQ: Not Reported	NR	NR	ND	NR	NR
Bugher et al. 2024 HERO ID: 12795200 <i>OQD:</i> High	Ritchie, Doddridge, Tyler, Marshall and Wetzel counties, West Virginia, US Scenario: Groundwater from domestic drinking water wells in Appalachian WV hydraulic fracturing activity area (n = 56; DF = 0; Sampling Period: Oct., 2020)	LOD: 0.08 µg/L LOQ: Not Reported	NR	NR	<LOD	NR	NR
Bugher et al. 2024 HERO ID: 12795200 <i>OQD:</i> High	Belmont and Monroe counties, OH, US Scenario: Groundwater from domestic drinking water wells in Appalachian OH hydraulic fracturing activity area (n = 162; DF = 0; Sampling Period: Jun., 2019 - Aug., 2019)	LOD: 0.08 µg/L LOQ: Not Reported	NR	NR	<LOD	NR	NR
Bugher et al. 2024 HERO ID: 12795200 <i>OQD:</i> High	Bradford, PA, US Scenario: Groundwater from domestic drinking water wells in Appalachian PA hydraulic fracturing activity area (n = 89; DF = 0; Sampling Period: Aug., 2018 - Sept., 2018)	LOD: 0.08 µg/L LOQ: Not Reported	NR	NR	<LOD	NR	NR
Hopple et al. 2009 HERO ID: 3975066 <i>OQD:</i> High	Various locations, US Scenario: Finished water from principal aquifers across the United States (n = 71; DF = 0; Sampling Period: Jun., 2004 - Sept., 2005)	LOD: Not Reported LOQ: 0.04 µg/L	NR	NR	ND	NR	NR

Table 3: Data Extraction Tables of Exposure Monitoring Studies for Groundwater

Citation Information	Site and Data Description	Limit (LOD/LOQ)	Min	Max	Mean	Percentile	Variance
Schrab et al. 1993 HERO ID: 661846 <i>OQD:</i> Low	Eastern, US Scenario: Groundwater (G-3) near municipal solid waste landfill (n = 3; DF = 0; Sampling Period: 1993)	LOD: Not Reported LOQ: Not Reported	NR	NR	Trace μg/L (AM)	NR	NR
Sabel et al. 1984 HERO ID: 724484 <i>OQD:</i> Medium	Minnesota, US Scenario: Groundwater from landfill sites with suggested leachate contamination (n = 13; DF = 0.08; Sampling Period: 1984)	LOD: Not Reported LOQ: Not Reported	7.7 μg/L	31 μg/L	NR	NR	NR
Sabel et al. 1984 HERO ID: 724484 <i>OQD:</i> Medium	Minnesota, US Scenario: Groundwater from landfill sites with unknown or good water quality (n = 7; DF = 0; Sampling Period: 1984)	LOD: Not Reported LOQ: Not Reported	NR	NR	ND	NR	NR
Enwright Associates et al. 1985 HERO ID: 1335577 <i>OQD:</i> Medium	Virginia, US Scenario: Groundwater from Allied Corporation, Chesterfield Plant (n = 20; DF = 0.05; Sampling Period: Feb., 1984)	LOD: 0.5 μg/L LOQ: Not Reported	NR	0.5 μg/L	NR	NR	NR
Westinghouse Savannah River Company et al. 1997 HERO ID: 1740826 <i>OQD:</i> Medium	South Carolina, US Scenario: Groundwater monitoring wells in a landfill (nondetects excluded) (n = 336; DF = 0.007; Sampling Period: 1995 - 1996)	LOD: 0.05-10 μg/L LOQ: Not Reported	NR	0.09 μg/L	NR	NR	NR
Williams et al. 1984 HERO ID: 5096383 <i>OQD:</i> Medium	Canada, CA Scenario: Groundwater from monitoring wells (A-J) upgradient municipal and industrial waste landfill sites (n = 8; DF = 0.375; Sampling Period: May, 1982 - Jun., 1982)	LOD: Not Reported LOQ: Not Reported	POINT VALUE(S): [0.6 μg/L; ND; ND; ND; ND; ND; 1.1 μg/L; 0.5 μg/L]				
Williams et al. 1984 HERO ID: 5096383 <i>OQD:</i> Medium	Canada, CA Scenario: Groundwater from monitoring wells (A) downgradient municipal and industrial waste landfill sites (n = 2; DF = 0.5; Sampling Period: May, 1982 - Jun., 1982)	LOD: Not Reported LOQ: Not Reported	POINT VALUE(S): [ND; 0.4 μg/L]				
Williams et al. 1984 HERO ID: 5096383 <i>OQD:</i> Medium	Canada, CA Scenario: Groundwater from monitoring wells (B) downgradient municipal and industrial waste landfill sites (n = 3; DF = 0.3333; Sampling Period: May, 1982 - Jun., 1982)	LOD: Not Reported LOQ: Not Reported	POINT VALUE(S): [ND; ND; 0.5 μg/L]				
Williams et al. 1984 HERO ID: 5096383 <i>OQD:</i> Medium	Canada, CA Scenario: Groundwater from monitoring wells (C) downgradient municipal and industrial waste landfill sites (n = 2; DF = 0.5; Sampling Period: May, 1982 - Jun., 1982)	LOD: Not Reported LOQ: Not Reported	POINT VALUE(S): [ND; 0.8 μg/L]				

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Citation Information	Site and Data Description	Limit (LOD/LOQ)	Min	Max	Mean	Percentile	Variance
Williams et al. 1984 HERO ID: 5096383 <i>OQD:</i> Medium	Canada, CA Scenario: Groundwater from monitoring wells (D-E) down-gradient municipal and industrial waste landfill sites (n = 2; DF = 0; Sampling Period: May, 1982 - Jun., 1982)	LOD: Not Reported LOQ: Not Reported	NR	NR	ND	NR	NR
Williams et al. 1984 HERO ID: 5096383 <i>OQD:</i> Medium	Canada, CA Scenario: Groundwater from monitoring wells (F) downgradient municipal and industrial waste landfill sites (n = 3; DF = 0; Sampling Period: May, 1982 - Jun., 1982)	LOD: Not Reported LOQ: Not Reported	NR	NR	ND	NR	NR
Williams et al. 1984 HERO ID: 5096383 <i>OQD:</i> Medium	Canada, CA Scenario: Groundwater from monitoring wells (G) downgradient municipal and industrial waste landfill sites (n = 2; DF = 0; Sampling Period: May, 1982 - Jun., 1982)	LOD: Not Reported LOQ: Not Reported	NR	NR	ND	NR	NR
Williams et al. 1984 HERO ID: 5096383 <i>OQD:</i> Medium	Canada, CA Scenario: Groundwater from monitoring wells (H) downgradient municipal and industrial waste landfill sites (n = 2; DF = 0; Sampling Period: May, 1982 - Jun., 1982)	LOD: Not Reported LOQ: Not Reported	NR	NR	ND	NR	NR
Williams et al. 1984 HERO ID: 5096383 <i>OQD:</i> Medium	Canada, CA Scenario: Groundwater from monitoring wells (I) downgradient municipal and industrial waste landfill sites (n = 2; DF = 0; Sampling Period: May, 1982 - Jun., 1982)	LOD: Not Reported LOQ: Not Reported	NR	NR	ND	NR	NR
Williams et al. 1984 HERO ID: 5096383 <i>OQD:</i> Medium	Canada, CA Scenario: Groundwater from monitoring wells (J) downgradient municipal and industrial waste landfill sites (n = 2; DF = 0; Sampling Period: May, 1982 - Jun., 1982)	LOD: Not Reported LOQ: Not Reported	NR	NR	ND	NR	NR
Williams et al. 1984 HERO ID: 5096383 <i>OQD:</i> Medium	Canada, CA Scenario: Groundwater from monitoring wells at municipal and industrial waste landfill sites (n = 1; DF = NR; Sampling Period: May, 1982 - Jun., 1982)	LOD: Not Reported LOQ: Not Reported	NR	NR	NR	NR	NR
Roy F. Weston Inc et al. 1986 HERO ID: 5436115 <i>OQD:</i> Medium	Burlington, VT, US Scenario: Groundwater from Construction Landfill at Burlington Air National Guard Base (n = 8; DF = 0; Sampling Period: Sept., 1984)	LOD: 5-50 µg/L LOQ: Not Reported	NR	NR	<LOD	NR	NR
Buzska et al. 1987 HERO ID: 5436763 <i>OQD:</i> Medium	Bexar county, Texas, US Scenario: Groudwater from Austin Group Aquifer wells near abandoned West Avenue Landfill with known contamination (n = 8; DF = 0; Sampling Period: 1982 - 1984)	LOD: Not Reported LOQ: Not Reported	<LOD	<LOD	NR	25th: <LOD; 50th: <LOD; 75th: <LOD; 90th: <LOD;	NR
Heck et al. 1992 HERO ID: 5438509 <i>OQD:</i> Medium	Reno County, Kansas, US Scenario: Groundwater from private wells near Reno County Landfill (n = 5; DF = 0; Sampling Period: Aug., 1990)	LOD: Not Reported LOQ: 0.2 µg/L	NR	NR	<LOQ	NR	NR

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Table 3 – continued from previous page

Citation Information	Site and Data Description	Limit (LOD/LOQ)	Min	Max	Mean	Percentile	Variance
Heck et al. 1992 HERO ID: 5438509 <i>OQD:</i> Medium	Reno County, Kansas, US Scenario: Groundwater from monitoring wells near Reno County Landfill (n = 8; DF = 0; Sampling Period: Aug., 1990)	LOD: Not Reported LOQ: 0.2 µg/L	NR	NR	<LOQ	NR	NR
Bigsby et al. 1989 HERO ID: 5449639 <i>OQD:</i> Uninformative	Near Junction City in northeast Kansas (Geary County), US Scenario: Groundwater upgradient of Geary county landfill (n = 1; DF = 0; Sampling Period: Oct., 1988 - Sept., 1988)	LOD: 0.5 µg/L LOQ: Not Reported	POINT VALUE(S): [<LOD]				
Bigsby et al. 1989 HERO ID: 5449639 <i>OQD:</i> Uninformative	Near Junction City in northeast Kansas (Geary County), US Scenario: Groundwater downgradient of Geary county landfill (n = 6; DF = 0; Sampling Period: Oct., 1988 - Sept., 1988)	LOD: 0.5 µg/L LOQ: Not Reported	NR	NR	<LOD	NR	NR
Hopple et al. 2009 HERO ID: 3975066 <i>OQD:</i> High	Various locations, US Scenario: Groundwater from principal aquifers across the United States (n = 221; DF = 0.005; Sampling Period: Oct., 2002 - Jul., 2005)	LOD: Not Reported LOQ: 0.04 µg/L	NR	0.08 µg/L	NR	NR	NR
Hopple et al. 2009 HERO ID: 3975066 <i>OQD:</i> High	Various locations, US Scenario: Source water (resampled) from principal aquifers across the United States (n = 71; DF = 0; Sampling Period: Jun., 2004 - Sept., 2005)	LOD: Not Reported LOQ: 0.04 µg/L	NR	NR	ND	NR	NR
Landmeyer et al. 2014 HERO ID: 5639273 <i>OQD:</i> High	McBee, SC, US Scenario: Ground water from agricultural-supply wells - 2011 (n = 5; DF = 0.2; Sampling Period: Aug., 2011)	LOD: Not Reported LOQ: 0.046 µg/L	POINT VALUE(S): [<LOD; <LOD; <LOD; 0.028 mg/L; <LOD]				

Table 4: Data Extraction Tables of Exposure Monitoring Studies for Human Biomonitoring

Citation Information	Site and Data Description	Limit (LOD/LOQ)	Min	Max	Mean	Percentile	Variance
Blount et al. 2010 HERO ID: 737432 <i>OQD:</i> Medium	Baltimore, MD, US Scenario: Single human milk convenience samples from 12 women, analyzed via SPME with GC/MS. (n = 12; DF = NR; Sampling Period: 2009)	LOD: Not Reported LOQ: Not Reported	NR	NR	NR	50th: Below LRL ng/mL;	NR

Table 5: Data Extraction Tables of Exposure Monitoring Studies for Indoor Air

Citation Information	Site and Data Description	Limit (LOD/LOQ)	Min	Max	Mean	Percentile	Variance
Huang et al. 2019 HERO ID: 5431563 <i>OQD:</i> High	Xi'an, northwest China, CN Scenario: Indoor air of dwellings in northwest China (n = 44; DF = NR; Sampling Period: Nov., 2016 - Feb., 2017)	LOD: 0.1-0.158 ppbv LOQ: Not Reported	NR	NR	0.2 $\mu\text{g}/\text{m}^3$ (AM)	NR	0.1 $\mu\text{g}/\text{m}^3$ (ASD)
Chin et al. 2014 HERO ID: 2443355 <i>OQD:</i> High	Detroit, MI, US Scenario: 7-day passive samples collected from 126 homes with children with asthma (n = 325; DF = 0.06; Sampling Period: Mar., 2009 - Sept., 2010)	LOD: 0.39 $\mu\text{g}/\text{m}^3$ LOQ: Not Reported	0.19 $\mu\text{g}/\text{m}^3$	4.47 $\mu\text{g}/\text{m}^3$	0.26 $\mu\text{g}/\text{m}^3$ (GM)	25th: 0.19 $\mu\text{g}/\text{m}^3$; 50th: 0.19 $\mu\text{g}/\text{m}^3$; 75th: 0.19 $\mu\text{g}/\text{m}^3$; 90th: 0.19 $\mu\text{g}/\text{m}^3$; 95th: 0.48 $\mu\text{g}/\text{m}^3$;	0.41 $\mu\text{g}/\text{m}^3$ (ASD)
Li et al. 2019 HERO ID: 5736601 <i>OQD:</i> High	Quebec, Ontario, British Columbia, Atlantic, and Prairie Provinces, CA Scenario: 7-day passive samples collected from living rooms in 16 homes in Canadian Health Measures Survey (n = 3524; DF = 0.002; Sampling Period: Jan., 2012 - Dec., 2013)	LOD: 0.156 $\mu\text{g}/\text{m}^3$ LOQ: 0.11 $\mu\text{g}/\text{m}^3$	NR	8.7 $\mu\text{g}/\text{m}^3$	NR	NR	NR

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Monitoring

Other

Table 6: Data Extraction Tables of Exposure Monitoring Studies for Other

Citation Information	Site and Data Description	Limit (LOD/LOQ)	Min	Max	Mean	Percentile	Variance
Schrab et al. 1993 HERO ID: 661846 <i>OQD:</i> Low	Eastern, US Scenario: Leachate (L-2) from municipal solid waste landfill (n = 2; DF = 0.5; Sampling Period: 1993)	LOD: Not Reported LOQ: Not Reported	0 µg/L	5 µg/L	2.5 µg/L (AM)	NR	NR
Schrab et al. 1993 HERO ID: 661846 <i>OQD:</i> Low	Eastern, US Scenario: Leachate (L-3) from municipal solid waste landfill (n = 3; DF = 0.666; Sampling Period: 1993)	LOD: Not Reported LOQ: Not Reported	0 µg/L	24 µg/L	16 µg/L (AM)	NR	NR
Sabel et al. 1984 HERO ID: 724484 <i>OQD:</i> Medium	Minnesota, US Scenario: Leachates from municipal solid waste landfill leachate collection systems (n = 6; DF = 0; Sampling Period: 1984)	LOD: Not Reported LOQ: Not Reported	NR	NR	ND	NR	NR

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Monitoring

Soil

Table 7: Data Extraction Tables of Exposure Monitoring Studies for Soil

Citation Information	Site and Data Description	Limit (LOD/LOQ)	Min	Max	Mean	Percentile	Variance
Jang et al. 2001 HERO ID: 789748 <i>OQD:</i> Medium	Florida, US Scenario: Recovered soil fines from Site A, Trip 1 (n = 12; DF = 0.08; Sampling Period: 2001)	LOD: 5 µg/kg LOQ: Not Reported	NR	5.8 µg/kg	NR	NR	NR

Table 8: Data Extraction Tables of Exposure Monitoring Studies for Surface Water

Citation Information	Site and Data Description	Limit (LOD/LOQ)	Min	Max	Mean	Percentile	Variance
Enwright Associates et al. 1985 HERO ID: 1335577 <i>OQD:</i> Medium	Virginia, US Scenario: Raw intake water supplied to Allied Corporation, Chesterfield Plant (n = 6; DF = 0; Sampling Period: Feb., 1984)	LOD: 0.5 µg/L LOQ: Not Reported	NR	NR	ND	NR	NR
Ellis et al. 2007 HERO ID: 3544475 <i>OQD:</i> Medium	Birmingham, GB Scenario: River Tame surface water downstream the Birmingham Triassic sandstone aquifer effluent (n = 35; DF = 0.12; Sampling Period: 2001)	LOD: 0.1 µg/L LOQ: Not Reported	NR	109.58 µg/L	4.57 µg/L (AM)	NR	NR
Roy F. Weston Inc et al. 1986 HERO ID: 5436115 <i>OQD:</i> Medium	Burlington, VT, US Scenario: Surface water from Fire Department Training Area and old landfill at Burlington Air National Guard Base (n = 3; DF = 0; Sampling Period: Sept., 1984)	LOD: 5.0 µg/L LOQ: Not Reported	NR	NR	<LOD	NR	NR
Roy F. Weston Inc et al. 1986 HERO ID: 5436115 <i>OQD:</i> Medium	Burlington, VT, US Scenario: Surface Water from Construction Landfill at Burlington Air National Guard Base (n = 3; DF = 0; Sampling Period: Sept., 1984)	LOD: 5.0 µg/L LOQ: Not Reported	NR	NR	<LOD	NR	NR
Bigsby et al. 1989 HERO ID: 5449639 <i>OQD:</i> Uninformative	Near Junction City in northeast Kansas (Geary County), US Scenario: Surface water from Smokey Hill River (n = 3; DF = 0; Sampling Period: Sept., 1988)	LOD: 0.5 µg/L LOQ: Not Reported	NR	NR	<LOD	NR	NR
Hunt et al. 2007 HERO ID: 5438705 <i>OQD:</i> High	Sydney, AU Scenario: Surface water from centre of inner estuary (Site 9, pooled) (n = 5; DF = NR; Sampling Period: 2004 - 2005)	LOD: Not Reported LOQ: Not Reported	NR	NR	1.0 µg/L (AM)	NR	NR
Hunt et al. 2007 HERO ID: 5438705 <i>OQD:</i> High	Sydney, AU Scenario: Surface water from outer estuary at new boat ramp on southern shore (Site 8) (n = 13; DF = NR; Sampling Period: 2004 - 2005)	LOD: Not Reported LOQ: Not Reported	NR	NR	0.98 µg/L (AM)	NR	NR
Hunt et al. 2007 HERO ID: 5438705 <i>OQD:</i> High	Sydney, AU Scenario: Surface water from estuary at north shoreline (Site 7) (n = 9; DF = NR; Sampling Period: 2004 - 2005)	LOD: Not Reported LOQ: Not Reported	NR	NR	1.47 µg/L (AM)	NR	NR
Hunt et al. 2007 HERO ID: 5438705 <i>OQD:</i> High	Sydney, AU Scenario: Surface water from inner estuary at old boat ramp (Site 6) (n = 13; DF = NR; Sampling Period: 2004 - 2005)	LOD: Not Reported LOQ: Not Reported	NR	NR	6.44 µg/L (AM)	NR	NR
Hunt et al. 2007 HERO ID: 5438705 <i>OQD:</i> High	Sydney, AU Scenario: Surface water from Penrhyn estuary at discharge point of Floodvale Drain (Site 5) (n = 13; DF = NR; Sampling Period: 2004 - 2005)	LOD: Not Reported LOQ: Not Reported	NR	NR	3.75 µg/L (AM)	NR	NR

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1,1,2-Trichloroethane

Monitoring

Surface Water

Table 8 – continued from previous page

Citation Information	Site and Data Description	Limit (LOD/LOQ)	Min	Max	Mean	Percentile	Variance
Hunt et al. 2007 HERO ID: 5438705 <i>OQD:</i> High	Sydney, AU Scenario: Surface water from Upper Penrhyn Estuary (Site 4) (n = 13; DF = NR; Sampling Period: 2004 - 2005)	LOD: Not Reported LOQ: Not Reported	NR	NR	8.39 μg/L (AM)	NR	NR
Hunt et al. 2007 HERO ID: 5438705 <i>OQD:</i> High	Sydney, AU Scenario: Surface water from Penrhyn estuary at discharge point of Springvale Drain (Site 3) (n = 9; DF = NR; Sampling Period: 2004 - 2005)	LOD: Not Reported LOQ: Not Reported	NR	NR	23.6 μg/L (AM)	NR	NR
Hunt et al. 2007 HERO ID: 5438705 <i>OQD:</i> High	Sydney, AU Scenario: Surface water from an upstream source area of Floodvale Drain (Site 2) (n = 5; DF = NR; Sampling Period: 2004 - 2005)	LOD: Not Reported LOQ: Not Reported	NR	NR	11.8 μg/L (AM)	NR	NR
Hunt et al. 2007 HERO ID: 5438705 <i>OQD:</i> High	Sydney, AU Scenario: Surface water from an upstream source area of Springvale Drain (Site 1) (n = 13; DF = NR; Sampling Period: 2004 - 2005)	LOD: Not Reported LOQ: Not Reported	NR	NR	114.0 μg/L (AM)	NR	NR

Table 9: Data Extraction Tables of Exposure Monitoring Studies for Wastewater

Citation Information	Site and Data Description	Limit (LOD/LOQ)	Min	Max	Mean	Percentile	Variance
Bell et al. 1993 HERO ID: 658661 OQD: Medium	Ontario, CA Scenario: Wastewater off-gas from Skyway in Burlington - influent (n = 4; DF = NR; Sampling Period: 1993)	LOD: 1.0 $\mu\text{g}/\text{m}^3$ LOQ: Not Reported	NR	NR	53 $\mu\text{g}/\text{m}^3$ (AM)	NR	NR
Bell et al. 1993 HERO ID: 658661 OQD: Medium	Ontario, CA Scenario: Wastewater off-gas from Highland Creek in Metropolitan Toronto - influent (n = 4; DF = NR; Sampling Period: 1993)	LOD: 1.0 $\mu\text{g}/\text{m}^3$ LOQ: Not Reported	NR	NR	2588 $\mu\text{g}/\text{m}^3$ (AM)	NR	NR
Bell et al. 1993 HERO ID: 658661 OQD: Medium	Ontario, CA Scenario: Wastewater off-gas from Skyway in Burlington - effluent (n = 4; DF = NR; Sampling Period: 1993)	LOD: 1.0 $\mu\text{g}/\text{m}^3$ LOQ: Not Reported	NR	NR	53 $\mu\text{g}/\text{m}^3$ (AM)	NR	NR
Bell et al. 1993 HERO ID: 658661 OQD: Medium	Ontario, CA Scenario: Wastewater off-gas from Highland Creek in Metropolitan Toronto - effluent (n = 4; DF = NR; Sampling Period: 1993)	LOD: 1.0 $\mu\text{g}/\text{m}^3$ LOQ: Not Reported	NR	NR	2789 $\mu\text{g}/\text{m}^3$ (AM)	NR	NR
Bell et al. 1993 HERO ID: 658661 OQD: Medium	Ontario, CA Scenario: Wastewater off-gas from Skyway in Burlington - grit chamber (n = 4; DF = NR; Sampling Period: 1993)	LOD: 1.0 $\mu\text{g}/\text{m}^3$ LOQ: Not Reported	NR	NR	136 $\mu\text{g}/\text{m}^3$ (AM)	NR	NR
Bell et al. 1993 HERO ID: 658661 OQD: Medium	Ontario, CA Scenario: Wastewater off-gas from Highland Creek in Metropolitan Toronto - grit chamber (n = 4; DF = NR; Sampling Period: 1993)	LOD: 1.0 $\mu\text{g}/\text{m}^3$ LOQ: Not Reported	NR	NR	1436 $\mu\text{g}/\text{m}^3$ (AM)	NR	NR
Bell et al. 1993 HERO ID: 658661 OQD: Medium	Ontario, CA Scenario: Wastewater from Skyway in Burlington - influent (n = 4; DF = NR; Sampling Period: 1993)	LOD: 1.0 $\mu\text{g}/\text{m}^3$ LOQ: Not Reported	NR	NR	0.2 $\mu\text{g}/\text{L}$ (AM)	NR	NR
Bell et al. 1993 HERO ID: 658661 OQD: Medium	Ontario, CA Scenario: Wastewater from Highland Creek in Metropolitan Toronto - influent (n = 4; DF = NR; Sampling Period: 1993)	LOD: 1.0 $\mu\text{g}/\text{m}^3$ LOQ: Not Reported	NR	NR	3.1 $\mu\text{g}/\text{L}$ (AM)	NR	NR
Bell et al. 1993 HERO ID: 658661 OQD: Medium	Ontario, CA Scenario: Wastewater from Skyway in Burlington - effluent (n = 4; DF = NR; Sampling Period: 1993)	LOD: 1.0 $\mu\text{g}/\text{m}^3$ LOQ: Not Reported	NR	NR	0.1 $\mu\text{g}/\text{L}$ (AM)	NR	NR
Bell et al. 1993 HERO ID: 658661 OQD: Medium	Ontario, CA Scenario: Wastewater from Highland Creek in Metropolitan Toronto - effluent (n = 4; DF = NR; Sampling Period: 1993)	LOD: 1.0 $\mu\text{g}/\text{m}^3$ LOQ: Not Reported	NR	NR	2.0 $\mu\text{g}/\text{L}$ (AM)	NR	NR

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Table 9 – continued from previous page

Citation Information	Site and Data Description	Limit (LOD/LOQ)	Min	Max	Mean	Percentile	Variance
Bell et al. 1993 HERO ID: 658661 <i>OQD:</i> Medium	Ontario, CA Scenario: Wastewater from Skyway in Burlington - grit chamber (n = 4; DF = NR; Sampling Period: 1993)	LOD: 1.0 $\mu\text{g}/\text{m}^3$ LOQ: Not Reported	NR	NR	1 $\mu\text{g}/\text{L}$ (AM)	NR	NR
Bell et al. 1993 HERO ID: 658661 <i>OQD:</i> Medium	Ontario, CA Scenario: Wastewater from Highland Creek in Metropolitan Toronto - grit chamber (n = 4; DF = NR; Sampling Period: 1993)	LOD: 1.0 $\mu\text{g}/\text{m}^3$ LOQ: Not Reported	NR	NR	97.0 $\mu\text{g}/\text{L}$ (AM)	NR	NR
Bell et al. 1993 HERO ID: 658661 <i>OQD:</i> Medium	Ontario, CA Scenario: Wastewater off-gas from Skyway in Burlington (n = 4; DF = 0; Sampling Period: 1993)	LOD: 1.0 $\mu\text{g}/\text{m}^3$ LOQ: Not Reported	NR	NR	ND	NR	NR
Bell et al. 1993 HERO ID: 658661 <i>OQD:</i> Medium	Ontario, CA Scenario: Wastewater off-gas from Highland Creek in Metropolitan Toronto (n = 4; DF = NR; Sampling Period: 1993)	LOD: 1.0 $\mu\text{g}/\text{m}^3$ LOQ: Not Reported	NR	48 $\mu\text{g}/\text{m}^3$	NR	NR	NR
Roy F. Weston Inc et al. 1980 HERO ID: 1333014 <i>OQD:</i> Medium	Philadelphia, Pennsylvania, US Scenario: Effluent wastewater from Rohm and Haas chemical facility (n = 5; DF = 0.2; Sampling Period: Apr., 1979 - Dec., 1979)	LOD: Not Reported LOQ: Not Reported	POINT VALUE(S): [154 $\mu\text{g}/\text{L}$; — $\mu\text{g}/\text{L}$; — $\mu\text{g}/\text{L}$; — $\mu\text{g}/\text{L}$; — $\mu\text{g}/\text{L}$]				
Roy F. Weston Inc et al. 1980 HERO ID: 1333014 <i>OQD:</i> Medium	Philadelphia, Pennsylvania, US Scenario: Influent wastewater of Northeast Wastewater Treatment Plant, downstream of Rohm and Haas process sewer (n = 2; DF = 1; Sampling Period: Apr., 1979 - Dec., 1979)	LOD: Not Reported LOQ: Not Reported	POINT VALUE(S): [— $\mu\text{g}/\text{L}$; 18.6 $\mu\text{g}/\text{L}$]				
Enwright Associates et al. 1985 HERO ID: 1335577 <i>OQD:</i> Medium	Virginia, US Scenario: Chemical pond wastewater from Allied Corporation, Chesterfield Plant (n = 38; DF = 0; Sampling Period: Feb., 1984)	LOD: 0.5 $\mu\text{g}/\text{L}$ LOQ: Not Reported	NR	NR	ND	NR	NR
Ghassemi et al. 1984 HERO ID: 1358515 <i>OQD:</i> Medium	USA, US Scenario: Leachate from 11 waste disposal sites (n = 8; DF = 0.125; Sampling Period: Jan., 1981 - Jan., 1983)	LOD: Not Reported LOQ: Not Reported	NR	NR	0.103 mg/L (AM)	NR	NR

Table 10: Data Extraction Tables of Exposure Experimental Studies for Building Materials

Citation Information	Site and Data Description	Limit (LOD/LOQ)	Min	Max	Mean	Percentile	Variance
Kim et al. 2007 HERO ID: 1512515 <i>OQD: Medium</i>	KR (Product source) Scenario: Measured emission factor for flooring with MF adhesive and beech veneer, 20 L chamber, Day 1 (n = 1; DF = NR)	LOD: Not Reported LOQ: Not Reported				POINT VALUE(S): [0.000 µg/m2/h]	
Kim et al. 2007 HERO ID: 1512515 <i>OQD: Medium</i>	KR (Product source) Scenario: Measured emission factor for flooring with MF adhesive and beech veneer, 20 L chamber, Day 3 (n = 1; DF = NR)	LOD: Not Reported LOQ: Not Reported				POINT VALUE(S): [0.000 µg/m2/h]	
Kim et al. 2007 HERO ID: 1512515 <i>OQD: Medium</i>	KR (Product source) Scenario: Measured emission factor for flooring with MF adhesive and beech veneer, 20 L chamber, Day 5 (n = 1; DF = NR)	LOD: Not Reported LOQ: Not Reported				POINT VALUE(S): [0.000 µg/m2/h]	
Kim et al. 2007 HERO ID: 1512515 <i>OQD: Medium</i>	KR (Product source) Scenario: Measured emission factor for flooring with MF adhesive and beech veneer, 20 L chamber, Day 7 (n = 1; DF = NR)	LOD: Not Reported LOQ: Not Reported				POINT VALUE(S): [0.000 µg/m2/h]	

GLOSSARY FOR CHEMICAL TCA