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 ground water, 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. То 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 10 connected to a sewerage system before January 1, 2050, and 11 directed the department of health to investigate the number, 12 scope, and location of cesspools that required upgrade, 13 conversion, or connection based on their impact on public 14 Additionally, Act 132, Session Laws of Hawaii 2018, health. 15 established the cesspool conversion working group to develop a 16 long-range, comprehensive plan for the conversion of cesspools 17 statewide by 2050 and commissioned a statewide study of sewage



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



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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; 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, having approximately fifty lots 20 within two and a half miles of noncontiguous shoreline. For 21 Molokai as a whole, the Molokai Health Center reports that forty

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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 of the community, especially the Native Hawaiian community. 4 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 Native Hawaiians 8 residing on Molokai. A United States Geological Survey report 9 concluded that further inquiry into the range of nutrient 10 sources to groundwater and nutrient concentrations reaching the 11 coast in groundwater discharge will aid in future planning and 12 resource management. Molokai coastal homesteaders will be 13 financially challenged to convert cesspools to more modern 14 individual wastewater systems, as the median annual household 15 income 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

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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 the municipal scale, these technologies can effectively treat 4 sewage from entire communities for a small fraction of the cost 5 6 of existing technology now employed in Hawaii. Self-contained, 7 self-powered, and self-cleaning toilets can be used in homes that do not have the capacity to connect to the existing sewer 8 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 more than four miles away and thus could 14 benefit from new wastewater solutions. The Anahola Kuleana 15 Homestead Settlement Plan, which will offer one hundred fifteen 16 homestead lots in Kawaihau, Kauai, will similarly benefit from 17 new wastewater solutions.

18 The legislature further finds that approximately one 19 thousand individual wastewater system applications are processed 20 and reviewed each year. There are approximately eighty-two 21 thousand cesspools that will be required to be upgraded or

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1 converted to an approved wastewater system or connected to a 2 sewer system by 2050 pursuant to section 342D-72, Hawaii Revised 3 Statutes. It is projected that individual wastewater system 4 applications may increase up to an additional three thousand to 5 five thousand applications per year to meet this mandate. 6 Accordingly, the purpose of this Act is to: 7 Establish and appropriate funds to implement a (1)8 three-year new wastewater system demonstration pilot 9 program within the university of Hawaii water 10 resources research center to review, examine, and 11 demonstrate new wastewater technology systems; 12 implement those technologies in wastewater system 13 demonstration projects; and establish a ranking system 14 similar to the Hawaii cesspool prioritization tool for 15 the islands of Molokai, Lanai, and Niihau; and 16 Appropriate moneys for two full-time equivalent (2) 17 (2.0 FTE) positions within the department of health's wastewater branch. 18 19 SECTION 2. (a) There is established a three-year new 20 waste management solution and cesspool system demonstration

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pilot program within the university of Hawaii water resources
 research center.

3 (b) The university of Hawaii water resources research
4 center, in consultation with the department of health,
5 department of Hawaiian home lands, the university of Hawaii
6 college of engineering, and all appropriate county agencies,
7 shall:

8 (1)Examine and demonstrate new wastewater and cesspool 9 technology systems, ranging from individual toilets to 10 significantly larger multi-unit systems and options 11 for community-scale solutions as appropriate, and review and evaluate the affordability, feasibility, 12 13 and efficiency of the treatment technologies; Administer not less than four cesspool system 14 (2) 15 demonstration projects implementing new toilet and 16 sewage treatment technologies; provided that each 17 project shall include a cesspool in an area designated 18 as a priority level 1 by the cesspool conversion 19 working group's prioritization tool report; provided 20 further that there shall be no less than one project

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in each county; provided further that there shall be 1 2 no less than one project on the island of Molokai; 3 (3) Document, validate, and summarize the various tests, research, and outcomes of each cesspool system 4 5 demonstration project; and 6 (4) Establish a ranking system similar to the Hawaii 7 cesspool prioritization tool for the islands of 8 Molokai, Lanai, and Niihau. 9 The university of Hawaii water resources research (C) 10 center shall submit an annual report to the legislature no later 11 than twenty days prior to the convening of each regular session for the duration of the pilot program. The reports shall 12 13 include: 14 (1) Information on the new wastewater and cesspool 15 technology systems reviewed and implemented; 16 (2)Cesspools converted pursuant to the pilot program; 17 (3) The costs incurred to convert each cesspool; 18 (4) Recommendations on how to improve the efficiency of 19 the pilot program; 20 Whether the pilot program should be made permanent; (5) 21 and

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(6) Any other recommendations that the university of 1 2 Hawaii water resources research center deems 3 appropriate. The pilot program shall cease to exist on June 30, 4 (d) 5 2027. 6 SECTION 3. In accordance with section 9 of article VII, of 7 the Constitution of the State of Hawaii and sections 37-91 and 8 37-93, Hawaii Revised Statutes, the legislature has determined 9 that the appropriation contained in this Act will cause the 10 state general fund expenditure ceiling for fiscal year 2024-2025 11 to be exceeded by \$, or per cent. The reasons 12 for exceeding the general fund expenditure ceiling are that the 13 appropriation made in this Act is necessary to serve the public 14 interest and to meet the need 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 \$3,025,468 or so much

17 thereof as may be necessary for fiscal year 2024-2025 to
18 implement the new waste management solution and cesspool system
19 demonstration pilot program established pursuant to this Act.

20 The sum appropriated shall be expended by the university of21 Hawaii water resources research center.



| 1 | SECTION 5. There is appropriated out of the general | |
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| 2 | revenues | of the State of Hawaii the sum of: |
| 3 | (1) | \$89,500 or so much thereof as may be necessary for |
| 4 | | fiscal year 2023-2024 and the same sum or so much |
| 5 | | thereof as may be necessary for fiscal year 2024-2025 |
| 6 | | to fund one full-time equivalent (1.0 FTE) engineer V |
| 7 | | position within the department of health's wastewater |
| 8 | | branch; and |
| 9 | (2) | \$82,700 or so much thereof as may be necessary for |
| 10 | | fiscal year 2023-2024 and the same sum or so much |
| 11 | | thereof as may be necessary for fiscal year 2024-2025 |
| 12 | | to establish one full-time equivalent (1.0 FTE) |
| 13 | | engineer IV position within the department of health's |
| 14 | | wastewater branch, |
| 15 | to support the approval of individual wastewater systems | |
| 16 | applications and the new waste management solution and cesspool | |
| 17 | system demonstration pilot program established pursuant to this | |
| 18 | Act. | |
| 19 | The | sums appropriated shall be expended by the department |
| 20 | of health. | |
| 21 | SECTION 6. This Act shall take effect on July 1, 2024. | |



Report Title:

UH; Cesspools; New Waste Management Solution and Cesspool System Demonstration Pilot Project; Report; Positions; Expenditure Ceiling; Appropriations

Description:

Establishes a 3-year new waste management solution and cesspool system demonstration 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 Report; 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 annual reports to the Legislature. Establishes positions. Declares that the general fund expenditure ceiling is exceeded. Makes appropriations. (SD1)

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