SF1919 REVISOR SGS S1919-1 1st Engrossment

SENATE STATE OF MINNESOTA NINETY-SECOND SESSION

S.F. No. 1919

(SENATE AUTHORS: NELSON, Draheim, Koran, Duckworth and Lang)

DATE 03/10/2021 799 Introduction and first reading Referred to Health and Human Services Finance and Policy 02/28/2022 5164 Chief author stricken, shown as co-author Draheim Chief author added Nelson 03/29/2022 5893a Comm report: To pass as amended and re-refer to Finance

1.1 A bill for an act

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relating to wells and borings; adding a definition for a submerged closed loop exchanger; specifying a water supply well includes a well containing a submerged closed loop heat exchanger; specifying requirements for a submerged closed loop heat exchanger; amending Minnesota Statutes 2020, section 103I.005, subdivisions 17a, 20a, by adding a subdivision; proposing coding for new law in Minnesota Statutes, chapter 103I.

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

1.9 Section 1. Minnesota Statutes 2020, section 103I.005, subdivision 17a, is amended to read:

Subd. 17a. Temporary boring Submerged closed loop heat exchanger. "Temporary boring" "Submerged closed loop heat exchanger" means an excavation that is 15 feet or more in depth, is sealed within 72 hours of the time of construction, and is drilled, cored, washed, driven, dug, jetted, or otherwise constructed to a heating and cooling system that:

- (1) conduct physical, chemical, or biological testing of groundwater, including groundwater quality monitoring is installed in a water supply well;
- (2) monitor or measure physical, chemical, radiological, or biological parameters of earth materials or earth fluids, including hydraulic conductivity, bearing capacity, or resistance utilizes the convective flow of groundwater as the primary medium of heat exchange;
- 1.21 (3) measure groundwater levels, including use of a piezometer contained potable water

 1.22 as the heat transfer fluid; and

Section 1.

Sec. 3. 2

(4) for heating or cooling; and

or public water supply.

(5) for containing a submerged closed loop heat exchanger; and

(6) for testing water yield for irrigation, commercial or industrial uses, residential supply,

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3.1	Sec. 4. [1031.631] INSTALLATION OF A SUBMERGED CLOSED LOOP HEAT
3.2	EXCHANGER.
3.3	Subdivision 1. Installation. Notwithstanding any other provision of law, the
3.4	commissioner must allow the installation of a submerged closed loop heat exchanger in a
3.5	water supply well. A project may consist of more than one water supply well on a particular
3.6	site.
3.7	Subd. 2. Setbacks. Water supply wells used only for the nonpotable purpose of providing
3.8	heating and cooling using a submerged closed loop heat exchanger are exempt from isolation
3.9	distance requirements greater than ten feet.
3.10	Subd. 3. Construction. The screened interval of a water supply well constructed to
3.11	contain a submerged closed loop heat exchanger completed within a single aquifer may be
3.12	designed and constructed using any combination of screen, casing, leader, riser, sump, or
3.13	other piping combinations, so long as the screen configuration does not interconnect aquifers
3.14	Subd. 4. Permits. A submerged closed loop heat exchanger is not subject to the permi
3.15	requirements in this chapter.
3.16	Subd. 5. Variances. A variance is not required to install or operate a submerged closed
3.17	loop heat exchanger.

Sec. 4. 3