21-03199

## SENATE STATE OF MINNESOTA NINETY-SECOND SESSION

## S.F. No. 1919

 

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 DATE
 D-PG
 OFFICIAL STATUS

 03/10/2021
 Introduction and first reading Referred to Health and Human Services Finance and Policy

1.1	A bill for an act
1.2 1.3 1.4 1.5	relating to wells and borings; adding a definition for closed loop heat exchangers; specifying that a closed loop heat exchanger is an environmental well for purposes of chapter 103I; amending Minnesota Statutes 2020, section 103I.005, subdivisions 8a, 11, by adding a subdivision.
1.6	BE IT ENACTED BY THE LEGISLATURE OF THE STATE OF MINNESOTA:
1.7 1.8	Section 1. Minnesota Statutes 2020, section 103I.005, is amended by adding a subdivision to read:
1.9	Subd. 2b. Closed-loop heat exchanger. "Closed-loop heat exchanger" means a heating
1.10	device consisting of a closed-loop piping system installed in an environmental well to
1.11	transfer heat to or from the aquifer with no discharge. A closed-loop heat exchanger may:
1.12	(1) be designed and constructed using any criteria or material approved for the
1.13	construction of water wells;
1.14	(2) contain biocide and anti-corrosion agents NSF-60 approved or USP-grade or
1.15	food-grade propylene glycol;
1.16	(3) have the wellbore designed with no rise, sump, or lead pipe limits as long as screens
1.17	are used within one aquifer;
1.18	(4) have removeable downhole equipment, including the heat exchanger pump and
1.19	piping; and
1.20	(5) be treated as a single system based on total tonnage consistent with current geothermal
1.21	permit fees.

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	02/23/21	REVISOR	SGS/KM	21-03199	as introduced		
2.1	Sec. 2. Minnesota Statutes 2020, section 103I.005, subdivision 8a, is amended to read:						
2.2	Subd. 8a. Environmental well. "Environmental well" means an excavation 15 or more						
2.3	feet in depth that is drilled, cored, bored, washed, driven, dug, jetted, or otherwise constructed						
2.4	to:						
2.5	(1) conduc	et physical, chemi	cal, or biological	testing of groundwater, a	and includes a		
2.6	groundwater quality monitoring or sampling well;						
2.7	(2) lower a groundwater level to control or remove contamination in groundwater, and						
2.8	includes a remedial well and excludes horizontal trenches; or						
2.9	(3) hold a closed-loop heat exchanger; or						
2.10	(4) monitor or measure physical, chemical, radiological, or biological parameters of the						
2.11	earth and earth fluids, or for vapor recovery or venting systems. An environmental well						
2.12	includes an excavation used to:						
2.13	(i) measure groundwater levels, including a piezometer;						
2.14	(ii) determine groundwater flow direction or velocity;						
2.15	(iii) measure earth properties such as hydraulic conductivity, bearing capacity, or						
2.16	resistance;						
2.17	(iv) obtain samples of geologic materials for testing or classification; or						
2.18	(v) remove or remediate pollution or contamination from groundwater or soil through						
2.19	the use of a vent, vapor recovery system, or sparge point.						
2.20	An environmental well does not include an exploratory boring.						
2.21	Sec. 3. Minn	nesota Statutes 202	20, section 103I.	005, subdivision 11, is an	nended to read:		
2.22	Subd. 11. Groundwater thermal exchange device. "Groundwater thermal exchange						
2.23	device" means a heating or cooling device that depends on extraction and reinjection of						
2.24	groundwater from an independent aquifer to operate, but does not include a closed-loop						
2.25	heat exchanger.						