

Georgia Risk Assessment Guidance

References, References, and Tools

This document provides links to the References, Resources and Tools cited in the Georgia Environmental Protection Division's Risk Assessment Guidance, (2026), listed by date.

Links to References

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Links to Resources

EPD Guidance Documents

Guidance for Evaluating the Vapor Intrusion Exposure Pathway, (2021).

<https://epd.georgia.gov/document/pdf/finaldraftviguidance8-31-21/download>

Area Averaging Approach to Soil Compliance for Direct Contact Exposure Scenarios, (2020).

<https://epd.georgia.gov/document/document/epdlpbareaaveragingguidancepdf/download>

FAQs for Evaluating the Soil-to-Groundwater Pathway, (2019). -

<https://epd.georgia.gov/document/document/epdlpbleachingguidancepdf/download>

CSM

Environmental Cleanup Best Management Practices: Effective Use of the Project Life Cycle Conceptual Site Model, EPA, EPA542-F-11-011, July 2021.

<https://www.epa.gov/sites/default/files/2015-04/documents/csm-life-cycle-fact-sheet-final.pdf>

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Conceptual Site Model (CSM) presentation, TechLaw and USEPA Region 4.

<https://archive.epa.gov/epawaste/hazard/web/pdf/csm.pdf>

Data Collection Guidelines and Evaluation before the Risk Assessment

Interstate Technology & Regulatory Council

ITRC document *Soil Background and Risk Assessment*, December 2021.

<https://sbr-1.itrcweb.org/>

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Risk Assessment Guidance for Superfund, Part A, Chapter 4, EPA/540/1-89/002, December 1989. <https://www.epa.gov/risk/risk-assessment-guidance-superfund-rags-part>

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EPA's Lead at Superfund Sites: Guidance webpage. <https://www.epa.gov/superfund/lead-superfund-sites>

EPA's Hazardous Waste Test Methods/SW-846 webpage. <https://www.epa.gov/hw-sw846>

Guidance for Data Useability in Risk Assessment, EPA OSWER, Publication 9285.7-09FS, June 1992. <https://www.epa.gov/risk/guidance-data-useability-risk-assessment-part-1-final-april-1992>

Georgia Rules for Commercial Environmental Laboratories, Rule 391-3-26. <https://rules.sos.ga.gov/GAC/391-3-26>

Determining and Use of Background Levels

Establishing Background Levels, Quick Reference Fact Sheet, USEPA, Directive 9285.7-19FS, EPA/540/F-94/030, September 1995. <https://semspub.epa.gov/work/HQ/174005.pdf>

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<https://www.epa.gov/sites/default/files/2015-11/documents/background.pdf>

Role of Background in the CERCLA Cleanup Program, US EPA OSWER 9285.6-07P, April 26, 2002. https://www.epa.gov/sites/default/files/2015-11/documents/bkgpol_jan01.pdf

Toxicity Values

Integrated Risk Information System (IRIS): <https://www.epa.gov/iris>

Provisional Peer-Reviewed Toxicity Values (PPRTVs): <https://www.epa.gov/pprtv>

Agency for Toxic Substances and Disease Registry (ATSDR): <https://www.atsdr.cdc.gov>

California EPA Toxicity Values: <https://data.ca.gov/dataset/toxicity-criteria-database/resource/0d417a2b-6559-4725-820f-add7c57a8bc9>

Health Effects Assessment Summary Tables (HEAST):
<https://assessments.epa.gov/risk/document/&deid=2877>

Ecological Risk Assessment

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<https://www.epa.gov/risk/role-screening-level-risk-assessments-and-refining-contaminants-concern-baseline-ecological>

Framework for Application of the Toxicity Equivalence Methodology for Polychlorinated Dioxins, Furans, and Biphenyls in Ecological Risk Assessment (June 2008), USEPA.
<https://www.epa.gov/risk/framework-application-toxicity-equivalence-methodology-polychlorinated-dioxins-furans-and>

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US Environmental Protection Agency

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Region 3 BTAG Screening Benchmarks <https://www.epa.gov/risk/biological-technical-assistance-group-btag-screening-values>

National Oceanic and Atmospheric Administration

NOAA Screening Quick Reference Tables (SQuiRTs)
<https://repository.library.noaa.gov/view/noaa/9327>

NOAA Fisheries: www.fisheries.noaa.gov

US Fish and Wildlife Service

USFWS Information for Planning and Consultation. <https://ipac.ecosphere.fws.gov>

Georgia Department of Natural Resources

Biodiversity Portal. <https://georgiabiodiversity.org/portal/>

Ecological Risk Assessment Supplemental Sources for Food Chain Modeling Inputs (refer to EPA EcoBox)

Exposure Parameters¹:

Wildlife Exposure Factors Handbook. EPA/600/R-93/187. (1993). EPA.
<https://assessments.epa.gov/risk/document/&deid=2799>

Food requirements of wild animals: Predictive equations for free-living mammals, reptiles, and birds. (2001). Nagy. <https://escholarship.org/uc/item/18s7d943>

Methods and tools for estimation of the exposure of terrestrial wildlife to contaminants. (1997). Sample et al. <https://rais.ornl.gov/documents/tm13391.pdf>

TRVS¹:

Ecological Soil Screening Levels (Eco-SSLs). EPA. <https://www.epa.gov/chemical-research/ecological-soil-screening-level>

Toxicological Benchmarks for Wildlife: 1996 Revision. ES/ER/TM-86/R3. (1997). Oak Ridge

National Laboratory. <https://rais.ornl.gov/documents/tm86r3.pdf>

ECOTOXicology database (ECOTOX). EPA. <https://cfpub.epa.gov/ecotox/>

ATSDR Toxicological Profiles <https://www.atsdr.cdc.gov/toxicological-profiles/about/index.html>

BAFs/BCFs

Bioaccumulation and Bioconcentration Screening Manual: ERD-AG-003 (1999). Environmental Restoration Division. <https://www.srs.gov/general/programs/soil/ffa/rdh/p74.PDF>

Screening Level Ecological Risk Assessment Protocol for Hazardous Waste Combustion Facilities. Volume One. EPA530-D-99-001A. (1999). EPA. <https://archive.epa.gov/epawaste/hazard/tsd/td/web/pdf/chap1.pdf>

Estimation Programs Interface (EPI) Suite (2012). EPA. <https://www.epa.gov/tsca-screening-tools/epi-suite-estimation-program-interface>

The Risk Assessment Information System (2024). Oak Ridge National Laboratory. <https://rais.ornl.gov/>

State and National Criteria for Surface Water and Drinking Water

Georgia Water Quality Standards (Rule 391-3-6-.03): <https://rules.sos.ga.gov/gac/391-3-6-.03>

National Recommended Water Quality Criteria: <https://www.epa.gov/wqc/national-recommended-water-quality-criteria-tables>

Georgia Drinking Water Standards (Rule 391-3-5-.18): <https://rules.sos.ga.gov/gac/391-3-5-.18>

Tools

US EPA Regional Screening Level (RSL) calculator: https://epa-prgs.ornl.gov/cgi-bin/chemicals/csl_search

The Risk Assessment Information System (RAIS) Preliminary Remedial Goal (PRG) calculator: https://rais.ornl.gov/cgi-bin/prg/PRG_search?select=chem

The Risk Assessment Information System (RAIS) Chemical Risk Calculator: https://rais.ornl.gov/cgi-bin/prg/RISK_search?select=chem

Adult Lead Methodology (ALM): https://rais.ornl.gov/cgi-bin/lead_model/prg_model

Integrated Exposure Uptake Biokinetic Model: <https://www.epa.gov/superfund/lead-superfund-sites-software-and-users-manuals>

All Ages Lead Model: <https://www.epa.gov/land-research/all-ages-lead-model-aalm>

ProUCL Software: <https://www.epa.gov/land-research/proucl-software>

EPD ScreenTool– Under Development

EPD Food Chain Model (FICMIC) – Under Development

¹ *Contact EPA Region 4 Scientific Support Section for the latest updated values of preferred TRVs and wildlife exposure parameters.* <https://www.epa.gov/risk/region-4-risk-assessment-contacts>