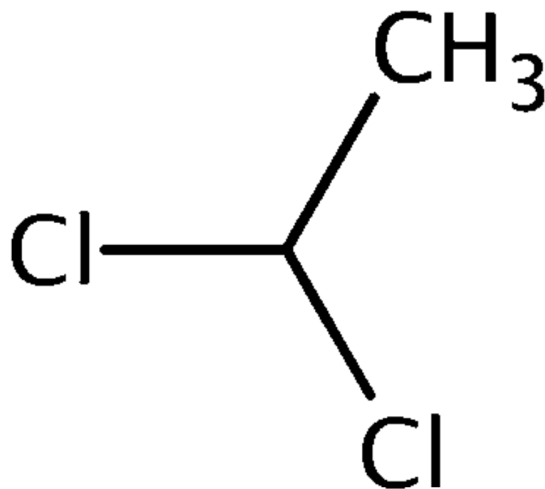


## Draft Risk Evaluation for 1,1-Dichloroethane

### Systematic Review Supplemental File:

Data Extraction Information for  
General Population, Consumer, and Environmental Exposure

CASRN: 75-34-3



*July 2024*

This supplemental file contains information regarding the data extraction results for data sources that met the PECO screening criteria for the *Draft Risk Evaluation for 1,1-Dichloroethane*. 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 Risk Evaluation for 1,1-Dichloroethane – Systematic Review Protocol*, referred hereafter as the “1,1-Dichloroethane Systematic Review Protocol”.

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 appropriate. For further details about extraction criteria, review the 1,1-DCA Systematic Review Protocol.

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 1,1-Dichloroethane Data Extraction Information for General Population, Consumer, and Environmental Exposure.

Within the contents of this document, 1,1-dichloroethane may be referred to as the acronyms 1,1-DCA and 1,1-DCE. The acronyms 1,2-DCA, 1,2-DCE, and DCE refer to the chemical 1,2-dichloroethane. The acronyms 1,1,2-TCE, 1,1,2-TCA, and TCE refer to the chemical 1,1,2-trichloroethane. The acronym trans-1,2-DCE refers to the chemical trans-1,2-dichloroethylene. The acronym 1,2-DCP refers to the chemical 1,2-dichloropropane

# Table of Contents

<b>Table Number</b>	<b>Table Name</b>	<b>Page</b>
<b>Monitoring Studies</b>		
1	Data Extraction Tables of Exposure Monitoring Studies for Ambient Air . . . . .	4
2	Data Extraction Tables of Exposure Monitoring Studies for Drinking Water . . . . .	6
3	Data Extraction Tables of Exposure Monitoring Studies for Groundwater . . . . .	7
4	Data Extraction Tables of Exposure Monitoring Studies for Indoor Air . . . . .	9
5	Data Extraction Tables of Exposure Monitoring Studies for Other . . . . .	10
6	Data Extraction Tables of Exposure Monitoring Studies for Soil . . . . .	11
7	Data Extraction Tables of Exposure Monitoring Studies for Surface Water . . . . .	12
8	Data Extraction Tables of Exposure Monitoring Studies for Wastewater . . . . .	14
<b>Experimental Studies</b>		
<b>Modeling Studies</b>		
9	Data Extraction Tables of Exposure Modeling Studies for Groundwater . . . . .	15
10	Glossary of Select Terms for Data Extraction . . . . .	16

Monitoring

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
Logue et al. 2010 <b>HERO ID:</b> 1255270 <i>OQD:</i> High	Pittsburgh, PA, US Scenario: Ambient Air (24 hr conc.) in a residential area near chemical and industrial facilities in the Avalon neighborhood (n = 122; DF = <0.25; Sampling Period: Feb., 2006 - Jan., 2008)	LOD: Not Reported LOQ: Not Reported	NR	NR	0 µg/m <sup>3</sup> (AM)	5th: 0 µg/m <sup>3</sup> ; 25th: 0 µg/m <sup>3</sup> ; 50th: 0 µg/m <sup>3</sup> ; 75th: 0 µg/m <sup>3</sup> ; 95th: 0.04 µg/m <sup>3</sup> ;	0.01 µg/m <sup>3</sup> (ASD)
Logue et al. 2010 <b>HERO ID:</b> 1255270 <i>OQD:</i> High	Pittsburgh, PA, US Scenario: Ambient Air (24 hr conc.) in a downtown residential area with high traffic (n = 122; DF = <0.25; Sampling Period: Feb., 2006 - Jan., 2008)	LOD: Not Reported LOQ: Not Reported	NR	NR	0 µg/m <sup>3</sup> (AM)	5th: 0 µg/m <sup>3</sup> ; 25th: 0 µg/m <sup>3</sup> ; 50th: 0 µg/m <sup>3</sup> ; 75th: 0 µg/m <sup>3</sup> ; 95th: 0.04 µg/m <sup>3</sup> ;	0.01 µg/m <sup>3</sup> (ASD)
Logue et al. 2010 <b>HERO ID:</b> 1255270 <i>OQD:</i> High	Pittsburgh, PA, US Scenario: Ambient Air (24 hr conc.) in a residential area near chemical and industrial facilities in the Stowe neighborhood (n = 122; DF = 0; Sampling Period: Feb., 2006 - Jan., 2008)	LOD: Not Reported LOQ: Not Reported	NR	NR	0 µg/m <sup>3</sup> (AM)	NR	NR
Logue et al. 2010 <b>HERO ID:</b> 1255270 <i>OQD:</i> High	Pittsburgh, PA, US Scenario: Ambient Air (24 hr conc.) in a residential area with distant industrial facilities (n = 122; DF = <0.25; Sampling Period: Feb., 2006 - Jan., 2008)	LOD: Not Reported LOQ: Not Reported	NR	NR	0.01 µg/m <sup>3</sup> (AM)	5th: 0 µg/m <sup>3</sup> ; 25th: 0 µg/m <sup>3</sup> ; 50th: 0 µg/m <sup>3</sup> ; 75th: 0 µg/m <sup>3</sup> ; 95th: 0.04 µg/m <sup>3</sup> ;	0.02 µg/m <sup>3</sup> (ASD)
Ras-Mallorqui et al. 2007 <b>HERO ID:</b> 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: 0.03 µg/m <sup>3</sup> LOQ: 0.04 µg/m <sup>3</sup>	NR	NR	ND	NR	NR
Ras-Mallorqui et al. 2007 <b>HERO ID:</b> 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: 0.03 µg/m <sup>3</sup> LOQ: 0.04 µg/m <sup>3</sup>	NR	NR	ND	NR	NR
Ras-Mallorqui et al. 2007 <b>HERO ID:</b> 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: 0.03 µg/m <sup>3</sup> LOQ: 0.04 µg/m <sup>3</sup>	NR	NR	ND	NR	NR
Ras-Mallorqui et al. 2007 <b>HERO ID:</b> 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: 0.03 µg/m <sup>3</sup> LOQ: 0.04 µg/m <sup>3</sup>	NR	NR	ND	NR	NR
Ras-Mallorqui et al. 2007 <b>HERO ID:</b> 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: 0.03 µg/m <sup>3</sup> LOQ: 0.04 µg/m <sup>3</sup>	NR	NR	ND	NR	NR

Continued on next page ...

Monitoring

Table 1 – continued from previous page

Citation Information	Site and Data Description	Limit (LOD/LOQ)	Min	Max	Mean	Percentile	Variance
Ras-Mallorqui et al. 2007 <b>HERO ID:</b> 2443817 <i>OQD:</i> High	Tarragona Region, ES Scenario: Ambient air from urban area of Carros Square (close to port, medium traffic) (n = 6; DF = 0; Sampling Period: Dec., 2005 - Jan., 2006)	LOD: 0.03 $\mu\text{g}/\text{m}^3$ LOQ: 0.04 $\mu\text{g}/\text{m}^3$	NR	NR	ND	NR	NR
Ras-Mallorqui et al. 2007 <b>HERO ID:</b> 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: 0.03 $\mu\text{g}/\text{m}^3$ LOQ: 0.04 $\mu\text{g}/\text{m}^3$	NR	NR	ND	NR	NR
Martí et al. 2014 <b>HERO ID:</b> 2517712 <i>OQD:</i> Medium	Barcelona, ES Scenario: Ambient air near closed landfill (Scenario RH2 -inhabitants of city of Cerdanyola) (n = 36; DF = NR; Sampling Period: 2014)	LOD: 0.001-10 ng LOQ: Not Reported	NR	NR	0.006 $\mu\text{g}/\text{m}^3$ (AM)	NR	0.002 $\mu\text{g}/\text{m}^3$ (ASD)
Huang et al. 2019 <b>HERO ID:</b> 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	0.34 $\mu\text{g}/\text{m}^3$ (AM)	NR	0.32 $\mu\text{g}/\text{m}^3$ (ASD)

Monitoring

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
Landmeyer et al. 2014 <b>HERO ID:</b> 5639273 <i>OQD:</i> High	McBee, SC, US Scenario: Drinking water from public-supply wells - 2010 (n = 9; DF = 0.11; Sampling Period: Aug., 2010)	LOD: Not Reported LOQ: 0.044 µg/L	NR	0.042 mg/L	NR	NR	NR
Landmeyer et al. 2014 <b>HERO ID:</b> 5639273 <i>OQD:</i> High	McBee, SC, US Scenario: Drinking water from domestic-supply wells - 2012 (n = 3; DF = 0.33; Sampling Period: Feb., 2012 - Aug., 2012)	LOD: Not Reported LOQ: 0.044 µg/L	POINT VALUE(S): [<0.022 mg/L; <0.022 mg/L; 0.046 mg/L]				
Landmeyer et al. 2014 <b>HERO ID:</b> 5639273 <i>OQD:</i> High	McBee, SC, US Scenario: Drinking water from public-supply wells - 2011 (n = 8; DF = 0.125; Sampling Period: Aug., 2011)	LOD: Not Reported LOQ: 0.022 µg/L	POINT VALUE(S): [<0.022 mg/L; <0.022 mg/L; <0.022 mg/L; <0.022 mg/L; <0.022 mg/L; <0.022 mg/L; 0.052 mg/L]				
Landmeyer et al. 2014 <b>HERO ID:</b> 5639273 <i>OQD:</i> High	McBee, SC, US Scenario: Drinking water from public-supply wells - 2012 (n = 3; DF = 0.33; Sampling Period: Feb., 2012 - Aug., 2012)	LOD: Not Reported LOQ: 0.044 µg/L	POINT VALUE(S): [<0.022 mg/L; <0.022 mg/L; 0.367 mg/L]				
Kingsbury et al. 2008 <b>HERO ID:</b> 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: 0.035 µg/L LOQ: Not Reported	NR	NR	ND	NR	NR

Monitoring

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
Fan et al. 2009 <b>HERO ID:</b> 631540 <i>OQD:</i> Medium	Taiwan, TW Scenario: Groundwater from a well near drinking water treatment plant (W1-10) (n = 60; DF = 0; Sampling Period: Apr., 2005 - Oct., 2005)	LOD: 0.64 µg/L LOQ: Not Reported	NR	NR	<LOD	NR	NR
Chen et al. 1995 <b>HERO ID:</b> 659873 <i>OQD:</i> Medium	Orange County, Florida, US Scenario: Groundwater near landfill (n = 8; DF = 0.625; Sampling Period: 1989 - 1993)	LOD: Not Reported LOQ: Not Reported	POINT VALUE(S): [0.74 µg/mL; 0.07 µg/mL; 10.84 µg/mL; 0.08 µg/mL; 0.06 µg/mL; ND; ND; ND]				
Schrab et al. 1993 <b>HERO ID:</b> 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 <b>HERO ID:</b> 724484 <i>OQD:</i> Medium	Minnesota, US Scenario: Groundwater from landfill sites with suggested leachate contamination (n = 13; DF = 0.54; Sampling Period: 1984)	LOD: Not Reported LOQ: Not Reported	0.5 µg/L	1900 µg/L	NR	NR	NR
Sabel et al. 1984 <b>HERO ID:</b> 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 Assoc Inc et al. 1984 <b>HERO ID:</b> 1335577 <i>OQD:</i> Medium	Virginia, US Scenario: Groundwater from Allied Corporation, Chesterfield Plant (non-detects excluded) (n = 20; DF = 0.2; Sampling Period: Feb., 1984)	LOD: 4.5 µg/L LOQ: Not Reported	POINT VALUE(S): [90 µg/L; 111 µg/L; 10 µg/L; 9.6 µg/L; ND; ND; ND; ND; ND; ND; ND; ND; ND; ND; ND; ND; ND; ND; ND; ND]				
Westinghouse Savannah River Company et al. 1997 <b>HERO ID:</b> 1740826 <i>OQD:</i> Medium	South Carolina, US Scenario: Groundwater monitoring wells in a landfill (non-detects excluded) (n = 136; DF = 0.19; Sampling Period: 1995 - 1996)	LOD: 2-0.05 µg/L LOQ: Not Reported	POINT VALUE(S): [1.14 µg/L; 36 µg/L; 20.4 µg/L; 25.4 µg/L; 0.07 µg/L; 2.94 µg/L; 4.89 µg/L; 11.3 µg/L; 10.7 µg/L; 17.5 µg/L; 17.5 µg/L; 11.4 µg/L; 11.2 µg/L; 9.58 µg/L; 9.58 µg/L; 13.5 µg/L; 16.6 µg/L; 156 µg/L; 0.29 µg/L; 0.64 µg/L; 0.51 µg/L; 0.39 µg/L; 0.37 µg/L; 1.55 µg/L; 0.05 µg/L; 71.8 µg/L]				
Roy F. Weston Inc et al. 1986 <b>HERO ID:</b> 5436115 <i>OQD:</i> Medium	Burlington, VT, US Scenario: Groundwater from Fire Department Training Area and old landfill at Burlington Air National Guard Base (n = 8; DF = 0.25; Sampling Period: Sept., 1984)	LOD: 5 µg/L LOQ: Not Reported	POINT VALUE(S): [BDL µg/L; BDL µg/L; Trace µg/L; BDL µg/L; BDL µg/L; BDL µg/L; 1200 µg/L; BDL µg/L]				
Heck et al. 1992 <b>HERO ID:</b> 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
Heck et al. 1992 <b>HERO ID:</b> 5438509 <i>OQD:</i> Medium	Reno County, Kansas, US Scenario: Groundwater from monitoring wells near Reno County Landfill (n = 8; DF = 0.38; Sampling Period: Aug., 1990)	LOD: Not Reported LOQ: 0.2 µg/L	POINT VALUE(S): [8.2 µg/L; <0.2 µg/L; 120 µg/L; <0.2 µg/L; <0.2 µg/L; 9.0 µg/L; <0.2 µg/L; <0.2 µg/L]				

Continued on next page ...

Monitoring

Table 3 – continued from previous page

Citation Information	Site and Data Description	Limit (LOD/LOQ)	Min	Max	Mean	Percentile	Variance
Bigsby et al. 1989 <b>HERO ID:</b> 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): [<0.5 µg/L]	
Bigsby et al. 1989 <b>HERO ID:</b> 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 <b>HERO ID:</b> 3975066 <i>OQD:</i> High	Various locations, US Scenario: Groundwater from principal aquifers across the United States (n = 221; DF = 0.05; Sampling Period: Oct., 2002 - Jul., 2005)	LOD: Not Reported LOQ: 0.024 µg/L	NR	6.53 µg/L	NR	NR	NR
Hopple et al. 2009 <b>HERO ID:</b> 3975066 <i>OQD:</i> High	Various locations, US Scenario: Source water (resampled) from principal aquifers across the United States (n = 71; DF = 0.11; Sampling Period: Jun., 2004 - Sept., 2005)	LOD: Not Reported LOQ: 0.024 µg/L	NR	7.02 µg/L	NR	NR	NR
Buszka et al. 2009 <b>HERO ID:</b> 4912133 <i>OQD:</i> Medium	Elkhart, Indiana, US Scenario: Water from 4 wells (n = 7; DF = 0.86; Sampling Period: Nov., 2000 - Oct., 2002)	LOD: Not Reported LOQ: Not Reported	<LOQ	12.0 µg/L	7.0 µg/L (AM)	50th: 8.0 µg/L;	4.24 µg/L (ASD)



Monitoring

Table 4: Data Extraction Tables of Exposure Monitoring Studies for Indoor Air

Citation Information	Site and Data Description	Limit (LOD/LOQ)	Min	Max	Mean	Percentile	Variance
Lindstrom et al. 1995 <b>HERO ID:</b> 78782 <i>OQD:</i> Medium	Foothills of Rocky Mountains, US Scenario: Indoor air of conventional single-family homes pre-occupancy phase (unfurnished and unoccupied) (n = 6; DF = 0; Sampling Period: Dec., 1992)	LOD: 1.21 $\mu\text{g}/\text{m}^3$ LOQ: Not Reported	NR	NR	ND	NR	NR
Lindstrom et al. 1995 <b>HERO ID:</b> 78782 <i>OQD:</i> Medium	Foothills of Rocky Mountains, US Scenario: Indoor air of experimental single-family town-homes pre-occupancy phase (unfurnished and unoccupied) (n = 10; DF = 0; Sampling Period: Dec., 1992)	LOD: 1.21 $\mu\text{g}/\text{m}^3$ LOQ: Not Reported	NR	NR	ND	NR	NR
Lindstrom et al. 1995 <b>HERO ID:</b> 78782 <i>OQD:</i> Medium	Foothills of Rocky Mountains, US Scenario: Indoor air of experimental single-family town-homes during occupancy (n = 12; DF = 0; Sampling Period: May, 1993)	LOD: 0.12 $\mu\text{g}/\text{m}^3$ LOQ: Not Reported	NR	NR	ND	NR	NR
Lindstrom et al. 1995 <b>HERO ID:</b> 78782 <i>OQD:</i> Medium	Foothills of Rocky Mountains, US Scenario: Indoor air of conventional single-family homes during occupancy (n = 6; DF = 0; Sampling Period: May, 1993)	LOD: 0.12 $\mu\text{g}/\text{m}^3$ LOQ: Not Reported	NR	NR	ND	NR	NR
Huang et al. 2019 <b>HERO ID:</b> 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	0.47 $\mu\text{g}/\text{m}^3$ (AM)	NR	0.44 $\mu\text{g}/\text{m}^3$ (ASD)
Li et al. 2019 <b>HERO ID:</b> 5736601 <i>OQD:</i> High	Quebec Province; Ontario Province; British Columbia Province; Atlantic Provinces; Prairie Provinces, CA Scenario: Indoor air from living rooms in homes (n = 3524; DF = 0.004; Sampling Period: Jan., 2012 - Dec., 2013)	LOD: 0.053 $\mu\text{g}/\text{m}^3$ LOQ: 0.04 $\mu\text{g}/\text{m}^3$	NR	1.7 $\mu\text{g}/\text{m}^3$	NR	NR	NR

Monitoring

Table 5: 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 <b>HERO ID:</b> 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	0.0 $\mu\text{g/L}$	12.0 $\mu\text{g/L}$	6.0 $\mu\text{g/L}$ (AM)	NR	NR
Schrab et al. 1993 <b>HERO ID:</b> 661846 <i>OQD:</i> Low	Eastern, US Scenario: Leachate (L-3) from municipal solid waste landfill (n = 3; DF = 0; Sampling Period: 1993)	LOD: Not Reported LOQ: Not Reported	NR	NR	0.0 $\mu\text{g/L}$ (AM)	NR	NR
Sabel et al. 1984 <b>HERO ID:</b> 724484 <i>OQD:</i> Medium	Minnesota, US Scenario: Leachates from municipal solid waste landfill leachate collection systems (n = 6; DF = 0.83; Sampling Period: 1984)	LOD: Not Reported LOQ: Not Reported	0.6 $\mu\text{g/L}$	46.0 $\mu\text{g/L}$	NR	NR	NR

Monitoring

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

Citation Information	Site and Data Description	Limit (LOD/LOQ)	Min	Max	Mean	Percentile	Variance
Martí et al. 2014 <b>HERO ID:</b> 2517712 <i>OQD:</i> Medium	Barcelona, ES Scenario: Soil gas outside closed landfill (Scenario RH4 & 6 - future residential and industrial/commercial spaces) (n = 4; DF = NR; Sampling Period: 2014)	LOD: 0.001-10 ng LOQ: Not Reported	NR	NR	0.06 $\mu\text{g}/\text{m}^3$ (AM)	NR	0.03 $\mu\text{g}/\text{m}^3$ (ASD)
Martí et al. 2014 <b>HERO ID:</b> 2517712 <i>OQD:</i> Medium	Barcelona, ES Scenario: Soil gas outside closed landfill (Scenario RH5 - future kindergarten) (n = 3; DF = NR; Sampling Period: Jun., 2012)	LOD: 0.001-10 ng LOQ: Not Reported	NR	NR	0.05 $\mu\text{g}/\text{m}^3$ (AM)	NR	ND $\mu\text{g}/\text{m}^3$ (ASD)

Monitoring

Table 7: Data Extraction Tables of Exposure Monitoring Studies for Surface Water

Citation Information	Site and Data Description	Limit (LOD/LOQ)	Min	Max	Mean	Percentile	Variance
Hunt et al. 2007 <b>HERO ID:</b> 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	0.78 μg/L (AM)	NR	NR
Hunt et al. 2007 <b>HERO ID:</b> 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	0.73 μg/L (AM)	NR	NR
Hunt et al. 2007 <b>HERO ID:</b> 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	1.14 μg/L (AM)	NR	NR
Hunt et al. 2007 <b>HERO ID:</b> 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	2.98 μg/L (AM)	NR	NR
Hunt et al. 2007 <b>HERO ID:</b> 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	4.17 μg/L (AM)	NR	NR
Hunt et al. 2007 <b>HERO ID:</b> 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	5.64 μg/L (AM)	NR	NR
Hunt et al. 2007 <b>HERO ID:</b> 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	11.9 μg/L (AM)	NR	NR
Hunt et al. 2007 <b>HERO ID:</b> 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	14.2 μg/L (AM)	NR	NR
Hunt et al. 2007 <b>HERO ID:</b> 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	48.7 μg/L (AM)	NR	NR
Chen et al. 1995 <b>HERO ID:</b> 659873 <i>OQD:</i> Medium	Orange County, Florida, US Scenario: Surface water from Wide Cyprus Swamp near a landfill (n = 12; DF = 0.5; Sampling Period: 1989 - 1993)	LOD: Not Reported LOQ: Not Reported	POINT VALUE(S): [0.06 μg/L; 0.06 μg/L; 0.06 μg/L; 0.07 μg/L; 0.07 μg/L; 0.06 μg/L; ND; ND; ND; ND; ND; ND]				

Continued on next page ...

Monitoring

Table 7 – continued from previous page

Citation Information	Site and Data Description	Limit (LOD/LOQ)	Min	Max	Mean	Percentile	Variance
Enwright Assoc Inc et al. 1984 <b>HERO ID:</b> 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: 4.5 µg/L LOQ: Not Reported	NR	NR	ND	NR	NR
Ellis et al. 2007 <b>HERO ID:</b> 3544475 <i>OQD:</i> Medium	Birmingham, GB Scenario: River Tame surface water downstream the Birmingham Triassic sandstone aquifer effluent (n = 35; DF = 0.358; Sampling Period: 2001)	LOD: 0.1 µg/L LOQ: Not Reported	NR	25.74 µg/L	0.95 µg/L (AM)	NR	NR
Roy F. Weston Inc et al. 1986 <b>HERO ID:</b> 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 <b>HERO ID:</b> 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 <b>HERO ID:</b> 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

Monitoring

Table 8: 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 <b>HERO ID:</b> 658661 <i>OQD:</i> Medium	Ontario, CA Scenario: Wastewater off-gas from Skyway in Burlington (n = 4; DF = NR; Sampling Period: 1993)	LOD: 1.0 $\mu\text{g}/\text{m}^3$ LOQ: Not Reported	NR	5 $\mu\text{g}/\text{m}^3$	NR	NR	NR
Bell et al. 1993 <b>HERO ID:</b> 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	298 $\mu\text{g}/\text{m}^3$	NR	NR	NR
Enwright Assoc Inc et al. 1984 <b>HERO ID:</b> 1335577 <i>OQD:</i> Medium	Virginia, US Scenario: Chemical pond wastewater from Allied Corporation, Chesterfield Plant (n = 21; DF = 0; Sampling Period: Feb., 1984)	LOD: 4.5 $\mu\text{g}/\text{L}$ LOQ: Not Reported	NR	NR	ND	NR	NR
Ghassemi et al. 1984 <b>HERO ID:</b> 1358515 <i>OQD:</i> Medium	USA, US Scenario: Leachate from 11 waste disposal sites (n = 8; DF = 0.25; Sampling Period: Jan., 1981 - Jan., 1983)	LOD: Not Reported LOQ: Not Reported	NR	NR	0.594 mg/L (AM)	NR	NR

Table 9: Data Extraction Tables of Exposure Modeling Studies for Groundwater

Citation Information	Site and Data Description	Min	Max	Mean	Percentile	Variance
Lee et al. 2002 <b>HERO ID:</b> 33739 <i>OQD:</i> Medium	Taoyuan City, TW (Modeled Location) Scenario: Modeled dermal chronic intake exposure from residential groundwater use near former electronics manufacturing factory					POINT VALUE(S): [0.0000325 mg/kg/day]
Lee et al. 2002 <b>HERO ID:</b> 33739 <i>OQD:</i> Medium	Taoyuan City, TW (Modeled Location) Scenario: Modeled inhalation chronic intake exposure from residential groundwater use near former electronics manufacturing factory					POINT VALUE(S): [0.00311 mg/kg/day]

## Glossary of Select Terms for Data Extraction Tables

Table 10: Glossary of Select Terms for Data Extraction

Term	Definition
/day	per day
μ-	micro-
AM	Arithmetic Mean
ASD	Arithmetic Standard Deviation
AU	Australia
BDL	Below Detection Limit
BW	Bodyweight
CA	Canada
CA, US	California
CO	Colorado
DF	Detection Frequency
DWTP	Drinking Water Treatment Plant
EPA	Environmental Protection Agency
ES	Spain
ft <sup>2</sup>	feet squared
g	gram
GA	Georgia
GB	Great Britain
GM	Geometric Mean
h	hour
IN	Indiana
k-	kilo-
L	liter
L-	Landfill
LOD	Limit of Detection
LOQ	Limit of Quantification
m	meter
m-	milli-
m <sup>2</sup>	square meter
m <sup>3</sup>	cubic meter
MA	Massachusetts
MDL	Method Detection Limit
mol	mole
MR	Madrid Region
MRL	Method Reporting Limit
n	Sample Size
n-	nano-
NC	North Carolina
ND	Non-Detected
NR	Not Reported
OQD	Overall Quality Determination
OR	Oregon
p-	pico-
PA	Pennsylvania
PDMS	polydimethylsiloxane rubber composite
PM	Particulate Matter
POCIS	polar organic chemical integrative sampler
RSD	Relative Standard Deviation
SE	Sweden

Continued on next page ...



## Glossary of Select Terms for Data Extraction Tables

1,1-Dichloroethane

Table 10 ... continued from previous page

Term	Definition
SPMD	semipermeable membrane device
STP	Sewage Treatment Plant
SVOC	Semi-Volatile Organic Compound
TW	Taiwan
TX	Texas
US or USA	United States of America
VA	Virginia
VT	Vermont