THE SENATE THIRTY-SECOND LEGISLATURE, 2023 STATE OF HAWAII

S.B. NO. 285 S.D. 2 H.D. 1

A BILL FOR AN ACT

RELATING TO WASTEWATER SYSTEMS.

BE IT ENACTED BY THE LEGISLATURE OF THE STATE OF HAWAII:

1 SECTION 1. The legislature finds that cesspools are contaminating the State's ground water, streams, drinking water, 2 3 and coastal ecosystems. Maintaining the cleanliness of the 4 State's waters is a matter of statewide concern that falls under 5 the legislature's obligation to enact laws pursuant to article 6 XI, section 7, of the Hawaii State Constitution. To address the 7 State's cesspool pollution, Act 125, Session Laws of Hawaii 8 2017, required all cesspools to be upgraded or converted to a septic system or aerobic treatment unit system, or connected to 9 10 a sewerage system before January 1, 2050, and directed the 11 department of health to investigate the number, scope, and 12 location of cesspools that required upgrade, conversion, or 13 connection based on their impact on public health. 14 Additionally, Act 132, Session Laws of Hawaii 2018, established . 15 the cesspool conversion working group to develop a long-range, 16 comprehensive plan for conversion of cesspools statewide by 2050 17 and commissioned a statewide study of sewage contamination in

2023-2637 SB285 HD1 HMS0

S.B. NO. ²⁸⁵ S.D. 2 H.D. 1

1 nearshore marine areas to further supplement studies and reports 2 conducted by the department of health on cesspools. The 3 cesspool conversion working group's 2021 Hawaii cesspool hazard 4 assessment and prioritization tool report identified three 5 prioritization categories: priority levels 1, 2, and 3. 6 Priority level 1 includes areas in the State where cesspools 7 pose the greatest contamination hazard; priority level 2 8 includes areas where cesspools pose a significant contamination 9 hazard; and priority level 3 includes areas where cesspools have 10 a pronounced contamination hazard.

11 The 2021 Hawaii cesspool hazard assessment and 12 prioritization tool report also noted that the geographic 13 coverage of their evaluation only extended across the four main 14 Hawaiian Islands. It further noted that even though the islands 15 of Molokai, Lanai, and Niihau were also impacted by cesspool 16 concerns, these islands were not included in several key 17 datasets necessary to its analysis. Thus, the authors of the 18 2021 Hawaii cesspool hazard assessment and prioritization tool 19 report recommended that a ranking system for these islands also 20 be established.

2023-2637 SB285 HD1 HMS0

S.B. NO. ²⁸⁵ S.D. 2 H D 1

1 The legislature further finds that the following 2 communities were labeled as priority level 1 areas by the 2021 3 Hawaii cesspool hazard assessment and prioritization tool 4 report: Haleiwa, Waimanalo Beach-Homesteads, Hauula-Kaaawa, 5 Makua Valley, Judd Hillside-Lowery Avenue, Waimea-Kahuku, Laie, 6 Kawailoa, Campbell High School, Kaena Point, Kalaheo Avenue, 7 Waianae Kai, and Nanakuli on Oahu; Halama, Kamaole, Kahoma, 8 Keawakapu, Kapalua, Launiupoko, and Spreckelsville on Maui; 9 Holualoa, Kailua, and Kawaihae-Waikoloa on Hawaii island; and 10 Haena-Hanalei, Kekaha-Waimea, and Wailua Homesteads on Kauai. 11 In these areas where homes are not connected to wastewater 12 systems or are too remote to be connected to existing 13 infrastructure, new wastewater technologies and solutions are 14 necessary to transition away from environmentally hazardous 15 cesspools.

16 The legislature additionally finds that, according to 17 recent shoreline erosion management plans, south Molokai has the 18 highest concentration of Hawaiian homestead residential lots 19 located directly on the coast, with approximately fifty lots 20 within two and a half miles of discontiguous shoreline. For 21 Molokai as a whole, the Molokai Health Center reports that forty

2023-2637 SB285 HD1 HMS0

S.B. NO. ²⁸⁵ S.D. 2

1 per cent of the population relies on subsistence farming, 2 hunting, and fishing, which means that having a clean and 3 healthy reef and nearshore environment is crucial for the health 4 of the community, especially the Native Hawaiian community. The 5 coastal plain of south Molokai is underlain by underground 6 rivers of fresh water flowing mauka to makai that affect the 7 fringing reef, an important food source for Molokai Native 8 Hawaiians. A United States Geological Survey report concluded 9 that further inquiry into the range of nutrient sources to 10 groundwater and nutrient concentrations reaching the coast in 11 groundwater discharge will aid in future planning and resource 12 management. Molokai coastal homesteaders will be financially 13 challenged to convert from cesspools to more modern individual 14 wastewater systems, as the median annual household income 15 averaged over the three department of Hawaiian home lands 16 coastal communities was \$42,396 in 2019, according to the 17 American Community Survey of 2019.

18 The legislature additionally finds that new wastewater 19 management solutions could greatly improve public health. 20 Technologies that are reaching a commercial scale for the first 21 time include solutions for individual homes, as well as

2023-2637 SB285 HD1 HMS0

S.B. NO. ²⁸⁵ S.D. 2

1 multi-unit dwellings, apartment buildings, and entire 2 communities. Large wastewater management systems can remove 3 sewage from multi-unit dwellings and apartment buildings. At 4 the municipal scale, these technologies can effectively treat 5 sewage from entire communities for a small fraction of the cost 6 of existing technology now employed in Hawaii. Self-contained, 7 self-powered, and self-cleaning toilets can be used in homes 8 that do not have the capacity to connect to the existing sewer 9 infrastructure. For example, the Puu Opae Kuleana Homestead 10 Settlement Plan, which will offer two hundred fifty homestead 11 lots in Waimea, Kauai, does not include a centralized wastewater 12 service or public water system, and the nearest wastewater 13 treatment plant is over four miles away and thus could benefit 14 from new wastewater solutions. The Anahola Kuleana Homestead 15 Settlement Plan, which will offer one hundred fifteen homestead 16 lots in Kawaihau, Kauai, will similarly benefit from new 17 wastewater solutions.

18 The legislature further finds that on an annual basis, 19 approximately one thousand individual wastewater system 20 applications are processed and reviewed. There are 21 approximately eighty-two thousand cesspools that will be

2023-2637 SB285 HD1 HMS0

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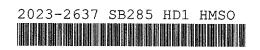
S.B. NO. ²⁸⁵ S.D. 2 H.D. 1

1	required to be upgraded or converted to an approved wastewater		
2	system or connected to a sewer system by 2050 pursuant to		
3	section 342D-72, Hawaii Revised Statutes. It is projected that		
4	individual wastewater system applications may increase up to an		
5	additional three thousand to five thousand applications per year		
6	to meet this mandate. Accordingly, the purpose of this Act is		
7	to:		
8	(1)	Create a new cesspool conversion section within the	
9		department of health's wastewater branch that is	
10		dedicated to facilitating the conversion of cesspools	
11		within the State;	
12	(2)	Establish and appropriate funds for three new full-	
13		time equivalent permanent positions within the new	
14		cesspool conversion section in fiscal years 2023-2024	
15		and 2024-2025 and three additional full-time	
16		equivalent positions in fiscal year 2024-2025; and	
17	(3)	Establish and appropriate funds to implement a	
18		three-year new wastewater system demonstration pilot	
19		program within the University of Hawaii water	
20		resources research center to review, examine, and	
21		demonstrate new wastewater technology systems;	

2023-2637 SB285 HD1 HMSO

S.B. NO. ²⁸⁵ S.D. 2 H.D. 1

1		implement those technologies in wastewater system
2		demonstration projects; and establish a ranking system
3		similar to the Hawaii cesspool prioritization tool for
4		the islands of Molokai, Lanai, and Niihau.
5	SECI	ION 2. Chapter 342D, Hawaii Revised Statutes, is
6	amended b	by adding a new section to part IV to be appropriately
7	designate	ed and to read as follows:
8	" <u>§</u> 34	2D- Wastewater branch; cesspool conversion section.
9	There is	established a cesspool conversion section within the
10	wastewater branch of the department, which shall:	
11	(1)	Support approval of individual wastewater systems
12		applications;
13	(2)	Manage and facilitate various state financing options
14		for the conversion of cesspools in the State;
15	(3)	Develop a comprehensive public outreach and education
16		strategy to educate homeowners about cesspool
17		conversion requirements and resources, and to inform
18	ه	cesspool owners of available financing options and
19		assistance for compliant conversions of cesspools;
20	(4)	Manage any federal, state, or other available grants
21		to assist with the conversion of cesspools;



S.B. NO. 285 S.D. 2 H.D. 1

1	(5)	Secure available federal funding that may be used to
2		assist in the conversion of cesspools; and
3	(6)	Facilitate partnerships with counties, non-
4		governmental organizations, and the private sector
5		relating to the department's responsibilities under
6		this section."
7	SECT	ION 3. There is appropriated out of the water
8	pollution	control revolving fund the sum of \$ or so
9	much there	eof as may be necessary for fiscal year 2023-2024 and
10	the same	sum or so much thereof as may be necessary for fiscal
11	year 2024	-2025 to establish three full-time equivalent (3.0 FTE)
12	permanent	positions, a program specialist VI, a planner IV, and
13	an engine	er, within the cesspool conversion section.
14	The	sums appropriated shall be expended by the department
15	of health	for the purposes of this Act.
16	SECT	ION 4. There is appropriated out of the water
17	pollution	control revolving fund the sum of \$ or so
18	much there	eof as may be necessary for fiscal year 2024-2025 to
19	establish	three full-time equivalent (3.0 FTE) permanent
20	positions	, a program specialist V, a contracts specialist, and
21	an engine	er, within the cesspool conversion section.

2023-2637 SB285 HD1 HMS0

Page 9

S.B. NO. ²⁸⁵ S.D. 2 H.D. 1

1	The	sum appropriated shall be expended by the department of
2	health fo	r the purposes of this Act.
3	SECT	ION 5. (a) There is established a three-year new
4	wastewate	r system demonstration pilot program within the
5	Universit	y of Hawaii water resources research center.
6	(b)	The University of Hawaii water resources research
7	center shall:	
8	(1)	Examine and demonstrate new wastewater technology
9		systems, ranging from individual toilets to
10		significantly larger multi-unit systems and options
11		for community scale solutions as appropriate, as well
12		as review and evaluate the affordability, feasibility,
13		and efficiency of the treatment technologies;
14	(2)	Administer no less than four wastewater system
15		demonstration projects implementing new toilet and
16		sewage treatment technologies; provided that:
17		(A) Each project shall include a cesspool in an area
18		designated as priority level 1 by the cesspool
19		conversion working group's prioritization tool
20		report;

S.B. NO. ²⁸⁵ S.D. 2 H.D. 1

1		(B) There shall be no less than one project in each
2		county; and
3		(C) There shall be no less than one project on the
4		island of Molokai;
5	(3)	Document, validate, and summarize the various tests,
6		research, and outcomes of each wastewater system
7		demonstration project; and
8	(4)	Establish a ranking system similar to the Hawaii
9		cesspool prioritization tool for the islands of
10		Molokai, Lanai, and Niihau.
11	(C)	The University of Hawaii water resources research
12	center sh	all submit an annual report to the legislature no later
13	than twen	cy days prior to the convening of each regular session
14	for the d	aration of the pilot program. Each report shall
15	include:	
16	. (1)	Information on the new wastewater technology systems
17		reviewed and implemented;
18	(2)	The number of cesspools converted pursuant to the
19		pilot program;
20	(3)	The costs incurred to convert each cesspool;

2023-2637 SB285 HD1 HMS0

S.B. NO. ²⁸⁵ S.D. 2 H.D. 1

1 Recommendations on how to improve the efficiency of (4) 2 the pilot program; 3 (5)Comments on whether the pilot program should be made 4 permanent; and 5 (6) Any other recommendations the University of Hawaii 6 water resources research center deems appropriate. The pilot program shall cease to exist on June 30, 7 (d) 8 2026. 9 SECTION 6. There is appropriated out of the general 10 revenues of the State of Hawaii the sum of \$ or so 11 much thereof as may be necessary for fiscal year 2023-2024 for 12 the University of Hawaii water resources research center, in 13 cooperation and consultation with the department of health, 14 department of Hawaiian home lands, and University of Hawaii college of engineering, to implement the new wastewater system 15 16 demonstration pilot program established pursuant to this Act. 17 The appropriation made by this section shall not lapse at 18 the end of the fiscal year for which the appropriation is made; 19 provided that all moneys from the appropriation unencumbered as 20 of June 30, 2026, shall lapse as of that date.

2023-2637 SB285 HD1 HMS0

S.B. NO. 285 S.D. 2 H.D. 1

The sum appropriated shall be expended by the University of
Hawaii for the purposes of this Act.

3 SECTION 7. New statutory material is underscored.

4 SECTION 8. This Act shall take effect on June 30, 3000.



Report Title:

Department of Health; Wastewater Branch; Cesspool Conversion Section; Cesspools; New Wastewater System Demonstration Pilot Project; Report; Appropriations

Description:

2023-2637 SB285 HD1 HMS0

Creates within the Department of Health's wastewater branch a cesspool conversion section, which will be responsible for facilitating the conversion of cesspools within the State. Establishes and appropriates funds for three full-time equivalent positions within the cesspool conversion section in fiscal years 2023-2024 and 2024-2025 and three additional fulltime equivalent positions within the section in fiscal year 2024-2025. Establishes a three-year New Wastewater System Demonstration Pilot Program within the University of Hawaii Water Resources Research Center to examine and demonstrate new wastewater technology systems; implement those technologies in demonstration projects in areas across the State that are identified as Priority Level 1; and establish a similar ranking system for prioritization levels for the islands of Molokai, Lanai, and Niihau. Requires the University of Hawaii Water Resources Research Center to submit reports to the Legislature. Appropriates funds for the pilot program. Effective 6/30/3000. (HD1)

The summary description of legislation appearing on this page is for informational purposes only and is not legislation or evidence of legislative intent.