

118TH CONGRESS  
1ST SESSION

**S.** \_\_\_\_\_

To amend the Public Health Service Act to require the Secretary to award grants, contracts, or cooperative agreements to eligible entities to establish, maintain, or improve activities related to the detection and monitoring of infectious diseases through wastewater for public health emergency preparedness and response purposes, and for other purposes.

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IN THE SENATE OF THE UNITED STATES

Mr. BOOKER (for himself, Mr. KING, and Mr. ROMNEY) introduced the following bill; which was read twice and referred to the Committee on

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**A BILL**

To amend the Public Health Service Act to require the Secretary to award grants, contracts, or cooperative agreements to eligible entities to establish, maintain, or improve activities related to the detection and monitoring of infectious diseases through wastewater for public health emergency preparedness and response purposes, and for other purposes.

1 *Be it enacted by the Senate and House of Representa-*  
2 *tives of the United States of America in Congress assembled,*

1 **SECTION 1. SHORT TITLE.**

2 This Act may be cited as the “Public Health Re-  
3 sponse and Emergency Detection through Integrated  
4 Wastewater Surveillance Act” or the “PREDICT Act”.

5 **SEC. 2. PUBLIC HEALTH RESPONSE AND EMERGENCY DE-**  
6 **TECTION THROUGH INTEGRATED WASTE-**  
7 **WATER SURVEILLANCE.**

8 (a) IN GENERAL.—Subtitle C of title XXVIII of the  
9 Public Health Service Act (42 U.S.C. 300hh–31 et seq.)  
10 is amended by adding at the end the following:

11 **“SEC. 2827. WASTEWATER SURVEILLANCE FOR PATHOGEN**  
12 **DETECTION.**

13 “(a) WASTEWATER SURVEILLANCE SYSTEM.—The  
14 Secretary, acting through the Director of the Centers for  
15 Disease Control and Prevention (in this section referred  
16 to as the ‘Secretary’), and in coordination with other Fed-  
17 eral departments and agencies, shall award grants, con-  
18 tracts, or cooperative agreements to eligible entities to es-  
19 tablish, maintain, or improve activities related to the de-  
20 tection and monitoring of infectious diseases through  
21 wastewater for public health emergency preparedness and  
22 response purposes.

23 “(b) ELIGIBLE ENTITIES.—To be eligible to receive  
24 an award under this section, an entity shall—

1           “(1) be a State, Tribal, or local health depart-  
2           ment, or a partnership between such a health de-  
3           partment and other public and private entities; and

4           “(2) submit to the Secretary an application at  
5           such time, in such manner, and containing such in-  
6           formation as the Secretary may reasonably require,  
7           which shall include—

8                   “(A) a description of activities proposed to  
9                   be carried out pursuant to an award under sub-  
10                  section (a);

11                  “(B) factors such entity proposes to use to  
12                  select wastewater sampling sites;

13                  “(C) a plan for responding, as appropriate,  
14                  to findings from such wastewater sampling,  
15                  consistent with applicable plans developed by  
16                  such entity pursuant to section 319C-1;

17                  “(D) a plan to sustain such wastewater  
18                  surveillance activities described in such applica-  
19                  tion following the conclusion of the award pe-  
20                  riod; and

21                  “(E) any additional information the Sec-  
22                  retary may require.

23           “(c) CONSIDERATION.—In making awards under sub-  
24           section (a), the Secretary may give priority to eligible enti-  
25           ties that have submitted an application that—

1           “(1) details plans to provide public access to  
2           data generated through such wastewater surveillance  
3           activities in a manner that enables comparison to  
4           such data generated by other recipients of an award  
5           under subsection (a); and

6           “(2) provides an assessment of community  
7           needs related to ongoing infectious disease moni-  
8           toring, including burden of infectious diseases that  
9           can be detected in wastewater and availability of  
10          other forms of infectious disease surveillance.

11          “(d) USE OF FUNDS.—An eligible entity shall use  
12          amounts awarded under this section to—

13               “(1) establish, or enhance existing, capacity and  
14               capabilities to conduct wastewater sampling and re-  
15               lated analysis;

16               “(2) conduct wastewater surveillance, as appro-  
17               priate, at individual facilities, institutions, and loca-  
18               tions in rural areas, in which there is an increased  
19               risk of infectious disease outbreaks and wastewater  
20               is not treated through the relevant local utility of  
21               the jurisdiction; and

22               “(3) implement projects that use evidence-based  
23               or promising practices to conduct wastewater sur-  
24               veillance activities.

1       “(e) PARTNERSHIPS.—In carrying out activities  
2 under this section, eligible entities shall identify opportuni-  
3 ties to partner with other public or private entities to le-  
4 verage relevant capabilities maintained by such entities,  
5 as appropriate and consistent with this section.

6       “(f) TECHNICAL ASSISTANCE.—The Secretary, in  
7 consultation with the heads of other applicable Federal  
8 agencies and departments, as appropriate, shall provide  
9 technical assistance to recipients of awards under this sec-  
10 tion to facilitate the planning, development, and imple-  
11 mentation of activities described in subsection (d).

12       “(g) WASTEWATER SURVEILLANCE GUIDANCE.—Not  
13 later than 180 days after the date of enactment of the  
14 PREDICT Act, the Secretary shall issue draft guidance—

15               “(1) to provide recommendations for recipients  
16 of awards under this section regarding—

17                       “(A) the use of assays to promote efficient  
18 wastewater surveillance; and

19                       “(B) the use of assays for data on multiple  
20 infectious diseases; and

21       “(2) to establish standards for—

22                       “(A) wastewater testing methods and  
23 metrics used by such recipients that—

24                               “(i) use a consistent protocol and  
25 process; and

1                   “(ii) sample using scientifically rig-  
2                   orous and sensitive methods; and

3                   “(B) wastewater sample data reporting by  
4                   such recipients to the Secretary.

5           “(h) PUBLIC AVAILABILITY OF DATA.—The Sec-  
6   retary shall publish the data reported under subsection  
7   (g)(2)(B) in a publicly available wastewater surveillance  
8   database and dashboard.

9           “(i) AUTHORIZATION OF APPROPRIATIONS.—To  
10   carry out this section, there is authorized to be appro-  
11   priated such sums as may be necessary for each of fiscal  
12   years 2024 through 2028.”.

13           (b) WASTEWATER SURVEILLANCE RESEARCH.—

14           (1) IN GENERAL.—The Secretary of Health and  
15   Human Services (in this subsection referred to as  
16   the “Secretary”) shall continue to conduct or sup-  
17   port research on the use of wastewater surveillance  
18   to detect and monitor emerging infectious diseases,  
19   which may include—

20           (A) research to improve the efficiency of  
21   wastewater sample collection and analysis and  
22   increase the sensitivity and specificity of waste-  
23   water testing methods; and

24           (B) implementation and development of  
25   evidence-based practices to facilitate the esti-

1           mation of population-level data within a com-  
2           munity.

3           (2) NON-DUPLICATION OF EFFORT.—The Sec-  
4           retary shall ensure that activities carried out under  
5           this subsection do not unnecessarily duplicate efforts  
6           of other agencies and offices within the Department  
7           of Health and Human Services related to wastewater  
8           surveillance.