# Second Regular Session Seventy-first General Assembly STATE OF COLORADO

# **PREAMENDED**

This Unofficial Version Includes Committee Amendments Not Yet Adopted on Second Reading

LLS NO. 18-0611.01 Jennifer Berman x3286

**HOUSE BILL 18-1069** 

#### **HOUSE SPONSORSHIP**

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#### **House Committees**

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Agriculture, Livestock, & Natural Resources Appropriations

# A BILL FOR AN ACT CONCERNING THE ALLOWABLE USES OF RECLAIMED DOMESTIC WASTEWATER, AND, IN CONNECTION THEREWITH, ALLOWING RECLAIMED DOMESTIC WASTEWATER TO BE USED FOR TOILET FLUSHING AND MAKING AN APPROPRIATION.

## **Bill Summary**

(Note: This summary applies to this bill as introduced and does not reflect any amendments that may be subsequently adopted. If this bill passes third reading in the house of introduction, a bill summary that applies to the reengrossed version of this bill will be available at <a href="http://leg.colorado.gov">http://leg.colorado.gov</a>.)

The bill codifies rules promulgated by the water quality control commission (commission) of the Colorado department of public health and environment concerning allowable uses of reclaimed domestic wastewater, which is wastewater that has been treated for subsequent reuses other than drinking water.

**Section 3** of the bill defines 3 categories of water quality standards for reclaimed domestic wastewater, sets forth the allowable uses for each water quality standard category, and adds toilet and urinal flushing in multifamily residential and nonresidential structures as allowable uses for reclaimed domestic wastewater. Section 3 also authorizes the commission to establish new categories of water quality standards and to recategorize any use of reclaimed domestic wastewater to a less stringent category of water quality standard. Section 3 also authorizes the division of administration in the department of public health and environment to grant variances for uses of reclaimed domestic wastewater.

Sections 1, 2, and 4 make conforming amendments.

1 *Be it enacted by the General Assembly of the State of Colorado:* 2 **SECTION 1.** In Colorado Revised Statutes, 25-8-103, amend 3 (17.5) as follows: 4 **25-8-103. Definitions.** As used in this article 8, unless the context 5 otherwise requires: 6 (17.5) "Reclaimed domestic wastewater" means wastewater that 7 has received treatment IN ACCORDANCE WITH SECTION 25-8-205.7 AND 8 that enables the wastewater to meet the requirements, prohibitions, 9 standards, and concentration limitations adopted by the commission for 10 subsequent reuses other than drinking. 11 **SECTION 2.** In Colorado Revised Statutes, 25-8-205, amend 12 (1)(f) as follows: 13 25-8-205. **Control regulations.** (1) The commission may 14 promulgate control regulations for the following purposes: 15 (f) IN ACCORDANCE WITH SECTION 25-8-205.7, to describe 16 requirements, prohibitions, standards, and concentration limitations on the 17 reuse of reclaimed domestic wastewater for purposes other than drinking 18 that will protect public health and encourage the reuse of reclaimed

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| 1  | domestic wastewater,   |
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| 2  | SECTION 3. In Colorado Revised Statutes, add 25-8-205.7 as             |
| 3  | follows:   |
| 4  | 25-8-205.7. Control regulations for reuse of reclaimed                 |
| 5  | domestic wastewater - definitions - rules. (1) AS USED IN THIS SECTION |
| 6  | UNLESS THE CONTEXT OTHERWISE REQUIRES:                                 |
| 7  | (a) "CATEGORY 1 STANDARD" MEANS A WATER QUALITY                        |
| 8  | STANDARD FOR RECLAIMED DOMESTIC WASTEWATER:                            |
| 9  | (I) REQUIRING, AT A MINIMUM, THAT THE WATER HAS RECEIVED               |
| 10 | SECONDARY TREATMENT WITH DISINFECTION; AND                             |
| 11 | (II) FOR WHICH, AT THE POINT OF COMPLIANCE, THE WATER MEETS            |
| 12 | THE E. COLI AND TOTAL SUSPENDED SOLIDS STANDARDS PROMULGATED BY        |
| 13 | THE COMMISSION FOR CATEGORY 1 WATER.                                   |
| 14 | (b) "CATEGORY 2 STANDARD" MEANS A WATER QUALITY                        |
| 15 | STANDARD FOR RECLAIMED DOMESTIC WASTEWATER:                            |
| 16 | (I) REQUIRING, AT A MINIMUM, THAT THE WATER HAS RECEIVED               |
| 17 | SECONDARY TREATMENT WITH FILTRATION AND DISINFECTION; AND              |
| 18 | (II) FOR WHICH, AT THE POINT OF COMPLIANCE, THE WATER MEETS            |
| 19 | THE E. COLI AND TURBIDITY STANDARDS PROMULGATED BY THE                 |
| 20 | COMMISSION FOR CATEGORY 2 WATER.                                       |
| 21 | (c) "CATEGORY 3 STANDARD" MEANS A WATER QUALITY                        |
| 22 | STANDARD FOR RECLAIMED DOMESTIC WASTEWATER:                            |
| 23 | (I) REQUIRING, AT A MINIMUM, THAT THE WATER HAS RECEIVED               |
| 24 | SECONDARY TREATMENT WITH FILTRATION AND DISINFECTION; AND              |
| 25 | (II) FOR WHICH, AT THE POINT OF COMPLIANCE, THE WATER MEETS            |
| 26 | THE E. COLI AND TURBIDITY STANDARDS PROMULGATED BY THE                 |
| 27 | COMMISSION FOR CATEGORY 3 WATER.                                       |

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| 1  | (d) "E. COLI" MEANS THE ESCHERICHIA COLI BACTERIA THAT ARE           |
|----|--|
| 2  | FOUND IN THE ENVIRONMENT, FOODS, AND THE INTESTINES OF PEOPLE AND    |
| 3  | ANIMALS.   |
| 4  | $(e)(I)\hbox{"Food Crop" Means a Crop Produced for Direct Human}$    |
| 5  | CONSUMPTION OR A TREE THAT PRODUCES NUTS OR FRUIT INTENDED FOR       |
| 6  | DIRECT HUMAN CONSUMPTION.  |
| 7  | (II) "FOOD CROP" DOES NOT INCLUDE A CROP PRODUCED FOR                |
| 8  | ANIMAL CONSUMPTION ONLY; EXCEPT THAT A CROP PRODUCED WHERE           |
| 9  | LACTATING DAIRY ANIMALS FORAGE IS A FOOD CROP.                       |
| 10 | (f) (I) "POINT OF COMPLIANCE" MEANS, EXCEPT AS PROVIDED IN           |
| 11 | SUBSECTION (1)(f)(II) OF THIS SECTION, A POINT, AS IDENTIFIED BY THE |
| 12 | PERSON THAT TREATS THE WATER, IN THE RECLAIMED DOMESTIC              |
| 13 | WASTEWATER TREATMENT PROCESS OR THE RECLAIMED DOMESTIC               |
| 14 | WASTEWATER TRANSPORTATION PROCESS, THAT OCCURS AFTER ALL             |
| 15 | TREATMENT HAS BEEN COMPLETED BUT BEFORE DILUTION AND BLENDING        |
| 16 | OF THE WATER HAS OCCURRED.   |
| 17 | (II) IF RECLAIMED DOMESTIC WASTEWATER IS USED FOR INDOOR             |
| 18 | NONPOTABLE USES WITHIN A BUILDING WHERE PLUMBING FIXTURES ARE        |
| 19 | ACCESSIBLE BY THE GENERAL PUBLIC, "POINT OF COMPLIANCE" IS AT THE    |
| 20 | LOCATION WHERE WATER IS DELIVERED TO THE OCCUPIED PREMISES.          |
| 21 | (2) RECLAIMED DOMESTIC WASTEWATER MAY BE USED AS                     |
| 22 | FOLLOWS:   |
| 23 | (a) IN COMPLIANCE WITH THE CATEGORY 1 STANDARD, FOR:                 |
| 24 | (I) EVAPORATIVE INDUSTRIAL PROCESSES;                                |
| 25 | (II) NONEVAPORATIVE INDUSTRIAL PROCESSES;                            |
| 26 | $(III)\ Nondischarging construction and road maintenance;\\$         |
| 27 | (IV) LANDSCAPE IRRIGATION AT SITES WITH RESTRICTED ACCESS;           |

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| 1  | (V) ZOO OPERATIONS;   |
|----|---|
| 2  | (VI) IRRIGATION OF CROPS THAT ARE NOT FOOD CROPS; AND         |
| 3  | (VII) SILVICULTURE;   |
| 4  | (b) IN COMPLIANCE WITH THE CATEGORY 2 STANDARD, FOR:          |
| 5  | (I) ALL OF THE USES FOR WHICH RECLAIMED DOMESTIC              |
| 6  | WASTEWATER MAY BE USED IN COMPLIANCE WITH THE CATEGORY 1      |
| 7  | STANDARD;   |
| 8  | (II) WASHWATER APPLICATIONS;                                  |
| 9  | (III) LANDSCAPE IRRIGATION AT SITES WITHOUT RESTRICTED        |
| 10 | ACCESS;   |
| 11 | (IV) COMMERCIAL LAUNDRIES;                                    |
| 12 | (V) AUTOMATED VEHICLE WASHING;                                |
| 13 | (VI) MANUAL, NONPUBLIC VEHICLE WASHING; AND                   |
| 14 | (VII) NONRESIDENTIAL FIRE PROTECTION;                         |
| 15 | (c) IN COMPLIANCE WITH THE CATEGORY 3 STANDARD, FOR:          |
| 16 | (I) ALL OF THE USES FOR WHICH RECLAIMED DOMESTIC              |
| 17 | WASTEWATER MAY BE USED IN COMPLIANCE WITH THE CATEGORY 1      |
| 18 | STANDARD AND THE CATEGORY 2 STANDARD;                         |
| 19 | (II) LANDSCAPE IRRIGATION AT SITES THAT ARE CONTROLLED BY     |
| 20 | RESIDENTS;  |
| 21 | (III) RESIDENTIAL FIRE PROTECTION; AND                        |
| 22 | (IV) TOILET AND URINAL FLUSHING IN:                           |
| 23 | (A) MULTIFAMILY RESIDENTIAL STRUCTURES, ONLY IF THE TOILET    |
| 24 | AND URINAL INSTALLATIONS ARE CONDUCTED IN ACCORDANCE WITH     |
| 25 | ARTICLE 58 OF TITLE 12 AND RULES PROMULGATED PURSUANT TO THAT |
| 26 | ARTICLE. ANY TOILET OR URINAL INSTALLATION MUST CONFORM TO    |
| 27 | ARTICLE 58 OF TITLE 12 AND RULES PROMULGATED PURSUANT TO THAT |

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| 1  | ARTICLE.  |
|----|---|
| 2  | (B) Nonresidential structures, only if the toilet and             |
| 3  | URINAL INSTALLATIONS ARE CONDUCTED IN ACCORDANCE WITH ARTICLE     |
| 4  | 58 OF TITLE 12 AND RULES PROMULGATED PURSUANT TO THAT ARTICLE.    |
| 5  | ANY TOILET OR URINAL INSTALLATION MUST CONFORM TO ARTICLE 58 OF   |
| 6  | TITLE 12 AND RULES PROMULGATED PURSUANT TO THAT ARTICLE.          |
| 7  | (3) (a) (I) ON OR BEFORE DECEMBER 31, 2019, AND EXCEPT AS         |
| 8  | PROVIDED IN SUBSECTION (3)(a)(II) OF THIS SECTION, THE COMMISSION |
| 9  | MAY PROMULGATE RULES IN ACCORDANCE WITH THIS SECTION.             |
| 10 | (II) NOTWITHSTANDING SUBSECTION (3)(a)(I) OF THIS SECTION,        |
| 11 | THE STATE PLUMBING BOARD SHALL PROMULGATE RULES GOVERNING THE     |
| 12 | INSTALLATION AND INSPECTION OF TOILET AND URINAL SYSTEMS AND      |
| 13 | STRUCTURES FOR WHICH RECLAIMED DOMESTIC WASTEWATER IS USED        |
| 14 | PURSUANT TO SUBSECTION $(2)(c)(IV)$ OF THIS SECTION.              |
| 15 | (b) IN PROMULGATING RULES IN ACCORDANCE WITH THIS SECTION,        |
| 16 | THE COMMISSION:   |
| 17 | (I) MAY CREATE NEW CATEGORIES OF WATER QUALITY                    |
| 18 | STANDARDS BEYOND THE THREE CATEGORIES SET FORTH IN THIS SECTION;  |
| 19 | AND   |
| 20 | (II) MAY RECATEGORIZE ANY OF THE USES SET FORTH IN                |
| 21 | SUBSECTION (2) OF THIS SECTION TO A LESS STRINGENT CATEGORY OF    |
| 22 | WATER QUALITY STANDARD.   |
| 23 | (c) THE COMMISSION, BY RULE, MAY AUTHORIZE ADDITIONAL USES        |
| 24 | OF RECLAIMED DOMESTIC WASTEWATER FOR ANY OF THE CATEGORIES OF     |
| 25 | WATER QUALITY STANDARDS SET FORTH IN SUBSECTION (2) OF THIS       |
| 26 | SECTION OR MAY CREATE A NEW CATEGORY OF WATER QUALITY             |
| 27 | STANDARD FOR ONE OR MORE ADDITIONAL USES OF RECLAIMED DOMESTIC    |

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| 1  | WASTEWATER.   |
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| 2  | (d) THE COMMISSION MAY PROMULGATE RULES MORE STRINGENT            |
| 3  | THAN THE STANDARDS AND CATEGORIES SET FORTH IN SUBSECTION (2) OF  |
| 4  | THIS SECTION ONLY IF THE COMMISSION:                              |
| 5  | (I) DETERMINES THAT THE STANDARDS AND CATEGORIES SET              |
| 6  | FORTH IN SUBSECTION (2) OF THIS SECTION ARE NOT PROTECTIVE OF     |
| 7  | PUBLIC HEALTH; AND  |
| 8  | (II) IDENTIFIES:  |
| 9  | (A) A DOCUMENTED INCIDENT OF MICROBIAL DISEASE THAT THE           |
| 10 | COMMISSION DETERMINES HAS A REASONABLE POTENTIAL TO AFFECT        |
| 11 | PUBLIC HEALTH AND FOR WHICH THE COMMISSION HAS IDENTIFIED AS      |
| 12 | LIKELY ORIGINATING FROM RECLAIMED DOMESTIC WASTEWATER; OR         |
| 13 | (B) A PEER-REVIEWED PUBLISHED ARTICLE THAT IDENTIFIES A           |
| 14 | POTENTIAL PUBLIC HEALTH RISK POSED BY THE USE OF RECLAIMED        |
| 15 | DOMESTIC WASTEWATER UNDER THE STANDARDS ESTABLISHED IN            |
| 16 | SUBSECTION (2) OF THIS SECTION.                                   |
| 17 | (4) FOLLOWING A PUBLIC STAKEHOLDERS PROCESS, THE WATER            |
| 18 | QUALITY CONTROL DIVISION MAY DEVELOP POLICY, GUIDANCE, OR BEST    |
| 19 | MANAGEMENT PRACTICES THAT ARE CONSISTENT WITH THIS SECTION, AS    |
| 20 | THE DIVISION DEEMS NECESSARY TO IMPLEMENT THIS SECTION.           |
| 21 | (5) IN ADDITION TO THE RELIEF AVAILABLE UNDER SECTION             |
| 22 | 25-8-205 (6), THE DIVISION MAY GRANT A USER OF RECLAIMED DOMESTIC |
| 23 | WASTEWATER A VARIANCE FROM THE WATER QUALITY STANDARDS SET        |
| 24 | FORTH IN SUBSECTION (2) OF THIS SECTION OR ESTABLISHED BY RULE BY |
| 25 | THE COMMISSION PURSUANT TO SUBSECTION (3) OF THIS SECTION IF THE  |
| 26 | USER DEMONSTRATES TO THE DIVISION'S SATISFACTION THAT THE         |
| 27 | PROPOSED USAGE OF RECLAIMED DOMESTIC WASTEWATER WILL              |

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| 1  | SUFFICIENTLY PROTECT PUBLIC HEALTH AND THE ENVIRONMENT.                     |
|----|---|
| 2  | (6) USE OF RECLAIMED DOMESTIC WASTEWATER IS ALLOWED ONLY                    |
| 3  | IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF THE DECREES,                 |
| 4  | CONTRACTS, AND WELL PERMITS APPLICABLE TO THE USE OF THE SOURCE             |
| 5  | WATER RIGHTS OR SOURCE WATER AND ANY RETURN FLOWS THEREFROM                 |
| 6  | SECTION 4. In Colorado Revised Statutes, 25-8-308, amend (1)                |
| 7  | introductory portion and (1)(h) as follows:                                 |
| 8  | 25-8-308. Additional authority and duties of division -                     |
| 9  | penalties. (1) In addition to the authority specified elsewhere in this     |
| 10 | article ARTICLE 8, the division has the power to:                           |
| 11 | (h) Implement a program, in accordance with SECTION 25-8-205.7              |
| 12 | AND rules and orders of the commission, for the reuse of reclaimed          |
| 13 | domestic wastewater for purposes other than drinking.                       |
| 14 | SECTION 5. In Colorado Revised Statutes, 12-58-104, amend                   |
| 15 | (1) introductory portion; and add (1)(e.5) as follows:                      |
| 16 | 12-58-104. Powers of board - fees - rules. (1) In addition to all           |
| 17 | other powers and duties conferred or imposed upon the board by this         |
| 18 | article ARTICLE 58, the board is authorized and empowered to:               |
| 19 | (e.5) PROMULGATE RULES GOVERNING THE INSTALLATION AND                       |
| 20 | INSPECTION OF TOILET AND URINAL SYSTEMS AND STRUCTURES FOR WHICH            |
| 21 | RECLAIMED DOMESTIC WASTEWATER IS USED PURSUANT TO SECTION                   |
| 22 | 25-8-205.7 (2)(c)(IV).  |
| 23 | <b>SECTION 6. Appropriation.</b> For the 2018-19 state fiscal year          |
| 24 | \$25,054 is appropriated to the department of public health and             |
| 25 | environment for use by the water quality control division. This             |
| 26 | appropriation is from the general fund and is based on an assumption that   |
| 27 | the division will require an additional 0.2 FTE. To implement this act, the |

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# division may use this appropriation for the public and private utilities .

| <b>SECTION 7.</b> Act subject to petition - effective date. This act          |
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| takes effect at 12:01 a.m. on the day following the expiration of the         |
| ninety-day period after final adjournment of the general assembly (August     |
| 8, 2018, if adjournment sine die is on May 9, 2018); except that, if a        |
| referendum petition is filed pursuant to section 1 (3) of article V of the    |
| state constitution against this act or an item, section, or part of this act  |
| within such period, then the act, item, section, or part will not take effect |
| unless approved by the people at the general election to be held in           |
| November 2018 and, in such case, will take effect on the date of the          |
| official declaration of the vote thereon by the governor.                     |

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