SENATE BILL No. 1196

November 8, 2018, Introduced by Senator CASPERSON and referred to the Committee on Natural Resources.

A bill to amend 1994 PA 451, entitled "Natural resources and environmental protection act," by amending section 11104 (MCL 324.11104), as amended by 2001 PA 165, and by adding section 11132.

THE PEOPLE OF THE STATE OF MICHIGAN ENACT:

Sec. 11104. (1) "Operator" means the person responsible for
 the overall operation of a disposal, treatment, or storage facility
 with approval of the department either by contract or license.

4 (2) "Site identification number" means a number that is
5 assigned by the United States environmental protection agency
6 ENVIRONMENTAL PROTECTION AGENCY or the United States environmental
7 protection agency's ENVIRONMENTAL PROTECTION AGENCY'S designee to
8 each generator, each transporter, and each treatment, storage, or
9 disposal facility. If the generator or transporter or the
10 treatment, storage, or disposal facility manages wastes that are

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hazardous under this part and the rules promulgated under this part
 but are not hazardous under the solid waste disposal act, site
 identification number means an equivalent number that is assigned
 by the department.

5 (3) "Solid waste" means that term as it is defined in part6 115.

7 (4) "Storage" means the holding of hazardous waste for a
8 temporary period — at the end of which the hazardous waste is
9 treated, disposed of, or stored elsewhere.

10 (5) "Storage facility" means a facility or part of a facility 11 where managed hazardous waste, as defined by rule, is subject to 12 storage. A generator who accumulates managed hazardous waste, as 13 defined by rule, on site in containers or tanks for less than 91 14 days or a period of time prescribed by rule is not a storage 15 facility.

(6) "Surface impoundment" or "impoundment" means a treatment, 16 17 storage, or disposal facility or part of a treatment, storage, or disposal facility that is a natural topographic depression, human-18 19 made excavation, or diked area formed primarily of earthen 20 materials, although it may be lined with human-made materials, that 21 is designed to hold an accumulation of liquid wastes or wastes containing free liquids, and that is not an injection well. Surface 22 23 impoundments include, but are not limited to, holding, storage, 24 settling, and aeration pits, ponds, and lagoons.

(7) "TECHNOLOGICALLY ENHANCED NATURALLY OCCURRING RADIOACTIVE
 MATERIAL" OR "TENORM" MEANS NATURALLY OCCURRING RADIOACTIVE
 MATERIAL WHOSE RADIONUCLIDE CONCENTRATIONS HAVE BEEN INCREASED AS A

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RESULT OF HUMAN PRACTICES. TENORM DOES NOT INCLUDE ANY OF THE
 FOLLOWING:

3 (A) SOURCE MATERIAL, AS DEFINED IN SECTION 11 OF THE ATOMIC
4 ENERGY ACT OF 1954, 42 USC 2014, AND ITS PROGENY IN EQUILIBRIUM.

5 (B) MATERIAL WITH CONCENTRATIONS OF RADIUM-226, RADIUM-228,
6 AND LEAD-210 EACH LESS THAN 5 PICOCURIES PER GRAM.

7 (8) (7) "The solid waste disposal act" means title II of
8 Public Law 89-272. , 42 U.S.C. 6901, 6902 to 6907, 6911, 6912 to
9 6914a, 6915 to 6916, 6921 to 6939e, 6941, 6942 to 6949a, 6951 to
10 6956, 6961 to 6964, 6971 to 6979b, 6981 to 6987, 6991 to 6991i, and
11 6992 to 6992k.

(9) (8) "Transporter" means a person engaged in the off-site
 transportation of hazardous waste by air, rail, highway, or water.

14 (10) (9) "Treatment" means any method, technique, or process, 15 including neutralization, designed to change the physical, 16 chemical, or biological character or composition of any hazardous 17 waste, to neutralize the waste, to recover energy or material 18 resources from the waste, or to render the waste nonhazardous or 19 less hazardous, safer to transport, store, or dispose of, amenable 20 to recovery, amenable to storage, or reduced in volume. Treatment 21 includes any activity or processing designed to change the physical 22 form or chemical composition of hazardous waste so as to render it 23 nonhazardous.

(11) (10) "Treatment facility" means a facility or part of a
facility where managed hazardous waste, as defined by rule, is
subject to treatment.

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(12) (11)"Updated plan" means the updated state hazardous

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1 waste management plan prepared under section 11110.

2 (13) (12) "Vehicle" means a transport vehicle as defined in 49
3 C.F.R. CFR 171.8.

4 SEC. 11132. (1) EXCEPT AS OTHERWISE PROVIDED IN THIS SECTION, 5 A PERSON SHALL NOT DELIVER TO A LANDFILL IN THIS STATE FOR DISPOSAL 6 AND THE OWNER OR OPERATOR OF A LANDFILL SHALL NOT PERMIT DISPOSAL 7 IN THE LANDFILL OF TENORM WITH ANY OF THE FOLLOWING:

8 (A) A CONCENTRATION OF RADIUM-226 MORE THAN 50 PICOCURIES PER
9 GRAM.

10 (B) A CONCENTRATION OF RADIUM-228 MORE THAN 50 PICOCURIES PER 11 GRAM.

12 (C) A CONCENTRATION OF LEAD-210 MORE THAN 260 PICOCURIES PER13 GRAM.

14 (2) EXCEPT AS OTHERWISE SPECIFIED IN THE LANDFILL OPERATING
15 LICENSE, THE OWNER OR OPERATOR OF A LANDFILL SHALL NOT PERMIT A
16 DELIVERY OF TENORM FOR DISPOSAL AT THE LANDFILL UNLESS THE
17 GENERATOR HAS PROVIDED THE FOLLOWING INFORMATION IN WRITING TO THE
18 OWNER OR OPERATOR OF THE LANDFILL:

(A) THE CONCENTRATIONS OF RADIUM-226, RADIUM-228, LEAD-210,
AND ANY OTHER RADIONUCLIDE IDENTIFIED USING GAMMA SPECTROSCOPY, OR
AN EQUIVALENT ANALYTICAL METHOD, IN THE TENORM BASED ON TECHNIQUES
FOR REPRESENTATIVE SAMPLING AND WASTE CHARACTERIZATION APPROVED BY
THE DEPARTMENT.

24 (B) AN ESTIMATE OF THE TOTAL MASS OF THE TENORM.

25 (C) AN ESTIMATE OF THE TOTAL RADIUM-226 ACTIVITY, THE TOTAL
26 RADIUM-228 ACTIVITY, AND THE TOTAL LEAD-210 ACTIVITY OF THE TENORM.
27 (D) THE PROPOSED DATE OF DELIVERY.

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1 (3) THE DEPARTMENT MAY TEST TENORM PROPOSED TO BE DELIVERED TO 2 A LANDFILL.

3 (4) IF REQUESTED BY THE OWNER OR OPERATOR OF A LANDFILL IN AN 4 APPLICATION FOR THE RENEWAL OF OR A MAJOR MODIFICATION TO AN 5 OPERATING LICENSE, THE DEPARTMENT MAY AUTHORIZE WITH CONDITIONS AND 6 LIMITS IN THE OPERATING LICENSE THE DISPOSAL OF TENORM WITH 7 CONCENTRATIONS OF RADIUM-226 MORE THAN 50 PICOCURIES PER GRAM, RADIUM-228 MORE THAN 50 PICOCURIES PER GRAM, OR LEAD-210 MORE THAN 8 9 260 PICOCURIES PER GRAM, OR ANY COMBINATION THEREOF, BUT NOT MORE THAN 500 PICOCURIES PER GRAM FOR EACH RADIONUCLIDE. AN OPERATING 10 11 LICENSE UNDER THIS PART WITH SUCH AN AUTHORIZATION CONSTITUTES A 12 LICENSE FROM THE STATE'S RADIATION CONTROL AUTHORITY UNDER PART 135 13 OF THE PUBLIC HEALTH CODE, 1978 PA 368, MCL 333.13501 TO 333.13537, 14 IF THE CONDITIONS AND PROCEDURES FOR ISSUANCE OF THE OPERATING LICENSE UNDER THIS PART ARE SUFFICIENT TO SATISFY THE LICENSING 15 REQUIREMENTS OF PART 135 OF THE PUBLIC HEALTH CODE, 1978 PA 368, 16 MCL 333.13501 TO 333.13537. 17

18 (5) A REQUEST UNDER SUBSECTION (4) SHALL INCLUDE ALL OF THE 19 FOLLOWING:

20 (A) A RADIATION SAFETY PROGRAM THAT ADDRESSES ALL OF THE21 FOLLOWING:

22 (*i*) PERSONNEL RADIATION PROTECTION.

23 (*ii*) WORKER TRAINING.

24 (*iii*) RADIATION SURVEYS.

25 (*iv*) RADIATION INSTRUMENT CALIBRATION.

26 (v) RECEIPT AND DISPOSAL OF RADIOACTIVE MATERIAL.

27 (vi) EMERGENCY PROCEDURES.

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(vii) RECORD KEEPING.

(B) A REPORT EVALUATING THE RISKS OF EXPOSURE TO RESIDUAL 2 3 RADIOACTIVITY THROUGH ALL RELEVANT PATHWAYS USING A GENERALLY 4 ACCEPTED INDUSTRY MODEL SUCH AS THE ARGONNE NATIONAL LABORATORY 5 RESRAD FAMILY OF CODES OR, IF APPROVED BY THE DEPARTMENT, ANOTHER 6 MODEL. THE REPORT SHALL EVALUATE POTENTIAL RADIATION DOSES TO SITE 7 WORKERS AND MEMBERS OF THE PUBLIC DURING SITE OPERATION AND AFTER SITE CLOSURE. THE REPORT SHALL USE REASONABLE SCENARIOS TO EVALUATE 8 9 THE DOSE TO MEMBERS OF THE PUBLIC.

(C) A DESCRIPTION OF ANY STEPS NECESSARY TO ENSURE THE ANNUAL
 DOSE TO MEMBERS OF THE PUBLIC DURING LANDFILL OPERATION AND AFTER
 SITE CLOSURE WILL BE LESS THAN 25 MILLIREM.

13 (D) A DESCRIPTION OF AN ENVIRONMENTAL MONITORING PROGRAM UNDER
14 SUBSECTION (6).

15 (6) IF TENORM IS DISPOSED AT A LANDFILL, THE OPERATOR OF THE
16 LANDFILL SHALL CONDUCT A MONITORING PROGRAM THAT COMPLIES WITH ALL
17 OF THE FOLLOWING:

18 (A) RADIOLOGICAL MONITORING OF SITE WORKERS AND AT THE
19 LANDFILL PROPERTY BOUNDARY ARE CONDUCTED AS SPECIFIED IN THE
20 LICENSE.

(B) RADIUM-226, RADIUM-228, AND LEAD-210 ARE INCLUDED AMONG
THE PARAMETERS ANALYZED IN LEACHATE AND GROUNDWATER AT THE
FREQUENCY SPECIFIED IN THE LICENSE.

(C) PENETRATING RADIATION, RADIOACTIVITY IN AIR, AND RADON IN
AIR ARE MEASURED AS SPECIFIED IN THE OPERATING LICENSE IF THE
LANDFILL IS USED TO DISPOSE OF TENORM WITH A CONCENTRATION OF
RADIUM-226 MORE THAN 50 PICOCURIES PER GRAM, RADIUM-228 MORE THAN

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50 PICOCURIES PER GRAM, OR LEAD-210 MORE THAN 260 PICOCURIES PER
 2 GRAM.

3 (D) RESULTS OF ALL MONITORING REQUIRED UNDER THIS SUBSECTION
4 ARE INCLUDED IN THE ENVIRONMENTAL MONITORING REPORTS REQUIRED UNDER
5 RULES PROMULGATED UNDER THIS PART AND THE FACILITY OPERATING
6 LICENSE.

7 (7) THE OWNER OR OPERATOR OF A LANDFILL SHALL SUBMIT TO THE
8 DEPARTMENT BY MARCH 15 EACH YEAR A REPORT THAT SUMMARIZES THE
9 INFORMATION OBTAINED UNDER SUBSECTION (2) FOR ALL TENORM DISPOSED
10 AT THE LANDFILL DURING THE PREVIOUS CALENDAR YEAR.

11 (8) THE OWNER OR OPERATOR OF A LANDFILL SHALL DO BOTH OF THE 12 FOLLOWING:

13 (A) ENSURE THAT ALL TENORM IS DEPOSITED AT LEAST 10 FEET BELOW
14 THE BOTTOM OF THE FUTURE LANDFILL CAP.

(B) MAINTAIN RECORDS OF THE LOCATION AND ELEVATION OF TENORM
DISPOSED OF AT THE LANDFILL.

17 Enacting section 1. This amendatory act takes effect 90 days18 after the date it is enacted into law.

19 Enacting section 2. This amendatory act does not take effect20 unless Senate Bill No. 1195

21 of the 99th Legislature is enacted into law.