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
- 2 contaminating the State's groundwater, streams, drinking water,
- 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
- 6 article XI, section 7, of the Hawaii State Constitution. To
- 7 address the State's cesspool pollution, Act 125, Session Laws of
- 8 Hawaii 2017, required all cesspools to be upgraded or converted
- 9 to a septic system or aerobic treatment unit system or connected
- 10 to a sewerage system before January 1, 2050, with certain
- 11 exemptions. Act 125 also directed the department of health to
- 12 investigate the number, scope, and location of cesspools that
- 13 required upgrade, conversion, or connection based on their
- 14 impact on public health. Additionally, Act 132, Session Laws of
- 15 Hawaii 2018, established the cesspool conversion working group
- 16 to develop a long-range, comprehensive plan for the conversion
- 17 of cesspools statewide by 2050 and commissioned a statewide

- 1 study of sewage contamination in nearshore marine areas to
- 2 further supplement studies and reports conducted by the
- 3 department of health on cesspools. The cesspool conversion
- 4 working group's 2021 Hawaii cesspool hazard assessment and
- 5 prioritization tool report identified three prioritization
- 6 categories: priority levels 1, 2, and 3. Priority level 1
- 7 cesspools have the greatest potential to impact human health and
- 8 are directly adjacent to sensitive natural resources; priority
- 9 level 2 cesspools pose a significant hazard to human health and
- 10 may be close to sensitive natural resources; and priority level
- 11 3 cesspools have an impact on human health but may be further
- 12 away from sensitive natural resources.
- 13 The 2021 Hawaii cesspool hazard assessment and
- 14 prioritization tool report also noted that the geographic
- 15 coverage of their evaluation only extended across the four main
- 16 Hawaiian islands. It further noted that even though the islands
- 17 of Molokai, Lanai, and Niihau were also impacted by cesspools,
- 18 these islands were not included in several key datasets
- 19 necessary for its analysis. Thus, the authors of the 2021
- 20 Hawai'i Cesspool Hazard Assessment and Prioritization Tool, 2021

- 1 Report and Technical Appendices, recommended that a ranking
- 2 system for these islands also be established.
- 3 The legislature further finds that the following
- 4 communities were labeled as priority level 1 areas by the 2021
- 5 Hawaii cesspool hazard assessment and prioritization tool
- 6 report: Haleiwa, Waimanalo Beach-Homesteads, Hauula-Kaaawa,
- 7 Makua Valley, Judd Hillside-Lowery Avenue, Waimea-Kahuku, Laie,
- 8 Kawailoa, Campbell High School, Kaena Point, Kalaheo Avenue,
- 9 Waianae Kai, and Nanakuli on Oahu; Halama, Kamaole, Kahoma,
- 10 Keawakapu, Kapalua, Launiupoko, and Spreckelsville on Maui;
- 11 Holualoa, Kailua, and Kawaihae-Waikoloa on Hawaii island; and
- 12 Haena-Hanalei, Kekaha-Waimea, and Wailua Homesteads on Kauai.
- 13 In these areas where homes are not connected to wastewater
- 14 systems or are too remote to be connected to existing
- 15 infrastructure, new wastewater technologies and solutions are
- 16 necessary to transition away from environmentally hazardous
- 17 cesspools.
- 18 The legislature additionally finds that, according to
- 19 recent shoreline erosion management plans, south Molokai has the
- 20 highest concentration of Hawaiian homestead residential lots
- 21 located directly on the coast, having approximately fifty lots

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

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

S.B. NO. 2513 S.D. 2 H.D. 3

1	(1)	Establish and appropriate funds to implement a three-
2		year new wastewater system and individual wastewater
3		system technology demonstration and implementation
4		pilot program within the university of Hawaii water
5		resources research center to review, examine, and
6		demonstrate new wastewater technology systems;
7		implement those technologies in wastewater system
8		demonstration projects; and establish prioritization
9		categories similar to those established in the Hawaii
10		cesspool hazard assessment and prioritization tool for
11		the islands of Molokai, Lanai, and Niihau; and
12	(2)	Appropriate funds for positions within the department
13		of health's wastewater branch.
14	SECT	ION 2. (a) There is established a three-year new
15	wastewate	r system and individual wastewater system technology
16	demonstra	tion and implementation pilot program within the
17	universit	y of Hawaii water resources research center.
18	(b)	The university of Hawaii water resources research

center, in coordination with the university of Hawaii sea grant

health, department of Hawaiian home lands, university of Hawaii

college program and in consultation with the department of

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1 college of engineering, and all appropriate county agencies, 2 shall: 3 (1) Examine and demonstrate new wastewater and cesspool 4 technology systems, ranging from individual toilets to significantly larger multi-unit systems and options 5 6 for community-scale solutions as appropriate, and 7 review and evaluate the affordability, feasibility, 8 and efficiency of the treatment technologies; 9 (2) Administer no less than four cesspool system 10 demonstration projects implementing new toilet and 11 sewage treatment technologies; provided that each 12 project shall include a cesspool in an area designated 13 as priority level 1 by the 2021 Hawaii Cesspool Hazard 14 Assessment and Prioritization Tool, 2021 Report and 15 Technical Appendices; provided further that there 16 shall be no less than one project in each county; provided further that there shall be no less than one 17 project on the island of Molokai; 18 19 (3) Document, validate, and summarize the various tests, 20 research, and outcomes of each cesspool system

demonstration project; and

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S.B. NO. ²⁵¹³ S.D. 2 H.D. 3

1	(4)	Establish a ranking system similar to the	
2		prioritization categories established in the 2021	
3		Hawaii Cesspool Hazard Assessment and Prioritization	
4		Tool, 2021 Report and Technical Appendices, for the	
5		islands of Molokai, Lanai, and Niihau.	
6	(c)	The university of Hawaii water resources research	
7	center sh	all submit an annual interim report to the legislature	
8	no later	than twenty days prior to the convening of each regular	
9	session f	or the duration of the pilot program and a final report	
10	to the legislature no later than twenty days prior to the		
11	convening	of the regular session of 2028. The reports shall	
12	include:		
13	(1)	Information on the new wastewater and cesspool	
14		technology systems reviewed and implemented;	
15	(2)	The number of cesspools converted pursuant to the	
16		<pre>pilot program;</pre>	
17	(3)	The costs incurred to convert each cesspool;	
18	(4)	Recommendations on how to improve the efficiency of	
19		the pilot program;	
20	(5)	Whether the pilot program should be made permanent;	
21		and	

1 (6) Any other recommendations that the university of 2 Hawaii water resources research center deems 3 appropriate. 4 (d) The pilot program shall cease to exist on June 30, 5 2027. 6 SECTION 3. In accordance with section 9 of article VII, of the Constitution of the State of Hawaii and sections 37-91 and 7 37-93, Hawaii Revised Statutes, the legislature has determined 8 that the appropriations contained in this Act will cause the 9 state general fund expenditure ceiling for fiscal year 2024-2025 10 11 to be exceeded by \$, or per cent. The reasons 12 for exceeding the general fund expenditure ceiling are that the 13 appropriations made in this Act are necessary to serve the 14 public interest and to meet the needs provided for by this Act. 15 SECTION 4. There is appropriated out of the general 16 revenues of the State of Hawaii the sum of \$ or so much 17 thereof as may be necessary for fiscal year 2024-2025 to implement the new wastewater system and individual wastewater 18 19 system technology demonstration and implementation pilot program established pursuant to this Act. 20

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         The sum appropriated shall be expended by the university of
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    Hawaii for the purposes of this Act.
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         SECTION 5. There is appropriated out of the general
    revenues of the State of Hawaii the sum of:
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                        or so much thereof as may be necessary for
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         (1) $
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              fiscal year 2024-2025 to fund full-time
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              equivalent ( FTE) engineer V (SR-26) position
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              within the department of health's wastewater branch;
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              and
10
        (2) $
                       or so much thereof as may be necessary for
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              fiscal year 2024-2025 to establish full-time
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              equivalent ( FTE) engineer IV (SR-24) position
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              within the department of health's wastewater branch,
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    to support the approval of individual wastewater systems
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    applications and the new wastewater system and individual
    wastewater system technology demonstration and implementation
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    pilot program established pursuant to this Act.
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         The sum appropriated shall be expended by the department of
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    health for the purposes of this Act.
         SECTION 6. This Act shall take effect on July 1, 3000.
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Report Title:

UH; Water Resources Research Center; New Wastewater System and Individual Wastewater System Technology Demonstration and Implementation Pilot Project; Reports; Positions; Appropriations; Expenditure Ceiling

Description:

Establishes a 3-year new wastewater system and individual wastewater system technology demonstration and implementation pilot program within the University of Hawaii Water Resources Research Center to examine and demonstrate new wastewater and cesspool technology systems; implement those technologies in demonstration projects in areas across the State that are identified as priority level 1 in the 2021 Hawaii Cesspool Hazard Assessment and Prioritization Tool, 2021 Report and Technical Appendices; and establish similar prioritization categories for the islands of Molokai, Lanai, and Niihau. Requires the University of Hawaii Water Resource Research Center to submit annual interim reports and a final report to the Legislature. Establishes positions. Makes appropriations. Effective 7/1/3000. (HD3)

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