

LANGAN

Wishlist for Revisions to Chapter 62-777, F.A.C

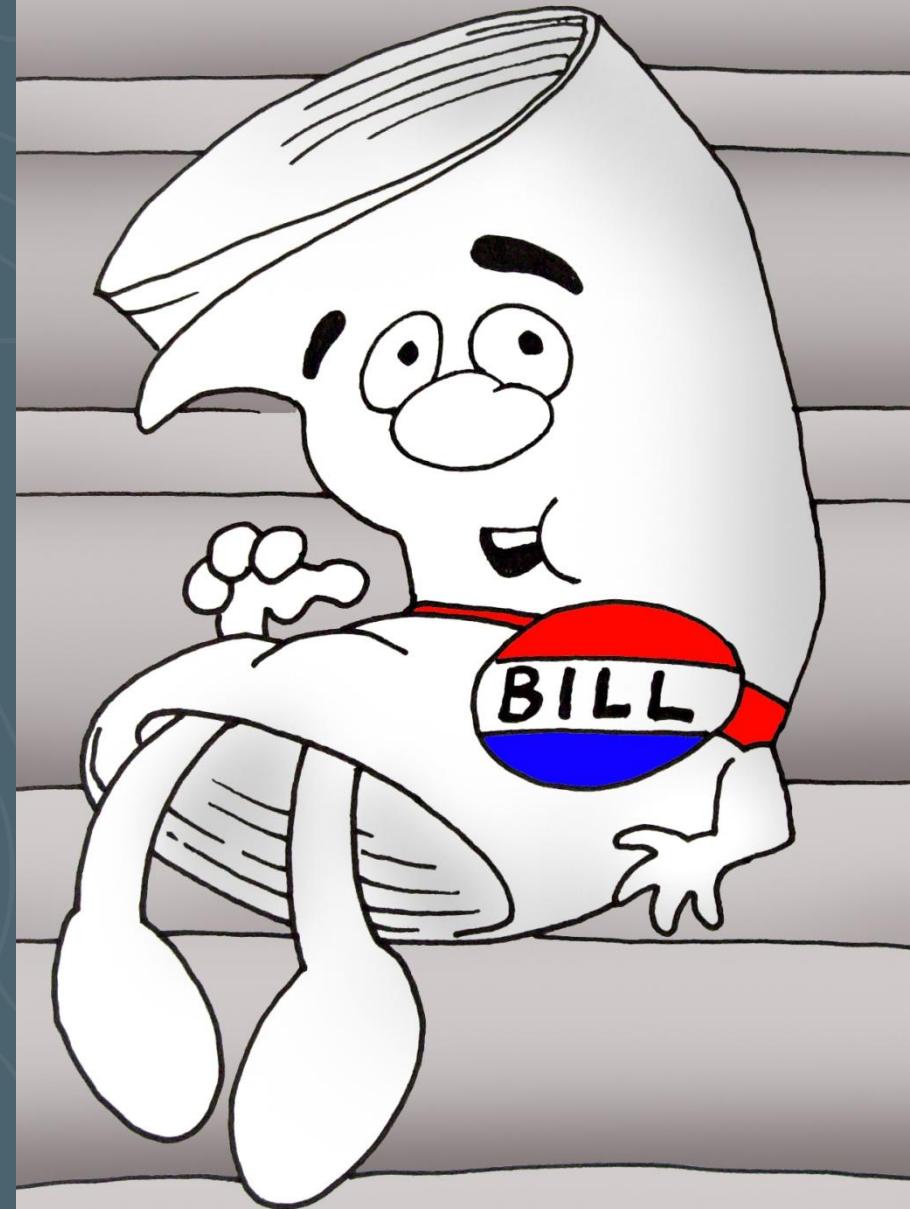
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**Florida Brownfields
Association**

September 17, 2026



Rule Review Requirements

- The Florida Department of Environmental Protection (FDEP) is required to review its rules on a 5-year cycle by Section 120.5435, Florida Statutes.
- The agency shall take one of the following actions during its rule review:
 - (a) Make no change to the rule.
 - (b) Make a technical change to the rule.
 - (c) Make a substantive change to the rule.
 - (d) Repeal the rule.

Rule Review Requirements

The agency rule review must determine whether each rule:

- (a) Is a valid exercise of delegated legislative authority;
- (b) Has current statutory authority;
- (c) Reiterates or paraphrases statutory material;
- (d) Is in proper form;
- (e) Is consistent with expressed legislative intent pertaining to the specific provisions of law which the rule implements;
- (f) Requires a technical or substantive update to reflect current use; and
- (g) Requires updated references to statutory citations and incorporated materials.

Default Ingestion Rates

Soil (USEPA, 1996)

- Child (1-6 years) - 200 mg/day
- Older Resident (7-31 years) - 100 mg/day
- Adult worker (age not specified) - 50 mg/day were obtained



In Summary

200 mg of soil is a tiny amount—barely enough to cover the tip of a pencil.



Groundwater (USEPA, 1997)

- Adults - 2 L/day



SCTL and GCTL Updates

Adoption of new CTLs:

- Benzo(a)pyrene and TEQ Industrial/Commercial Alternative SCTL
- Barium Alternative SCTL
- PFAS CTLs (if ratified by the legislature)
- Iron and other Table F compounds – would require rule making (62-520 and 62-780, FAC)

Can we repeal the Ammonia GCTL?

Acute Toxicity-based SCTLs (barium, cadmium, copper, cyanide, fluoride, nickel, phenol, and vanadium)

FDEP Previously Developed ASCTLs

publicfiles.dep.state.fl.us - /DWM/FTP/DBS/

[\[To Parent Directory\]](#)

1/28/2021 1:11 PM	137789	Acifluorfen CTLs Oct07.pdf
1/28/2021 1:11 PM	738129	Acute Ammonia AGCTL.pdf
1/28/2021 1:12 PM	145286	Acute Toxicity Whitepaper Apr20.pdf
2/9/2023 3:00 PM	533614	Acute Utility Worker CTLs March2022.pdf
2/9/2023 3:00 PM	352062	Acute Utility Worker Ethyl Chloride CTLs Feb2023.pdf
10/12/2021 2:51 PM	432275	Acute CTLs Vinyl Chloride Sept2021.pdf
1/28/2021 1:11 PM	937284	Alternative SCTLs for PFOA and PFOS.pdf
1/28/2021 1:11 PM	907555	Alternative-Arsenic-CTL-Brice-Lumber.pdf
1/28/2021 1:11 PM	195138	Alternative-Arsenic-Fairfax-Wood-Treaters.pdf
1/28/2021 1:12 PM	69197	Alternative-Arsenic-Recreational-Golfer.pdf
1/6/2026 3:42 PM	516567	Alternative-Barium- ASCTL Dec2025.pdf
1/28/2021 1:11 PM	54586	Alternative-Barium-Soil-Dade-City-Rod-and-Gun-Club-FACID 693-1.pdf
1/28/2021 1:12 PM	36499	Alternative-Toxaphene-Kissimmee-Prairie-Preserve-State-Park.pdf
1/28/2021 1:12 PM	55708	Alternative-Vanadium-Kendall-West.pdf
1/28/2021 1:12 PM	2730817	ATCL-Soil-for-Sodium-and-pH.pdf
1/28/2021 1:11 PM	3528493	ATCL-Soil-for-Sulfate-and-Sulfide.pdf
9/19/2022 6:43 PM	888289	BaP ADAF Evaluation ASCTL.pdf
1/28/2021 1:11 PM	566739	Calculation-AGCTL-for-PFOA-PFOS-Protective-Sensitive-Lifestages.pdf
10/12/2021 2:46 PM	580373	Child Exposure S5 Plus Communities Mar2021.pdf
1/28/2021 1:12 PM	100119478	CMF-Part 1 12Sep19.mp3
1/28/2021 1:11 PM	98569686	CMF-Part 2 12Sep19.mp3
1/28/2021 1:12 PM	40114	Cocamidopropyl Betaine Aug 2004.pdf
1/28/2021 1:16 PM	<dir>	Complementary CTL letters June 2013
1/28/2021 1:12 PM	35255	Complementary Table 1 Mar09v5.pdf
1/28/2021 1:11 PM	30084	Complementary Table 2 Mar09v6.pdf
1/28/2021 1:12 PM	318413	Complementary CTLs Jun13.pdf
11/17/2014 4:01 PM	2518	Complementary CTLs Jun13.pdf - Shortcut.lnk
1/28/2021 1:11 PM	81942	CTLs for 1,1,1,2,3,4,4,4,5,5,5-decafluoropentane-Sept-2006.pdf
1/28/2021 1:11 PM	927126	Cyclohexane GCTL Nov 2005.pdf
1/28/2021 1:11 PM	118479	D-glucose-0 June 2002.pdf
1/28/2021 1:12 PM	804127	DGMF CTLs Sept 2003.pdf
1/28/2021 1:12 PM	838892	Dicloran CTLs Aug 2003.pdf
1/28/2021 1:11 PM	5216827	Dioxin ASCTL Response Jan 2011.pdf
2/23/2022 10:17 AM	369777	DNT Isomers Review 02.21.2022.pdf
1/28/2021 1:12 PM	487965	Endrin Ketone and Aldehyde GCTLs Nov 2005.pdf
10/12/2021 2:50 PM	563932	Evaluation Exposure Parameters-ASCTLs-S5 Plus Communities Feb2021.pdf
1/28/2021 1:11 PM	72846	Imidacloprid-Clean up Criteria.pdf
1/28/2021 1:11 PM	11724423	Irrigation Water Guidance Levels.pdf
1/28/2021 1:11 PM	38808	Irrigation-1,4-Dioxane-Electro-Corporation.pdf
1/28/2021 1:11 PM	253526	Irrigation-Assumptions-Final.pdf
1/28/2021 1:11 PM	46604	Irrigation-Cumene-1,2,4-trimethylbenzene-1,3,5-trimethylbenzene.pdf
1/28/2021 1:12 PM	71957	Isopropylalcohol-Cleanup Criteria-Feb-07.pdf
1/28/2021 1:11 PM	64010	Limonene CTLs Aug 3, 2006.pdf
3/7/2024 2:23 PM	369762	n-butylbenzene and n-propylbenzene CTLs Mar2024.pdf
1/28/2021 1:12 PM	217773	n-Propylbenzene CTLs revised Jun13.pdf
1/28/2021 1:11 PM	110828	P-cymene GCTL April 2003.pdf
1/28/2021 1:11 PM	55099	Perchlorate soil cleanup target levels.pdf
1/28/2021 1:11 PM	358334	PFOA-PFOS-Leachability Jan19.pdf
1/28/2021 1:11 PM	43249	Relative source contribution for boron.pdf
3/1/2024 11:53 AM	361071	Sec- and tert-butylbenzene CTLs Feb2024.pdf
1/28/2021 1:12 PM	164119	Soybean methyl esters June 2002.pdf
5/22/2024 10:14 AM	569541	SWCTL perchlorate May2024.pdf
1/28/2021 1:11 PM	38971	Tergitol April 9, 2004.pdf
1/28/2021 1:11 PM	205951	Titanium SCTLs-Apr.-07.pdf
1/28/2021 1:12 PM	42287	Triton X-100 CTL Jun 3, 2004.pdf
1/28/2021 1:11 PM	72464	Tyndall Air Force Base Site FR038 Operable Unit 15.pdf
1/28/2021 1:12 PM	979732	Update-PFAS-Criteria 14Apr20.pdf
10/12/2021 2:49 PM	533937	Utility Worker Scenario-Vinyl Chloride Sep2021.pdf
3/25/2024 8:04 AM	356694	Vanadium SW CTLs Mar2024.pdf

Guidance Documents

Currently only four referenced guidelines:

- (1) Approach to the Assessment of Sediment Quality in Florida Coastal Water, Volumes 1-4, dated November 1994.
- (2) Technical Report: Development of Cleanup Target Levels (CTLs) for Chapter 62-777, F.A.C., Final Report, dated February 2005.
- (3) Guidance for the Selection of Analytical Methods and for the Evaluation of Practical Quantitation Limits, dated October 12, 2004.
- (4) Development and Evaluation of Numerical Sediment Quality Assessment Guidelines for Florida Inland Waters, dated January 2003.

Do we update and/or adopt more?

- (5) Background
- (6) LY/PQ Guidance
- (7) Old Dump Guidance



Long Term Goals

Eventually, we need to make big changes:

- Update the equations to match the EPA
- Sources for Toxicity Values
- Apportionment
- Probabilistic Risk Assessment

From the Technical Report: Development of Cleanup Target Levels (CTLs) for Chapter 62-777, F.A.C. (2005):

Figure 1
Equation for Deriving Site-Specific Cleanup Target Levels
for Carcinogens in Groundwater

The formula for calculation is:

$$GCTL(\mu\text{g/L}) = \frac{1 \times 10^{-6} \times BW \times CF}{CSF_o \times WC}$$

Parameter	Definition	Default Value
GCTL	groundwater cleanup target level (µg/L)	-
TR	target cancer risk (unitless)	1 x 10 ⁻⁶
BW	average body weight (kg)	70.0
CF	conversion factor (µg/mg)	1000
CSF _o	oral cancer slope factor (mg/kg-day) ⁻¹	chemical-specific ^a
WC	average water consumption rate (L/day)	2

^aToxicity values from IRIS, HEAST or other sources as provided in Table 5a for carcinogens.

Figure 2
Equation for Deriving Site-Specific Cleanup Target Levels
for Non-Carcinogens in Groundwater

The formula for calculation is:

$$GCTL(\mu\text{g/L}) = \frac{RfD_o \times BW \times RSC \times CF}{WC}$$

Parameter	Definition (units)	Default Value
GCTL	groundwater cleanup target level (µg/L)	-
BW	average body weight (kg)	70
RfD _o	oral reference dose (mg/kg-day)	chemical-specific ^a
RSC	relative source contribution (%)	20
CF	conversion factor (µg/mg)	1000
WC	average water consumption rate (L/day)	2

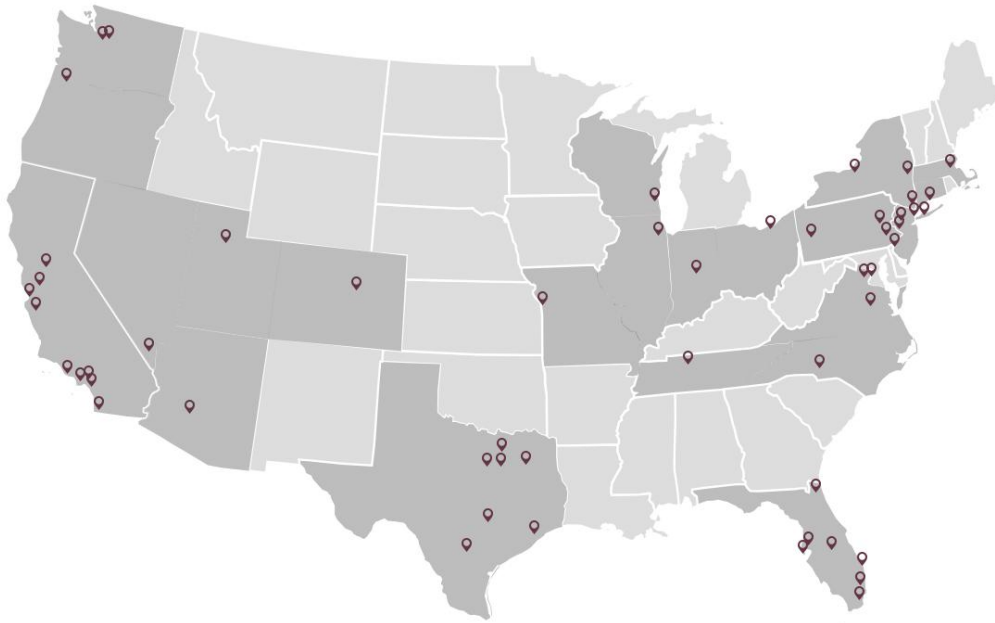
^aToxicity values from IRIS, HEAST, or other sources as provided in Table 5b for non-carcinogens.

THANK YOU!

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