

WATER PERMIT NO. 8889-3

Name of Applicant: **Ronald Jongeling**

Address: **45950 191st Street, Castlewood SD 57223**

Phone: **605-873-2853**

Amount of Water Claimed: **0.67 cfs Add'l**

Total Acres: **9**

Source of Water Supply: **Groundwater**

Water to be used for: **Irrigation**

County: **Hamlin**

Type of Waste Disposal System:

Location: **Approx. 7 miles north of Castlewood SD**

PRIORITY

Date Received: **07-31-24**

Application/License Fee: **\$500.00**

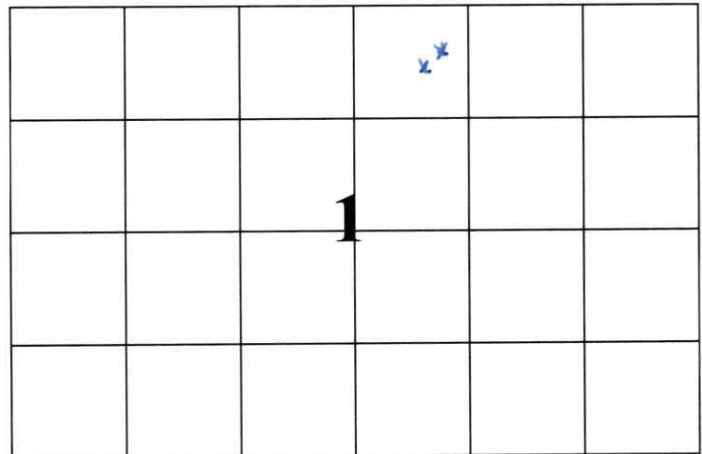
Corrected Application Received: **N/A**

Period of Annual Use: **April 1 – October 31**

Remarks: **Based on an inspection by De Boer, irrigating 9 acres more than authorized.**

Diversion Point: **NW 1/4 NE 1/4 Sec 1-T113N-R52W**

Land to be Irrigated: **E 1/2, SE 1/4 NW 1/4, NE 1/4 SW 1/4 Sec1-T113N-R52W**



Depth of Well: **37**

Well Driller: **Bullis Brothers**

Remarks:

Type of Map: **aerial**

Reviewed and the Number Assigned on: **08-01-24**

By: **Rachel Rodriguez**

Notice of Hearing - date to intervene: _____

SOUTH DAKOTA
WATER PERMIT NO. 8889-3

Date of first receipt of application July 31, 2024.

The Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 8889-3 to Ronald Jongeling, 45950 191st Street, Castlewood SD 57223, authorizing the construction of the water use system and the placing of water to beneficial use subject to the following limitations, conditions and qualifications:

1. Water Permit No. 8889-3 appropriates an additional 0.67 cubic feet of water per second (cfs) from two existing wells authorized by Water Right No. 2528-3 and Permit No. 8669-3 to irrigate 9 additional acres. Water Right No. 2528-3 and Water Permit No. 8669-3, combined, appropriate 1.11 cfs from two wells completed into the Big Sioux: Brookings Aquifer located in the NW 1/4 NE 1/4 Section 1 for irrigation of 191 acres located in the S 1/2 NE 1/4, SE 1/4 Section 1; all in T113N-R52W. An inspection for the purpose of licensing found the system capable of diverting an additional 0.67 cfs from the two existing wells and irrigating 9 additional acres within the area described above plus the N 1/2 NE 1/4, SE 1/4 NW 1/4, NE 1/4 SW 1/4 Section 1-T113N-R52W. This Permit, Water Right No. 2528-3, and Water Permit No. 8669-3 will authorize a combined total of 1.78 cfs for irrigation of 200 acres. This site is located approximately seven miles south of Castlewood SD.
2. The amount of the appropriation may not exceed 2 acre feet annually for each acre of land to which water is actually and beneficially applied for irrigation. The water is to be used during the following described annual period: April 1 – October 31.
3. The date from which applicant may claim right is July 31, 2024 (0.67 cfs, 9 acres).
4. The date of approval of Permit No. 8889-3 is October 21, 2024.
5. Water rights obtained in compliance with the laws of the State of South Dakota may not be unlawfully impaired by this appropriation.

QUALIFICATIONS

1. The wells approved under this Permit, Water Right No. 2528-3, and Water Permit No. 8669-3 are located near domestic wells and other wells which may obtain water from the same aquifer. Water withdrawals must be controlled so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.
2. This Permit is approved subject to the irrigation water use questionnaire being submitted each year.

WATER MANAGEMENT BOARD

By: Eric Gronlund
Eric Gronlund, Chief Engineer
Water Rights Program
Department of Agriculture and Natural Resources

NOV 01 2024
date



FORM 2: Application for irrigation in South Dakota
(type or print)

Mail to: SD DANR, Water Rights 523 E Capitol Ave Pierre, SD 57501-3182 ph. (605) 773-3352	No. <u>8889-3</u> Hydrologic Unit <u>10170202</u> Basin <u>Big Sioux</u> Newspaper <u>Castlewood Hamlin Co Republican</u> <u>Watertown Public Opinion</u> (office use only)
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PAID

JUL 31 2024

Ck# 9157

Rec't# _____

Application for Permit to Appropriate Water for Irrigation

Type of Application: ☒ New ☐ Vested Right ☐ Amendment/Correction to Permit No. _____
(Use predates Mar 2, 1955)

Description of amendment/correction: (i.e. change diversion point(s), add diversion point(s), change use, etc.)

1. Name to Appear on Irrigation Permit Ronald Jongeling

Note: The "Name to Appear on Irrigation Permit" must be the name in which the property to be irrigated is held in.

Mailing Address 45950 191st Street Castlewood SD 57223
(Address) (City) (State) (Zip Code)

Phone 605 873 2853 Mobile 605 881 5812 Email _____

2. Amount of water claimed 4067 *CFS or + 300 **GPM N/A ***AF Total Acreage 9.0
(*Cubic Feet per Second) (**Gallons per Minute) (***)Acre Feet - storage capacity of dam/dugout or annual use if applicable)

3. Source of water supply two wells (BS:B) authorized under 2528-3 & 8669-3

4. Location of point of diversion NW 1/4 NE 1/4 Section 1, T113N-R52W
(example - 3 wells in SW1/4 NE1/4 section 12-T104N-R53W)

County Hamlin

5. County or counties where water will be used Hamlin

6. Annual period during which water is to be used April 1 - October 31

7. List below each forty-acre division, or lot, or fraction thereof and show number of acres to be irrigated in each.
(Attach sheet if more space is needed)

Land Description	Acres	Land Description	Acres
E 1/2	6.0		
SE 1/4 NW 1/4	1.5		
NE 1/4 SW 1/4	1.5		
All in Section 1, T113N-R52W			

8. Give a description of the project. (Attach sheet if more space is needed) Due to the inspection of Daniel DeBour he found 9 more acres than I had requested before I put the system up. We want to increase the water gallons per min to compensate for the additional land previous gal. 500 + 300

I, Ronald Jongeling, the applicant, certify under
Name of Person Title (if applicable)

penalty of perjury that I have read this application, examined the attached map, and that the matters stated are true. I further certify, if acting on behalf of an entity or individual other than myself, that I am authorized to submit this application.

2021-08

Attachments: Attach Form 2A if diversion is from a well or dugout, or if storage of water is proposed. Also, attach map and any other technical information. (see instructions)

Supplemental Information

(type or print)

1. Well Information (check one or both as applicable)

☐ Drilling new well(s) ☒ Using existing well(s)

- a) If new wells, how many _____ Have test holes been drilled? ☐ Yes ☐ No Drilled by _____
(if yes, please provide copies of logs)
- b) If existing wells, how many 2 Provide copy of log(s), if available. Drilled by _____

For either existing or proposed wells: (see 2528-3 & 8669-3)

- c) Well Depth (required) _____ Depth to Top of Water Bearing Material _____ Depth to Water from Surface _____
- d) Distance to nearest domestic well on applicant's property _____ Property owned by others _____

2. Wastewater Disposal System Information

- a) Type of System (i.e. septic tank, drain field) _____
- b) System Capacity (gallons) _____ Year Constructed _____
- c) Connected to the City of _____ Sanitary System

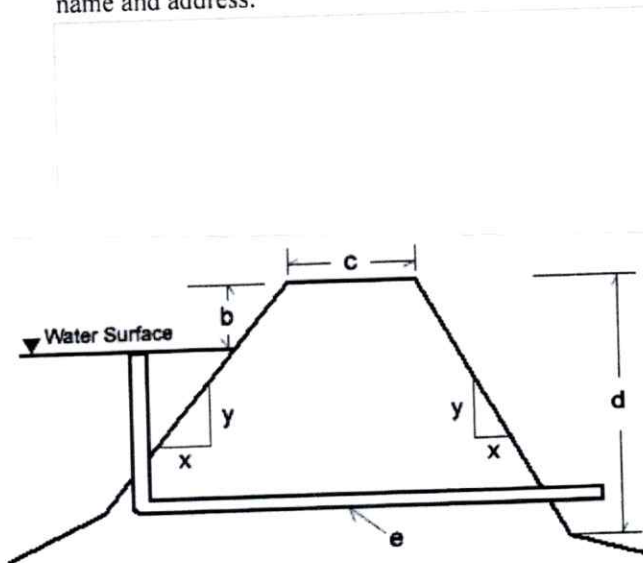
3. Dugout Information

- a) Surface Dimensions _____ Depth _____
- b) Depth to water (ground surface to water level) _____

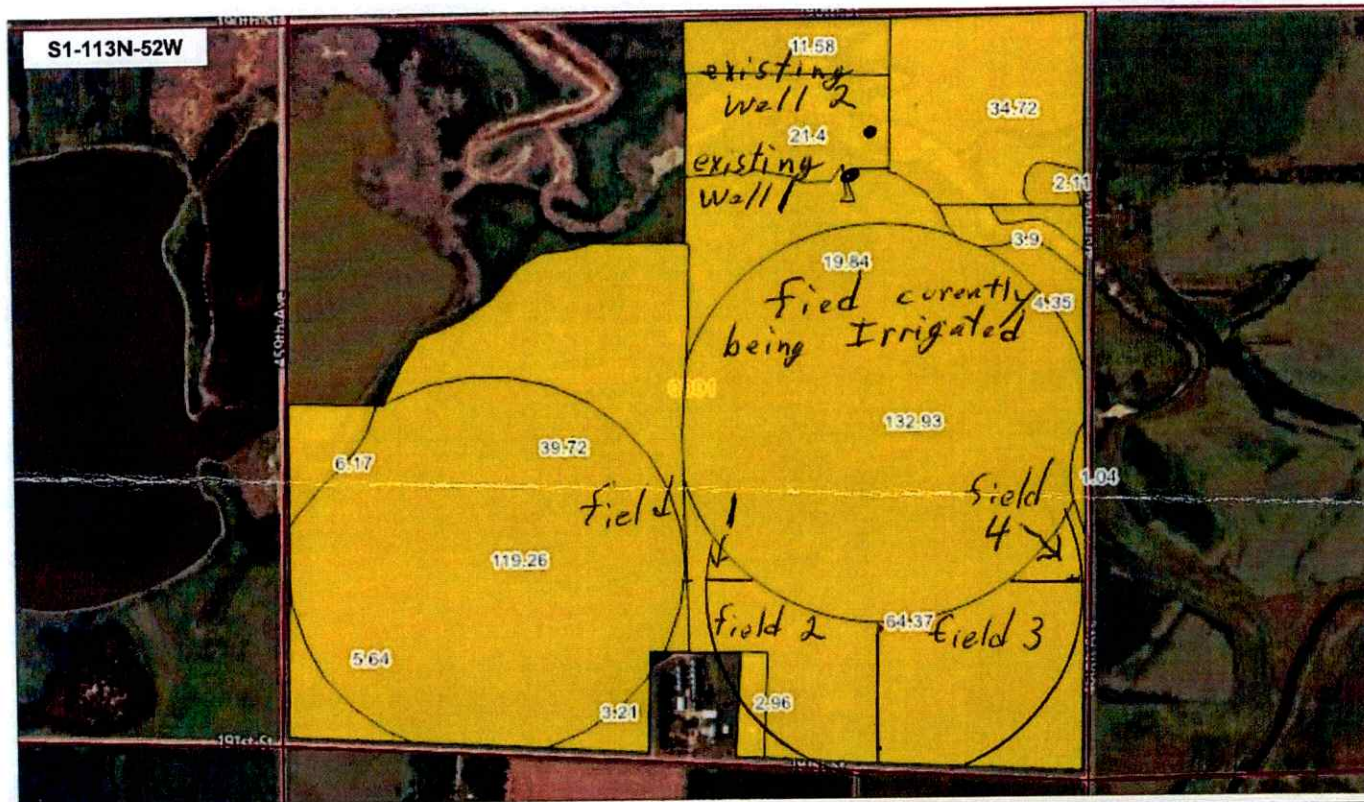
4. Water Storage Dams

If the proposed water use system contains one or more storage dams, please furnish the information requested below for each dam. The locations of the dams need to be shown on the map submitted with the application.

- a) If a private engineering firm or government agency was involved in the design of this dam, please give their name and address:



- b) Freeboard _____
- c) Crest Width _____
Crest Length _____
- d) Height _____
- e) Primary Outlet Capacity _____
If pipe, diameter _____
- f) Secondary Spillway Capacity _____
Spillway Width _____
- g) X & Y Slope (e.g. 3 to 1 is a typical slope)
Upstream _____
Downstream _____
- h) Area of Impoundment _____
- i) Storage _____ Acre Feet
- j) Drainage Area Above Dam _____ Acres





**DEPARTMENT of AGRICULTURE
and NATURAL RESOURCES**

JOE FOSS BUILDING
523 E. CAPITOL AVE
PIERRE SD 57501-3182
danr.sd.gov

July 25, 2024

2528-3
8669-3

Ronald Jongeling
45950 191st St
Castlewood SD 57223

Dear Mr. Jongeling:

Water Permit No. 8669-3 authorized the irrigation of 66 additional acres, to what had already been developed under Water Right No. 2528-3, for a total of 191 acres, irrigated by two wells completed into the Big Sioux: Brookings Aquifer.

An inspection was recently conducted by a Water Rights Program staff engineer, for the purpose of licensing the irrigation system. The inspection found that while Water Right No. 2528-3 and Permit No. 8669-3 authorized the irrigation of 191 acres, 200 acres had actually been developed for irrigation. Due to the over development of the irrigation systems, permitting for the additional acres is required. (see enclosed map)

Water Permit No. 8669-3 and Water Right No. 2528-3 authorize a combined diversion rate of 1.11 cfs (500 GPM). The statutory limit on the diversion rate, for the irrigation of 200 acres is 2.86 cfs (1280 GPM). If, at this time you would like to request a higher diversion rate than what you are currently authorized for, the fees due would not change.

Please find also enclosed, a partially completed irrigation permit application for the over developed acres. The inspection and licensing fee of \$200.00 will be waived, as it has already been paid under Permit No. 8669-3. Fees due for this new application will be \$500.00.

Checks can be made payable to the SD Water Rights Program or payment can be made over the phone by calling our Fiscal Office at (605) 773-5559.

If you have any questions or concerns, please call me at (605) 910-5187.

Sincerely,

Amanda Dewell
Permitting Administrator
Water Rights Program
Amanda.Dewell@state.sd.us

enclosures

STATE OF SOUTH DAKOTA

WATER LICENSE NO. 2528-3

(1) Ronald Jongeling of RR 2, Box 91, Castlewood SD 57223 made Application No. 2528-3, February 6, 1976 for a water permit to appropriate 3.8 cubic feet of water per second from groundwater (two wells), Hamlin County, South Dakota for irrigation purposes. Permit No. 2528-3 with a priority date of February 6, 1976 was approved March 17, 1976 and issued to applicant(s) for diversion of water with construction of the described water supply system to be completed on or before March 17, 1981 and for the application to beneficial use of said water on or before March 17, 1984.

(2) It is certified that the applicant has complied with the provisions of South Dakota State Law relating to completion of the construction of the water supply system and is entitled to divert 1.11 cubic feet of water per second for beneficial use. The location of the diversion point is: 1590' West and 940' South of the NE corner of Section 1, T113N, R52W (NW 1/4 NE 1/4).

(3) The applicant has complied with the provisions of South Dakota State Law relating to the application of water to beneficial use to irrigate the following land:

T113N, R52W Section 1 SE 1/4 NE 1/4	32 acres
SW 1/4 NE 1/4	34 "
NW 1/4 SE 1/4	30 "
NE 1/4 SE 1/4	29 "
TOTAL	125 acres

(4) Pursuant to Section 46-5-30.1 Ronald Jongeling of RR 2, Box 91, Castlewood SD 57223 the holder(s) and/or owner(s) of Water Permit No. 2528-3 is issued a license to appropriate water, the right to use 1.11 cubic feet of water per second from groundwater (one well) with a priority date of February 6, 1976 from the location specified in (2) of this license. The water is to be conducted to and upon lands specified in (3) of this license for the purpose of irrigation. This license is subject to any limitations or qualifications listed in Water Permit No. 2528-3 and subject to South Dakota State Law.



JOHN HATCE, Chief Engineer
Water Rights Division
Department of Water and Natural
Resources

DEC 26 1989

**SOUTH DAKOTA
WATER PERMIT NO. 8669-3**

Date of first receipt of application October 11, 2022.

Date of return to applicant for corrections, amendments or changes October 11, 2022.

Date of receipt of corrected application October 17, 2022.

The Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 8669-3 to Ronald Jongeling, 45950 191st St, Castlewood SD 57223 authorizing the construction of the water use system and the placing of water to beneficial use subject to the following limitations, conditions and qualifications:

1. Water Permit No. 8669-3 authorizes irrigation of an additional 66 acres. Water Right No. 2528-3 authorizes 1.11 cubic feet of water per second (cfs) from two wells completed into the Big Sioux:Brookings Aquifer located in the NW 1/4 NE 1/4 Section 1 for irrigation of 125 acres located in the S 1/2 NE 1/4, N 1/2 SE 1/4 Section 1; all T113N-R52W. This permit authorizes irrigation of an additional 66 acres located in the SE 1/4 Section 1-T113N-R52W from the two existing wells described above. This permit and Water Right No. 2528-3, combined, will authorize a total of 1.11 cfs for irrigation of 191 acres. This site is located approximately 7 miles south of Castlewood SD.
2. The amount of the appropriation may not exceed 2 acre feet annually for each acre of land to which water is actually and beneficially applied for irrigation. The water is to be used during the following described annual period: April 1 – October 31.
3. The date from which applicant may claim right is October 11, 2022.
4. The date of approval of Permit No. 8669-3 is January 9, 2023.
5. One-fifth of the construction is to be completed on or before July 9, 2025.
6. All construction is to be completed on or before January 9, 2028.
7. Water is to be put to beneficial use on or before January 9, 2032.
8. Water rights obtained in compliance with the laws of the State of South Dakota may not be unlawfully impaired by this appropriation.

QUALIFICATIONS

1. The wells approved under Water Right No. 2528-3 and Water Permit No. 8669-3 are located near domestic wells and other wells which may obtain water from the same aquifer. Water withdrawals shall be controlled so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.
2. This Permit is approved subject to the irrigation water use questionnaire being submitted each year.

WATER MANAGEMENT BOARD

By: Eric Gronlund
Eric Gronlund, Chief Engineer
Water Rights Program
Department of Environment and Natural Resources

JAN 19 2023
date



RECEIPT

WATER RIGHTS PROGRAM South Dakota Department of Agriculture and Natural Resources

Date August 5th, 2024

RECEIVED OF Ronald Jongeling 45950 191 ths Street Castlewood SD 57223

The following amount in fees for services rendered as provided for by law:

Fee for Application for Permit No. _____ to Appropriate Water, to construct and to put water to beneficial use	\$ _____
Fee for Application for Permit No. _____ to Appropriate Water for Future use	\$ <u>500.00</u>
Fee to retain Future Use Permit No. _____ after period of seven years.	\$ _____
Fee for Inspecting Constructed Works, confirming beneficial use and issuing Water License No. _____	\$ _____
Fee for Filing Transfer Form _____	\$ _____
Fee for _____	\$ _____
Fee for Issuing New Well Driller's License No. _____	\$ _____
Fee for Renewal of Well Driller's License No. _____	\$ _____
Fee for Issuing Well Pump Installer's License No. _____	\$ _____
Fee for Renewal of Well Pump Installer's License No. _____	\$ _____
(Any Other Work Provided by Law)	TOTAL
	\$ <u>500.00</u>

By Eric Gronlund
Chief Engineer

SK



**DEPARTMENT of AGRICULTURE
and NATURAL RESOURCES**

JOE FOSS BUILDING
523 E. CAPITOL AVE
PIERRE SD 57501-3182
danr.sd.gov

**RECOMMENDATION OF CHIEF ENGINEER FOR WATER PERMIT
APPLICATION NO. 8889-3, Ronald Jongeling**

Pursuant to SDCL 46-2A-2, the following is the recommendation of the Chief Engineer, Water Rights Program, Department of Agriculture and Natural Resources concerning Water Permit Application No. 8889-3, Ronald Jongeling, 45950 191st Street, Castlewood SD 57223.

The Chief Engineer is recommending APPROVAL of Application No. 8889-3 because 1) there is reasonable probability that there is unappropriated water available for the applicant's proposed use, 2) the proposed diversion can be developed without unlawful impairment of existing domestic water uses and water rights, 3) the proposed use is a beneficial use and 4) it is in the public interest as it pertains to matters of public interest within the regulatory authority of the Water Management Board with the following qualifications:

1. The wells approved under this Permit, Water Right No. 2528-3, and Water Permit No. 8669-3 are located near domestic wells and other wells which may obtain water from the same aquifer. Water withdrawals must be controlled so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.
2. This Permit is approved subject to the irrigation water use questionnaire being submitted each year.

See report on application for additional information.

Eric Gronlund, Chief Engineer
September 26, 2024

Report to the Chief Engineer
On Water Permit Application No. 8889-3

Ronald Jongeling

08/19/2024

Water Permit Application No. 8889-3 proposes to authorize an additional 0.67 cubic feet of water per second (cfs) for the irrigation of 9 additional acres. Water Right No. 2528-3 and Water Permit No. 8669-3 currently authorize 1.11 cfs from two wells completed into the Big Sioux: Brookings aquifer located in the NW $\frac{1}{4}$ NE $\frac{1}{4}$ Section 1 for irrigation of 191 acres located in the S $\frac{1}{2}$ NE $\frac{1}{4}$, SE $\frac{1}{4}$ Section 1; all in T113N-R52W Hamlin County. This application proposes to irrigate an additional 9 acres located in the N $\frac{1}{2}$ NE $\frac{1}{4}$, SE $\frac{1}{4}$ NW $\frac{1}{4}$, NE $\frac{1}{4}$ SW $\frac{1}{4}$, SE $\frac{1}{4}$ Section 1-T113N-R52W from the two existing wells. This application, if approved, Water Right No. 2528-3, and Water Permit No. 8669-3 will authorize a combined total of 1.78 cfs for the irrigation of 200 acres. The site of interest is located in Hamlin County approximately seven miles south of Castlewood, SD.

AQUIFER: Big Sioux: Brookings (BS:B)

HYDROGEOLOGY:

The Big Sioux aquifer is divided into twelve management units that have been historically recognized by the DANR-Water Rights Program and SD Water Management Board (Water Rights, 2024c). The water source for this application is the Brookings management unit of the Big Sioux aquifer.

The Brookings management unit of the Big Sioux aquifer is a Quaternary-aged glacial outwash that consists of medium to very coarse sand and very fine to medium gravel (Kume, 1985; Hamilton, 1989). The depth of the top of the Big Sioux: Brookings aquifer ranges from the land surface in the Big Sioux River floodplain to 212 feet below land surface (Hamilton, 1989). In Brookings, Deuel, Kingsbury, and Moody Counties, the Big Sioux: Brookings aquifer is estimated to underly approximately 323,000 acres (Stonesifer, 2013). The direction of groundwater movement in the Big Sioux aquifer is south and towards the Big Sioux River (Hamilton, 1989). The Big Sioux aquifer is unconfined near the Big Sioux River and along major tributary valleys, but elsewhere it is confined beneath till (Hamilton, 1989).

A water well completion report is available, for one of the two wells, authorized by Water Right No. 2528-3 (Water Rights, 2024d). The well was completed on November 23rd, 2001 into the Big Sioux: Brookings aquifer and has a saturated aquifer thickness of approximately 23 feet, with the depth to the top of aquifer material approximately 11 feet below the ground surface, and static water level approximately 6 feet below the ground surface at the time of well completion (SDGS, 2024; Water Rights, 2024b and 2024d). Based on the water well completion reports near the diversion points and the well completion report for the existing well, the Big Sioux: Brookings aquifer is expected to be locally confined by a clay lens at the diversion points (SDGS, 2024; Water Rights, 2024b and 2024d). However, based on lithologic logs and other

well completion reports in the area, the aquifer is likely to behave as an unconfined aquifer or a very lightly confined aquifer (SDGS, 2024; Water Rights, 2024d).

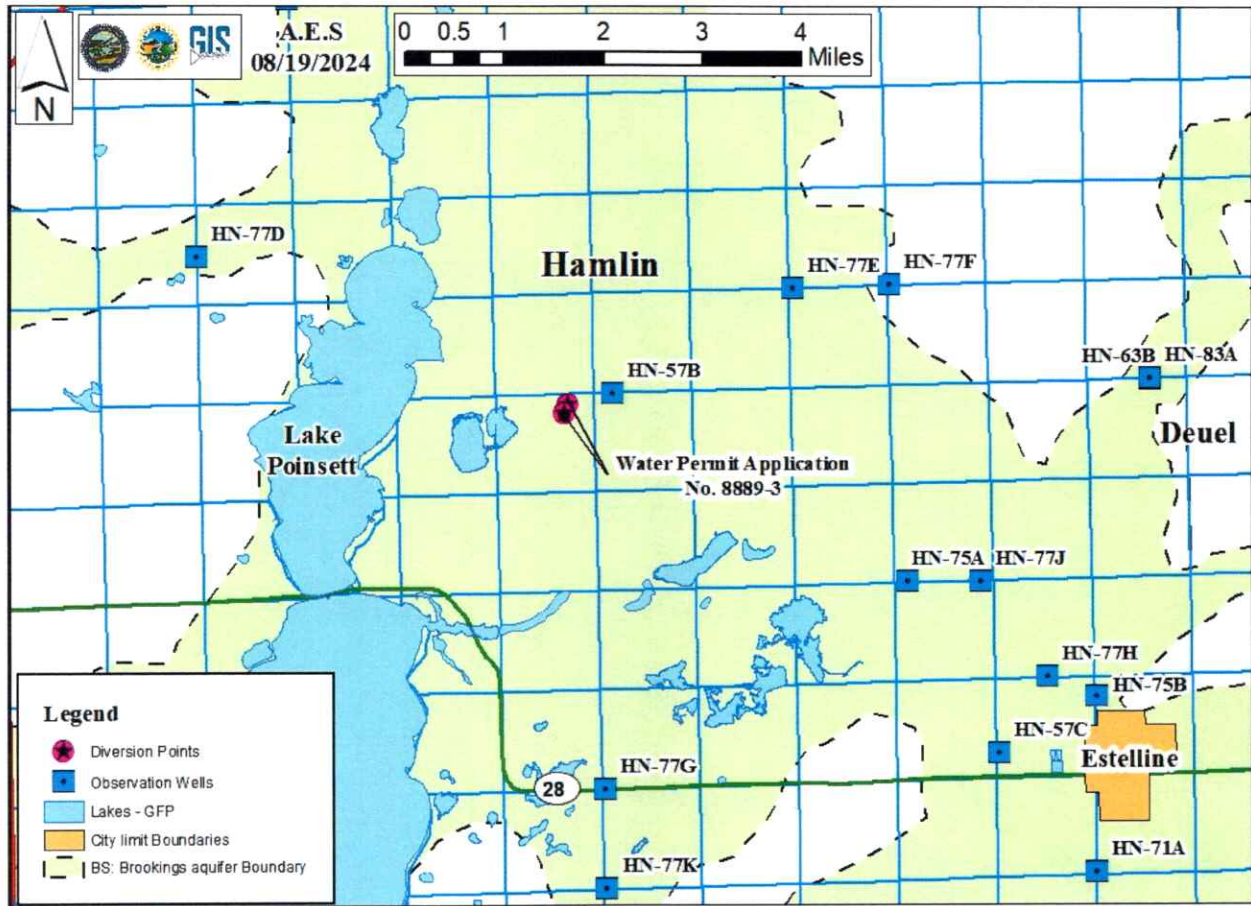


Figure 1. Map of the approximate Big Sioux: Brookings aquifers boundary, Big Sioux: Brookings aquifer observation wells and the location of the existing wells for Water Permit Application 8889-3 (Stonesifer, 2013; Water Rights, 2024b and 2024c)

South Dakota Codified Law (SDCL) 46-2A-9

Pursuant to SDCL 46-2A-9, “A permit to appropriate water may be issued only if there is a reasonable probability that there is unappropriated water available for the applicant’s proposed use, that the diversion point can be developed without unlawful impairment of existing domestic water uses and water rights, and that the proposed use is a beneficial use and in the public interest as it pertains to matters of public interest within the regulatory authority of the Water Management Board as defined by SDCL 46-2-9 and 46-2-11.” This report will address the availability of unappropriated water and the potential for unlawful impairment of existing domestic water uses and water rights within the Big Sioux: Brookings aquifer.

WATER AVAILABILITY:

Water Permit Application No. 8889-3 proposes to appropriate water from the Big Sioux: Brookings aquifer. The probability of unappropriated water being available from the aquifer can be evaluated by considering SDCL 46-6-3.1, which requires “No application to appropriate

groundwater may be approved if, according to the best information reasonably available, it is probable that the quantity of water withdrawn annually from a groundwater source will exceed the quantity of the average estimated annual recharge of water to the groundwater source. An application may be approved, however, for withdrawals of groundwater from any groundwater formation older than or stratigraphically lower than the Greenhorn formation in excess of the average estimated annual recharge for use by water distribution systems.” The Big Sioux: Brookings aquifer is not older than or stratigraphically lower than the Greenhorn Formation (Fahrenbach et al., 2010), and the applicant’s proposed use is not for use in a water distribution system as defined by SDCL 46-1-6(17). Therefore, the average annual recharge and average annual withdrawal rates to and from the Big Sioux: Brookings aquifer must be considered.

HYDROLOGIC BUDGET:

Recharge

Recharge to the Big Sioux: Brookings aquifer is received primarily through the infiltration of precipitation and seepage through till, lake deposits, and underlying aquifers (Hamilton, 1989). Using observation well analysis, Hedges and others (1985) estimated a recharge rate of 4.0 inches per year for the Big Sioux: Brookings aquifer using observation well analysis. The Big Sioux: Brookings aquifer has an estimated areal extent of approximately 323,000 acres (Stonesifer, 2013); therefore, the average annual recharge rate for the Big Sioux: Brookings aquifer (Hedges et al, 1985; Stonesifer, 2013) is approximately 107,667 acre-feet/year.

Discharge

Discharge from the Big Sioux: Brookings aquifer primarily occurs through well withdrawals, seepage to surface water features, and evapotranspiration in areas where the aquifer is at or near land surface (Hamilton, 1989; Water Rights, 2024d). Currently, there are 259 water rights/permits, along with three pending applications—8880-3, 8889-3, and 8893-3—all authorized to appropriate water from the Big Sioux: Brookings aquifer (Water Rights, 2024c). Additionally, there are 12 future use permits reserving 6,041 acre-feet per year of water from the Big Sioux: Brookings aquifer, as shown in Table 1 (Water Rights, 2024c). There are domestic wells completed into the Big Sioux: Brookings aquifer that do not require a water right/permit, so the withdrawal amount from those wells is unknown (Water Rights, 2024d). Due to their relatively low diversion rates, withdrawals from domestic wells are generally not considered to be a significant portion of the hydrologic budget. Additionally, with the development of rural water systems in areas where the Big Sioux: Brookings aquifer is the uppermost aquifer available; it is likely many domestic users may have transitioned to rural water. Therefore, the quantity of water withdrawn by domestic wells is estimated to be negligible to the hydrologic budget for the Big Sioux: Brookings aquifer.

Table 1. Future Use Permits reserving water from the Big Sioux: Brookings aquifer (Water Rights, 2024c)

Future Use Permit Holder	Permit Nos.	Amount of Reserved Water (acre-feet)
Joint Well Fields Inc	3982-3, 3982A-3, 3982B-3, 6988-3, 6988A-3	2,375
City of Lake Norden	4055-3, 6261-3	0
City of Castlewood	558A-3	123
City of Volga	5875-3, 6259-3	1,143
Sioux Rural Water System	5094-3, 7853-3	2,400
Total:		6,041

Table 2 summarizes the 46 non-irrigation water rights/permits authorized to appropriate water from the Big Sioux: Brookings aquifer with the estimated annual use for each water right/permit as determined by their permitted maximum diversion rate or annual volume. The amount of water that can be withdrawn was estimated by assuming the non-irrigation water rights/permits limited by an annual volume will withdraw their entire appropriated volume every year. It is estimated that non-irrigation water rights/permits limited only by a diversion rate will pump at their maximum permitted diversion rate for 60 percent of the time. The 60 percent estimation was established by Water Rights Staff to be a reasonable and safe estimate of average annual withdrawals by non-irrigation appropriations. Historically, the 60 percent estimate has been accepted by the Water Management Board. This is a standard method used by the DANR-Water Rights Program for estimating annual withdrawals by non-irrigation appropriations from an aquifer and is likely an overestimation of average annual withdrawals (Drinking Water Program, 2024; Water Rights, 2024c). It should be noted that some of the water permits/rights listed on Table 2 are connected to rural water systems and use rural water rather than their local wells; so, they will not contribute to the annual withdrawal rate. This includes water rights for the Town of Hayti who purchases their water from the Sioux Rural Water System and the City of Clear Lake who purchases their water from the Brookings-Deuel Rural Water System (Drinking Water, 2024). Overall, the estimated average annual withdrawal rate from the Big Sioux: Brookings aquifer by the non-irrigation water rights/permits is approximately 13,753 acre-feet per year (Table 2) (Water Rights, 2024c).

Table 2. Estimated annual use for non-irrigation water rights/permits authorized to divert water from the Big Sioux: Brookings aquifer (Water Rights, 2024c)

Permit No.	Name	County	Status	Uses	Authorized Annual Volume (acre-feet)	Estimate Use (acre-feet/year)	Estimation Method or additional notes
1317-3	CITY OF ESTELLINE	HM	LC	MUN	1.1	478.1	percent
1759-3	CITY OF VOLGA	BG	LC	MUN	1.49	647.6	percent
1956-3	H E MEYER	BG	LC	SHD	0.03	13.0	percent
1956-3A	NEIL HAMILTON	BG	LC	SHD	0.04	17.4	percent
2033-3	SIOUX RURAL WATER SYSTEM	HM	LC	RWS	0.66	286.9	percent
2111-3	GOPHER SIGN CO	DU	LC	COM	0.04	17.4	percent
2245B-3	BROOKINGS-DEUEL RWS	DU	LC	RWS	0.67	270	vol
3117-3	TOWN OF HAYTI	HM	LC	MUN	0.33	0	on RWS
4830-3	BROOKINGS-DEUEL RWS	DU	LC	RWS	2	869.3	percent
4950-3	CITY OF BRUCE	BG	LC	MUN	0.27	117.4	percent
5071-3	CITY OF CLEAR LAKE	DU	LC	MUN	0.45	0	on RWS
5079-3	BROOKINGS-DEUEL-KINGBROOK	BG	LC	RWS	2.9	1,260.5	percent
5129-3	TECHNICAL ORDNANCE INC	DU	LC	IND	0.1	43.5	percent
5167-3	CITY OF VOLGA	BG	LC	MUN	0.45	195.6	percent
534A-3	CITY OF CLEAR LAKE	DU	LC	MUN	1.1	0	on RWS
5434-3	BROOKINGS-DEUEL-KINGBROOK	BG	LC	RWS	1	434	vol
557-3	CITY OF LAKE NORDEN	HM	LC	MUN	0.6	260.8	percent
558B-3	CITY OF CASTLEWOOD	HM	LC	MUN	0.56	243.4	percent
558D-3	CITY OF CASTLEWOOD	HM	LC	MUN	0.33	143.4	percent
5602-3	BROOKINGS-DEUEL-KINGBROOK	BG	LC	RWS	1	434	vol
5645-3	CITY OF ESTELLINE	HM	LC	MUN	0.66	286.9	percent
5675-3	LAKE POINSETT ESTATES	HM	LC	COM	0.09	39.1	percent
5815-3	CITY OF LAKE NORDEN	HM	LC	MUN	0.56	378	vol
5941-3	CITY OF VOLGA	BG	LC	MUN	0.89	644	vol
6002-3	BROOKINGS-DEUEL-KINGBROOK	BG	LC	RWS	0.78	362	vol
6019-3	DAKOTA WHOLESALE BAIT INC	BG	LC	COM/DOM	0.355	154.3	percent
6146-3	SD SOYBEAN PROCESSORS	BG	LC	IND	0.144	62.6	percent
617-3	CITY OF HAYTI	HM	LC	MUN	0.66	0	on RWS
6329-3	GREG OSWALD	BG	LC	COM	1.28	556.3	percent
6417-3	CITY OF LAKE NORDEN	HM	LC	MUN	1.45	630	vol
6542-3	CITY OF LAKE NORDEN	HM	LC	MUN	0.6	262	vol
6718-3	BROOKINGS-DEUEL-KINGBROOK	BG	LC	RWS	0.56	300	vol
6745-3	KENNETH HANSEN	HM	LC	COM	0.11	47.8	percent
6785-3	DRUMGOON DAIRY LP	HM	LC	COM/LCO	0.2	86.9	percent
6786-3	DAVID NYSTROM	DU	LC	COM/LCO	0.17	73.9	percent
7259-3	OLD APOSTOLIC LUTHERAN CHURCH	HM	LC	GEO	1	120	vol
7277-3	OLD TREE FARMS	BG	LC	COM/LCO	0.1	43.5	percent
7381-3	BROOKINGS-DEUEL RWS	DU	PE	RWS	0	0.0	Adds Lincoln-Pipestone RWS
7852-3	SIOUX RURAL WATER SYSTEM INC	HM	LC	RWS	4.66	2,100	vol
7852A-3		HM	PE	RWS	0	0.0	extension of construction time to 7852-3
7854-3	DAVID ULVESTAD	BG	LC	COM/LCO	0.44	191.2	percent
8185-3	JOINT WELL FIELD INC.	BG	PE	RWS	0	603	vol
8371-3	JOINT WELL FIELD INC	BG	PE	RWS	0	434	vol
8640-3	CITY OF VOLGA	BG	LC	MUN	1.09	645	vol
8732-3	SIOUX RURAL WATER SYSTEM INC	HM	PE	RWS	0	0	Adds city of Estelline connection to their system
LC Licensed Water Right, PE Water Permit, IL Incorporated License, COM Commercial, DOM Domestic, LCO Livestock Confinement Operation, GEO Geothermal, IND Industrial, MUN Municipal, RWS Rural Water System, SHD Suburban Housing Development					TOTAL:	13,752.7	

Currently, there are 213 irrigation water rights/permits and one pending application - Water Permit Application No. 8880-3 authorized to appropriate water from the Big Sioux: Brookings aquifer (Water Rights, 2024c). Irrigation water rights/permits have been typically required to report their annual usage on an irrigation questionnaire since 1979. The estimated average annual withdrawal rate for the Big Sioux: Brookings aquifer irrigation water rights/permits that have reported over the period of record (1979 to 2023) is approximately 9,242 acre-feet per year (Table 3) (Water Rights, 2024a). To reflect the current development of irrigation water rights/permits more accurately, the average annual withdrawal rate for irrigation appropriations from 2014 to 2023 is approximately 10,478 acre-feet per year (Table 3) (Water Rights, 2024a). Collectively, the average annual withdrawal rate for the irrigation appropriations from 2014 to 2023 (10,478 acre-feet/year), this application (if approved) (9 acre-feet/year) is approximately 10,487 acre-feet/ year. Water use for pending Water Permit Application No. 8880-3 is already accounted for under the annual reporting for Water Permit No. 8531-3 (Water Rights, 2024a and 2024c).

Table 3. Reported historic irrigation use from the Big Sioux: Brookings aquifer (Water Rights, 2024a)

Year	No. of Permits Reporting	Reported Pumpage (acre-feet)
1979	184	6,144
1980	187	9,837
1981	198	9,040
1982	155	4,552
1983	161	8,227
1984	188	8,178
1985	181	4,951
1986	179	2,855
1987	171	10,015
1988	167	18,521
1989	166	13,931
1990	175	8,863
1991	165	7,772
1992	162	2,332
1993	162	1,043
1994	160	2,855
1995	161	3,862
1996	154	7,221
1997	153	5,650
1998	157	8,110
1999	155	7,841
2000	153	8,934
2001	149	8,385
2002	149	12,411
2003	149	11,380
2004	156	11,810
2005	159	11,513
2006	161	14,325
2007	164	12,730
2008	166	12,506
2009	174	9,173
2010	172	2,713
2011	174	8,528
2012	177	19,483
2013	198	15,432
2014	212	9,948
2015	209	8,796
2016	210	10,267
2017	209	9,572
2018	211	7,953
2019	211	106
2020	209	10,001
2021	205	17,955
2022	206	14,509
2023	214	15,670
Max	214	19,483
Min	149	106
Avg (1979-2023)	176	9,242
Avg (2014-2023)	210	10,478

Hydrologic Budget Summary

The estimated average annual recharge rate to the Big Sioux: Brookings aquifer is approximately 107,667 acre-feet per year (Stonesifer, 2013). The estimated average annual withdrawal rate from the Big Sioux: Brookings aquifer is approximately 31,025 acre-feet per year (future use: 6,041 acre-feet/year; non-irrigation: 13,753 acre-feet/year; irrigation (avg 2014 to 2023 and this application): 10,487 acre-feet/yr; pending applications 8880-3 and 8893-3: 744 acre-feet/year). Overall, the estimated average annual recharge rate to the Big Sioux: Brookings aquifer is greater than the estimated average annual withdrawal rate from the aquifer. Based on the hydrologic budget, there is a reasonable probability unappropriated water is available from the Big Sioux: Brookings aquifer for the proposed appropriation.

OBSERVATION WELL DATA:

Administrative Rule of South Dakota (ARSD) 74:02:05:07 requires that the Water Management Board shall rely upon the record of observation well measurements in addition to other data to determine that the quantity of water withdrawn annually from the aquifer does not exceed the estimated average annual recharge of the aquifer.

The DANR-Water Rights Program monitors 76 observation wells completed into the Big Sioux: Brookings aquifer (Water Rights, 2024b). These observation wells provide data on how the aquifer reacts to regional climatic conditions and local pumping. The three closest observation wells to the existing diversion points are HN-57B (approximately 0.5 miles east), HN-77F (approximately 3.5 miles northeast), and HN-75A (approximately 3.9 miles southeast) (Water Rights, 2024b). The data points utilized to construct the hydrographs are measurements of the static water level in the observation wells from the top of the well casing. The hydrographs for these observation wells were compared to hydrographs for other observations wells completed into the Big Sioux: Brookings aquifer and all displayed a generally similar trend as shown on the hydrographs displayed in Figure 2 (Water Rights, 2024b). Most observation wells completed into the Big Sioux: Brookings aquifer have a stable water level, with several observation wells that are under the influence of heavy pumping showing points in time when there were slight declines in water levels that eventually stabilized. These periods of time almost always coincide with reduced recharge due to drought conditions. The data shown on Figure 2 shares a generally similar trend with a majority of the observation wells completed into the Big Sioux: Brookings aquifer.

DANR Water Rights Observation Wells: HN-57B, HN-75A, HN-75A

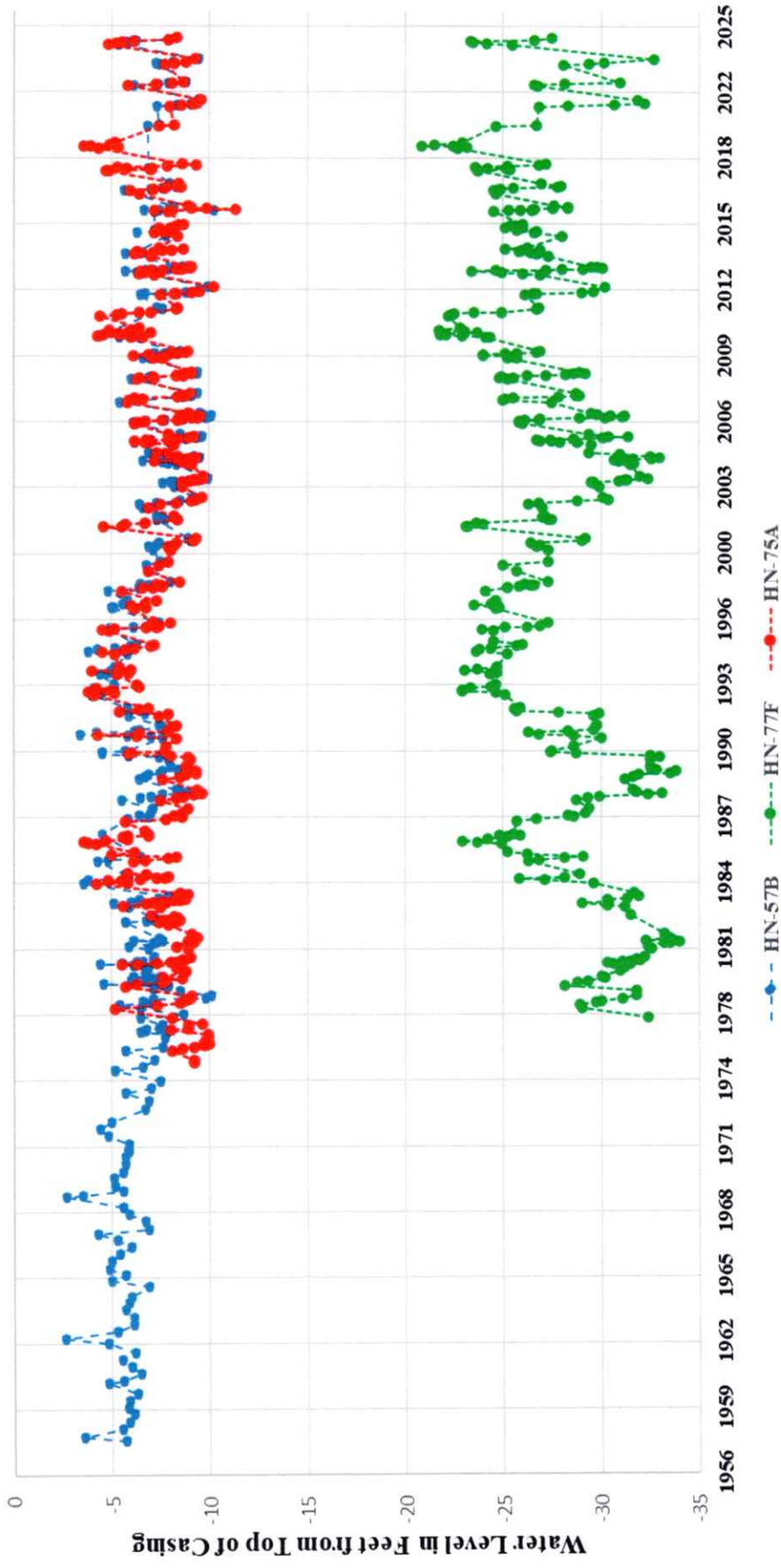


Figure 2. A graph showing the elevation of water levels for observation wells HN-57B, HN-77F, and HN-75A (Water Rights, 2024b)

Figure 2 shows the observation wells display stable water levels over their respective periods of record. The hydrographs for the Big Sioux: Brookings aquifer indicate that the aquifer responds well to climatic conditions because water levels are rising during wetter periods and declining to a stable water level during drier periods. Additionally, the water levels in the observation wells display that the amount of recharge to and natural discharge from the aquifer greatly exceeds pumping with the aquifer returning to pre-pumping conditions between irrigation seasons. This is further supported by the fact the observation wells remain stable despite increased withdrawals from the aquifer. Aquifer recovery indicates that climatic conditions and therefore, the effects of recharge to and natural discharges from the aquifer govern the long-term fluctuations of waters levels in the aquifer rather than the impacts of pumping from the Big Sioux: Brookings aquifer. By recognizing that both recharge to and natural discharge from an aquifer can be captured for pumping, the observation well hydrographs demonstrate unappropriated water is available for the proposed appropriation.

POTENTIAL FOR UNLAWFUL IMPAIRMENT OF EXISTING WATER RIGHTS:

Water rights/permits in the general vicinity of the existing well site for this application are shown in Figure 3 and summarized in Table 4 (Water Rights, 2024c). The closest water right/permit (not held by the applicant) to the diversion points is Water Right No. 7525-3 which is held by Mark Rust. The diversion point for Water Right No. 7525-3 is located approximately 1.2 miles north of the diversion points for this application (Water Rights, 2024c). There are domestic wells on file with the DNR-Water Rights Program that are completed into the Big Sioux: Brookings aquifer, with the closest domestic wells on file (not held by the applicant) approximately 0.5 miles north of the diversion points (Water Rights, 2024d). The location of domestic wells are based on the well completion report submitted by the driller. There could potentially be other domestic wells completed into the Big Sioux: Brookings aquifer near the diversion points that are not on file with the DNR-Water Rights Program.

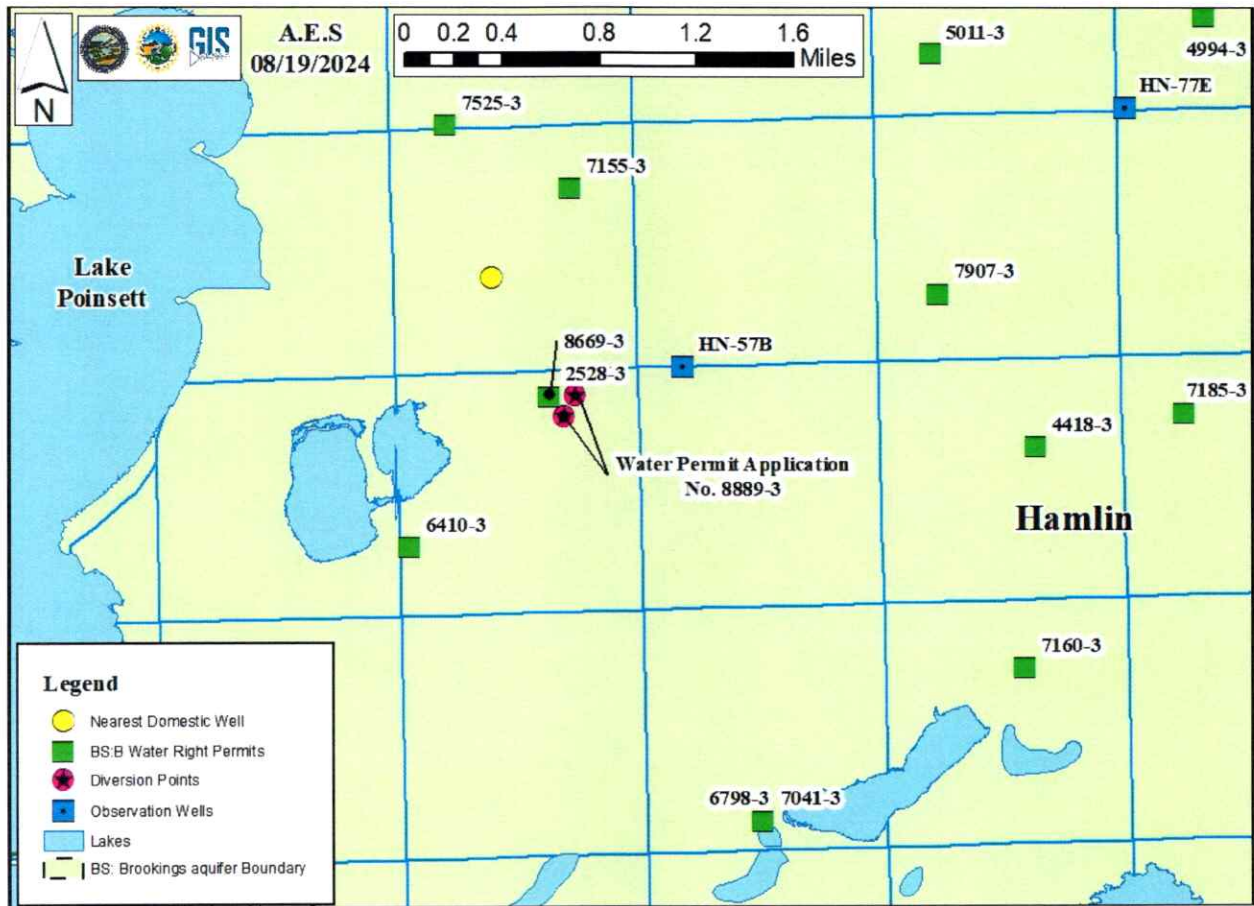


Figure 3: Map of the water rights/permits, and observation wells that are within approximately 3 miles of the diversion points for Water Permit Application No. 8889-3 all within the Big Sioux: Brookings aquifer (Water Rights, 2024b and 2024c)

Table 4. List of water rights/permits in Figure 3.

Permit No.	Name	Use	Status	Rate (cfs)	Acres
2528-3*	RONALD JONGELING	IRR	LC	1.11	125
4418-3	RONALD JONGELING	IRR	LC	1.33	134
4994-3	DOUGLAS LINNEMAN	IRR	LC	1.66	132
5011-3	RONALD JONGELING	IRR	LC	1.68	118
6410-3	RONALD JONGELING	IRR	LC	1.78	132
6798-3	RONALD E JONGELING	IRR	LC	1.78	132
7041-3	TODD JONGELING	IRR	LC	1.43	100
7155-3	RON OR TODD JONGELING	IRR	LC	2.22	224
7160-3	MARK RUST	IRR	LC	1.22	80
7185-3	TOM JONGELING	IRR	LC	1.56	132
7525-3	BRAD JONGELING	IRR	LC	1.54	108
7907-3	RONALD JONGELING	IRR	LC	0.45	77
LC: Licensed Water Permit; IRR: Irrigation					
*2528-3 is the original authorized water right for Water Right No. 8669-3 & Water Permit Application No. 8889-3					

In Hamlin and Deuel Counties, the Big Sioux aquifer has an average saturated aquifer thickness of approximately 30 feet (Kume, 1985). Within approximately one-half mile of the existing wells proposed to be used, water well and test hole completion reports on file for wells completed into the Big Sioux: Brookings aquifer have saturated aquifer thicknesses ranging from approximately 10 to 50 feet; while the well completion report at the application location has a saturated aquifer thickness of 23 feet (SDGS, 2024; Water Rights, 2022b and 2022d). This would generally allow for enough thickness for a pump to be placed 20 feet below the top of the aquifer, which is required for the well to be considered adequate under ARSD 74:02:04:20(6). Any drawdown as a result of the proposed diversion is not expected to unlawfully impair nearby adequate wells. In Deuel and Hamlin Counties, there are no complaints on file with the DANR-Water Rights Program regarding well interference for adequate wells completed into the Big Sioux: Brookings aquifer (Water Rights, 2024e).

While the Big Sioux: Brookings aquifer is primarily under unconfined conditions, based on nearby well completion reports an overlying clay and till layer at the diversion point is creating locally confined conditions for this application. In an unconfined aquifer, drawdown created by pumping does not extend far from the pumped well. The Water Management Board recognizes that putting water to beneficial use requires a certain amount of drawdown to occur. The Board has developed rules to allow water to be placed to maximum beneficial use without the necessity of maintaining artesian head pressure for domestic use. The Water Management Board defined an “adversely impacted domestic well” in ARSD 74:02:04:20(7) as:

“A well in which the pump intake was set at least 20 feet below the top of the aquifer at the time of construction or, if the aquifer is less than 20 feet thick, is as near to the bottom of the aquifer as is practical and the water level of the aquifer has declined to a level that the pump will no longer deliver sufficient water for the well owner’s needs.”

The Big Sioux: Brookings aquifer is a relatively thin aquifer with a limited amount of water in storage. While the average annual withdrawal would not exceed average annual recharge to the aquifer, conditions may occur when the withdrawal exceeds recharge. When this occurs, water will be removed from storage; consequently, reducing the saturated thickness of the aquifer. If the saturated thickness is reduced to the extent that water rights/permits can no longer pump at their developed or “historically established” diversion rates, this may be considered an adverse impact. If approved, the water permit should include a qualification that the well owner should control their withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights. Any drawdown created from pumping this proposed appropriation is not expected to cause unlawful impairment on existing water right/permit holders or domestic users with adequate wells. Furthermore, the acres to be irrigated have been in use for several years and there have been no complaints regarding well interference. When considering the statutes (SDCL 46-1-4 and 46-6-3.1), rules (ARSD 74:02:04:20 (6) and (7)), the lack of well interference complaints for adequate wells completed into the Big Sioux: Brookings aquifer in Brookings County (Water Rights, 2024e), and the nearby unconfined conditions in the aquifer, any drawdown created from the diversion is not expected to cause an unlawful impairment on existing water right/permit holders or domestic

users with adequate wells. Therefore, there is a reasonable probability that any interference from the proposed appropriation will not impose unlawful impairments on existing users with adequate wells.

CONCLUSIONS:

1. Water Permit Application No. 8889-3 proposes to authorize an additional 0.67 cubic feet of water per second (cfs) for the irrigation of 9 additional acres. Water Right No. 2528-3 and Water Permit No. 8669-3 currently authorize 1.11 cfs from two wells completed into the Big Sioux: Brookings aquifer located in the NW $\frac{1}{4}$ NE $\frac{1}{4}$ Section 1 for irrigation of 191 acres located in the S $\frac{1}{2}$ NE $\frac{1}{4}$, SE $\frac{1}{4}$ Section 1; all in T113N-R52W Hamlin County. This application proposes to irrigate an additional 9 acres located in the N $\frac{1}{2}$ NE $\frac{1}{4}$, SE $\frac{1}{4}$ NW $\frac{1}{4}$, NE $\frac{1}{4}$ SW $\frac{1}{4}$, SE $\frac{1}{4}$ Section 1-T113N-R52W from the two existing wells. This application, if approved, Water Right No. 2528-3, and Water Permit No. 8669-3 will authorize a combined total of 1.78 cfs for the irrigation of 200 acres. The site of interest is located in Hamlin County approximately seven miles south of Castlewood, SD.
2. Water Permit Application No. 8889-3, if approved, and Water Right No. 2528-3 & Permit No. 8669-3 will authorize a combined total of 1.78 cfs for irrigation of 200 acres.
3. Based on observation well data and the hydrologic budget, there is a reasonable probability that unappropriated water is available from the Big Sioux: Brookings aquifer to supply the proposed appropriation.
4. There is a reasonable probability this proposed diversion will not unlawfully impair adequate wells authorized by existing water rights or domestic use wells.



Austin Settje
Natural Resources Engineer I
SD DANR - Water Rights Program



Adam Mathiowetz, PE
Natural Resources Engineer IV
SD DANR - Water Rights Program

References

- Drinking Water, 2024. Drinking Water Reports, SD DANR-Drinking Water Program, Joe Foss Bldg, Pierre, SD
- Hamilton, L.J., 1989. Water Resources of Brookings and Kingsbury Counties, South Dakota: Water-Resources Investigation Report 88-4185. USGS, Huron, South Dakota: U.S. Geological Survey.
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- Water Rights, 2024d. Well Completion Reports, SD DANR-Water Rights Program, Joe Foss Bldg, Pierre, SD.
- Water Rights, 2024e. County Files, SD DANR-Water Rights Program, Joe Foss Bldg, Pierre, SD.



**DEPARTMENT of AGRICULTURE
and NATURAL RESOURCES**

JOE FOSS BUILDING
523 E CAPITOL AVE
PIERRE SD 57501-3182
danr.sd.gov

**NOTE: TO BE SURE OF PUBLICATION ON
THE CORRECT DATES, CONTACT
THE NEWSPAPERS RIGHT AWAY.**

September 30, 2024

Ronald Jongeling
45950 191st Street
Castlewood SD 57223

Dear Mr. Jongeling:

Water Permit Application No. 8889-3 for irrigation use has been examined and found to comply with the South Dakota Water Laws and applicable rules. A notice has been sent to the Hamlin County Republican printed in Castlewood SD (Ph # 605 793-2293) and the Public Opinion printed in Watertown (see attachment for contact number). You will need to contact the newspapers and authorize publication of this notice. For your information, a copy of the notice, the recommendation of the Chief Engineer and report on the application are enclosed. Please review the notice prior to publication and notify this office, if you have any corrections or questions.

Be sure to contact the above newspapers to authorize publication of your Notice and to arrange for payment. Early contact with the papers can eliminate delays. Upon receiving authorization from you, the publishers have been instructed to publish your notice. The newspapers have also been instructed to send us the Proof of Publication. We must receive Proof of Publication before action can be taken on the application.

Sincerely,

Rachel Rodriguez

Rachel Rodriguez
Water Rights Program
(605) 773-3352

enclosures

NOTE: If you plan to contest any part of the Chief Engineer's recommendation, you must file a petition pursuant to the procedures outlined in the attached notice of hearing. The Water Management Board will then consider your concerns during a hearing on the application.

NOTICE OF APPLICATION NO. 8889-3 to Appropriate Water

Notice is given that Ronald Jongeling, 45950 191st Street, Castlewood SD 57223 has filed an application for a water permit to appropriate an additional 0.67 cubic feet of water per second (cfs) from two existing wells authorized by Water Right No. 2528-3 to irrigate 9 additional acres. Water Right No. 2528-3 and Water Permit No. 8669-3, combined, appropriate 1.11 cfs from two wells completed into the Big Sioux: Brookings Aquifer located in the NW 1/4 NE 1/4 Section 1 for irrigation of 191 acres located in the S 1/2 NE 1/4, SE 1/4 Section 1; all in T113N-R52W. An investigation of the permit found the system capable of diverting an additional 0.67 cfs from the two existing wells and irrigating 9 additional acres within the area described above plus the N 1/2 NE 1/4, SE 1/4 NW 1/4, NE 1/4 SW 1/4 Section 1-T113N-R52W. This application, if approved, and Water Right No. 2528-3 and Water Permit No. 8669-3 will authorize a combined total of 1.78 cfs for irrigation of 200 acres. This site is located approximately seven miles south of Castlewood SD.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 8889-3 with qualifications because 1) unappropriated water is available, 2) existing domestic water uses and water rights will not be unlawfully impaired, 3) it is a beneficial use of water, and 4) it is in the public interest as it pertains to matters within the regulatory authority of the Water Management Board. The Chief Engineer's recommendation with qualifications, the application, and staff report are available at <https://danr.sd.gov/public> or contact Ron Duvall for this information, or other information, at the Water Rights Program address provided below.

Any person interested in opposing this application or recommendation shall allege that the application, upon approval, will cause injury to the person that is unique from any injury suffered by the public in general. The injury must concern a matter either within the regulatory authority found in SDCL 46-2A-9 for approval or denial of the application, or other matter concerning the application within the regulatory authority of the board to act upon as defined by SDCL 46-2-9 and 46-2-11, or both. Any person meeting the petitioner requirements and wishing to be a party of record in a contested case hearing shall file a written petition to oppose the application with BOTH the applicant and Chief Engineer. A petition opposing the application shall be filed on a form provided by the Chief Engineer. The petition form is available online at <https://danr.sd.gov/public> or by contacting the Chief Engineer. The Chief Engineer's address is "Water Rights Program, Foss Building, 523 E Capitol, Pierre SD 57501" or call (605) 773-3352. The applicant's mailing address is given above. If contesting the Chief Engineer's recommendation, the applicant shall also file a petition. A petition filed by either an interested person or the applicant must be filed by October 21, 2024.

The petition shall include a statement describing the unique injury upon approval of the application on the petitioner, the petitioner's reasons for opposing the application, and the name and mailing address of the petitioner or the petitioner's legal counsel, if legal counsel is obtained.

Any interested person may file a comment on the application with the Chief Engineer. The comment shall be filed on a form provided by the Chief Engineer and is available online at <https://danr.sd.gov/public> or by calling (605) 773-3352 or writing the Chief Engineer at the address provided above. Filing a comment does not make the commenter a party of record or a participant in any hearing that may be held. Any comment must be filed by October 21, 2024.

If the applicant does not contest the recommendation of the Chief Engineer and no petition to oppose the application is received, the Chief Engineer shall act on the application pursuant to the recommendation with no hearing held before the Water Management Board. If a petition opposing the application or contesting the recommendation is filed, then a hearing will be scheduled, and the Water Management Board will consider this application. Notice of the hearing will be given to the applicant and any person filing a petition.

Order Confirmation
Not an Invoice

Account Number:	1487868
Customer Name:	Ronald Jongeling
Customer Address:	Ronald Jongeling 45950 191St ST Castlewood SD 57223-6001
Contact Name:	Rachel Rodriguez
Contact Phone:	(605) 773-3212
Contact Email:	rachel.rodriguez@state.sd.us
PO Number:	8889-3

Date:	09/30/2024
Order Number:	10627022
Prepayment Amount:	\$ 0.00

Column Count:	1.0000
Line Count:	179.0000
Height in Inches:	0.0000

Print

Product	#Insertions	Start - End	Category
WAT The Public Opinion	1	10/09/2024 - 10/09/2024	Public Notices
WAT thepublicopinion.com	1	10/09/2024 - 10/09/2024	Public Notices

As an incentive for customers, we provide a discount off the total order cost equal to the 3.99% service fee if you pay with Cash/Check/ACH. Pay by Cash/Check/ACH and save!

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Tax Amount	\$0.00
Service Fee 3.99%	\$2.27
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Payment Amount by Cash/Check/ACH	\$56.91
Payment Amount by Credit Card	\$59.18

Order Confirmation Amount	\$56.91
----------------------------------	----------------

Rodriguez, Rachel

From: Gannett Legals Public Notices 4 <ganlegpubnotices4@gannett.com>
Sent: Monday, September 30, 2024 11:52 AM
To: Rodriguez, Rachel
Subject: RE: [EXT] 10627022 8889-3 Ronald Jongeling - Public Notice
Attachments: 10627022.pdf

Good Afternoon,

Please find your order confirmation and proof of ad attached.

Your ad is set to run in the Public Opinion on October 9. The order cost is \$56.91 which includes an affidavit, that will be mailed to you 7-10 business days after the last day of the ad printing.

All orders are subject to a 3.99% service fee. As an incentive for customers, we provide a discount off the order cost equal to the 3.99% service fee if you pay with ACH. Pay by ACH and Save!
Final order cost provided at time of payment and via a receipt.

Your notice is scheduled to run per your request and will publish unless you reply to this email requesting changes or to cancel.

If you would like to utilize our online self-serve ad portal to place your legal notices in the future, please visit your local publication's online classifieds legal section. There, you can conveniently submit and immediately preview your notices anytime, 24/7.

Thank you!

Brittany Grady
Public Notice Representative



Office: 844-254-5287

From: Rodriguez, Rachel <Rachel.Rodriguez@state.sd.us>
Sent: Monday, September 30, 2024 8:13 AM
To: SD-Watertown Legals <legals@thepublicopinion.com>
Subject: 10627022 8889-3 Ronald Jongeling - Public Notice

Attached is a notice to be published on October 9, 2024.

Ronald Jongeling, 45950 191st Street, Castlewood SD 57223, 605-873-2853, applicant did not provide an email, has been notified to contact you to authorize publication and arrange for payment.

Please send the affidavit or return the attached Proof of Publication form ASAP to the Water Rights Program, 523 E Capitol Ave, Pierre SD 57501.

Let me know if you have questions. **Please acknowledge receipt of this email.**

Rodriguez, Rachel

From: Rodriguez, Rachel
Sent: Monday, September 30, 2024 8:13 AM
To: legals@thepublicopinion.com
Subject: 8889-3 Ronald Jongeling - Public Notice
Attachments: 8889-3 public.short_final.docx; FORM8.FRM.doc

Attached is a notice to be published on October 9, 2024.

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Please send the affidavit or return the attached Proof of Publication form ASAP to the Water Rights Program, 523 E Capitol Ave, Pierre SD 57501.

Let me know if you have questions. **Please acknowledge receipt of this email.**

Thank you,

Rachel Rodriguez
DANR | Program Assistant
Rachel.Rodriguez@state.sd.us



Rodriguez, Rachel

From: Rodriguez, Rachel
Sent: Monday, September 30, 2024 8:10 AM
To: LeeAnne Dufek
Subject: 8889-3 Ronald Jongeling - Public Notice
Attachments: 8889-3 public.short_final.docx; FORM8.FRM.doc

Attached is a notice to be published on October 9, 2024.

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Let me know if you have questions. **Please acknowledge receipt of this email.**

Thank you,

Rachel Rodriguez
DANR | Program Assistant
Rachel.Rodriguez@state.sd.us



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Aberdeen News
Watertown Public Opinion

PO Box 630567 Cincinnati, OH 45263-0567

AFFIDAVIT OF PUBLICATION

Rachel Rodriguez
Ronald Jongeling
45950 191st ST
Castlewood SD 57223-6001

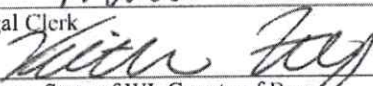
STATE OF SOUTH DAKOTA, COUNTY OF CODINGTON

The Watertown Public Opinion is, and during all the times hereafter mentioned was, a daily legal newspaper as defined in SDCL 17-2-2.1 through 17-2-2.4, as amended, published at Watertown, Codington County, South Dakota, by Watertown Public Opinion; that the notice, order or advertisement, a printed copy of which is attached, was published in said newspaper in the issue dated:

10/09/2024

and that the fees charged are legal.
Sworn to and subscribed before on 10/09/2024



Legal Clerk


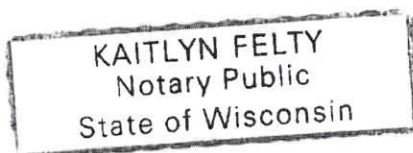
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3.7.27

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Tax Amount:	\$0.00	
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NOTICE OF
APPLICATION NO. 8889-3
to Appropriate Water

Notice is given that Ronald Jongeling, 45950 191st Street, Castlewood SD 57223 has filed an application for a water permit to appropriate an additional 0.67 cubic feet of water per second (cfs) from two existing wells authorized by Water Right No. 2528-3 to irrigate 9 additional acres. Water Right No. 2528-3 and Water Permit No. 8669-3, combined, appropriate 1.11 cfs from two wells completed into the Big Sioux: Brookings Aquifer located in the NW 1/4 NE 1/4 Section 1 for irrigation of 191 acres located in the S 1/2 NE 1/4, SE 1/4 Section 1; all in T113N-R52W. An investigation of the permit found the system capable of diverting an additional 0.67 cfs from the two existing wells and irrigating 9 additional acres within the area described above plus the N 1/2 NE 1/4, SE 1/4 NW 1/4, NE 1/4 SW 1/4 Section 1-T113N-R52W. This application, if approved, and Water Right No. 2528-3 and Water Permit No. 8669-3 will authorize a combined total of 1.78 cfs for irrigation of 200 acres. This site is located approximately seven miles south of Castlewood SD.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 8889-3 with qualifications because 1) unappropriated water is available, 2) existing domestic water uses and water rights will not be unlawfully impaired, 3) it is a beneficial use of water, and 4) it is in the public interest as it pertains to matters within the regulatory authority of the Water Management Board. The Chief Engineer's recommendation with qualifications, the application, and staff report are available at

<https://danr.sd.gov/public> or contact Ron Duvall for this information, or other information, at the Water Rights Program address provided below.

Any person interested in opposing this application or recommendation shall allege that the application, upon approval, will cause injury to the person that is unique from any injury suffered by the public in general. The injury must concern a matter either within the regulatory authority found in SDCL 46-2A-9 for approval or denial of the application, or other matter concerning the application within the regulatory authority of the board to act upon as defined by SDCL 46-2-9 and 46-2-11, or both. Any person meeting the petitioner requirements and wishing to be a party of record in a contested case hearing shall file a written petition to oppose the application with BOTH the applicant and Chief Engineer. A petition opposing the application shall be filed on a

form provided by the Chief Engineer. The petition form is available online at <https://danr.sd.gov/public> or by contacting the Chief Engineer. The Chief Engineer's address is "Water Rights Program, Foss Building, 523 E. Capitol, Pierre SD 57501" or call (605) 773-3352. The applicant's mailing address is given above. If contesting the Chief Engineer's recommendation, the applicant shall also file a petition. A petition filed by either an interested person or the applicant must be filed by October 21, 2024.

The petition shall include a statement describing the unique injury upon approval of the application on the petitioner, the petitioner's reasons for opposing the application, and the name and mailing address of the petitioner or the petitioner's legal counsel, if legal counsel is obtained.

Any interested person may file a comment on the application with the Chief Engineer. The comment shall be filed on a form provided by the Chief Engineer and is available online at

<https://danr.sd.gov/public> or by calling (605) 773-3352 or writing the Chief Engineer at the address provided above. Filing a comment does not make the commenter a party of record or a participant in any hearing that may be held. Any comment must be filed by October 21, 2024.

If the applicant does not contest the recommendation of the Chief Engineer and no petition to oppose the application is received, the Chief Engineer shall act on the application pursuant to the recommendation with no hearing held before the Water Management Board. If a petition opposing the application or contesting the recommendation is filed, then a hearing will be scheduled, and the Water Management Board will consider this application. Notice of the hearing will be given to the applicant and any person filing a petition.

Published once at the total approximate cost of \$56.91 and may be viewed free of charge at www.sdpublicnotices.com.

PROOF OF PUBLICATIONSTATE OF SOUTH DAKOTA)
County of Hamlin) SSI, LeeAnne Dufek

certify that the attached printed Notice was taken

from the Hamlin County
Republican

printed and published in _____

County of Hamlin and

state of South Dakota. The notice was published

in the newspaper on the following date:

Oct. 9, 2024Cost of Printing \$45.67LeeAnne Dufek
(Signature)10-9-24
(Title)Owner
(Date Signed)**NOTICE OF APPLICATION
NO. 8889-3 TO
APPROPRIATE WATER**

Notice is given that Ronald Jongeling, 45950 191st Street, Castlewood SD 57223 has filed an application for a water permit to appropriate an additional 0.67 cubic feet of water per second (cfs) from two existing wells authorized by Water Right No. 2528-3 to irrigate 9 additional acres. Water Right No. 2528-3 and Water Permit No. 8669-3, combined, appropriate 1.11 cfs from two wells completed into the Big Sioux: Brookings Aquifer located in the NW 1/4 NE 1/4 Section 1 for irrigation of 191 acres located in the S 1/2 NE 1/4, SE 1/4 Section 1; all in T113N-R52W. An investigation of the permit found the system capable of diverting an additional 0.67 cfs from the two existing wells and irrigating 9 additional acres within the area described above plus the N 1/2 NE 1/4, SE 1/4 NW 1/4, NE 1/4 SW 1/4 Section 1-T113N-R52W. This application, if approved, and Water Right No. 2528-3 and Water Permit No. 8669-3 will authorize a combined total of 1.78 cfs for irrigation of 200 acres. This site is located approximately seven miles south of Castlewood SD.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 8889-3 with qualifications because 1) unappropriated water is available, 2) existing domestic water uses and water rights will not be unlawfully impaired, 3) it is a beneficial use of water, and 4) it is in the public interest as it pertains to matters within the regulatory authority of the Water Management Board. The Chief Engineer's recommendation with qualifications, the application, and staff report are available at <https://danr.sd.gov/public> or contact Ron Duvall for this information, or other information, at the Water Rights Program address provided below.

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to act upon as defined by SDCL 46-2-9 and 46-2-11, or both. Any person meeting the petitioner requirements and wishing to be a party of record in a contested case hearing shall file a written petition to oppose the application with BOTH the applicant and Chief Engineer. A petition opposing the application shall be filed on a form provided by the Chief Engineer. The petition form is available online at <https://danr.sd.gov/public> or by contacting the Chief Engineer. The Chief Engineer's address is "Water Rights Program, Foss Building, 523 E Capitol, Pierre SD 57501" or call (605) 773-3352. The applicant's mailing address is given above. If contesting the Chief Engineer's recommendation, the applicant shall also file a petition. A petition filed by either an interested person or the applicant must be filed by October 21, 2024.

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If the applicant does not contest the recommendation of the Chief Engineer and no petition to oppose the application is received, the Chief Engineer shall act on the application pursuant to the recommendation with no hearing held before the Water Management Board. If a petition opposing the application or contesting the recommendation is filed, then a hearing will be scheduled, and the Water Management Board will consider this application. Notice of the hearing will be given to the applicant and any person filing a petition.

Published Oct. 9, 2024, at total cost of \$45.67 and may be viewed online at www.sdpublicnotices.com

RECEIVED**OCT 15 2024****OFFICE OF
WATER**

**STATE OF SOUTH DAKOTA
WATER LICENSE NO. 8889-3**

(1) Water Right No. 2528-3, held by Ronald Jongeling, 45950 191st St, Castlewood SD 57223, authorizes the diversion of 1.11 cubic feet of water per second (cfs) from groundwater, two wells (Big Sioux: Brookings Aquifer), for the irrigation of 125 acres, with a priority date of February 6, 1976.

The applicable portions of Water Right No. 2528-3 have been incorporated into this license.

Ronald Jongeling made Application No. 8669-3, October 11, 2022, for a water permit to add an additional 66 irrigated acres to what was already authorized by Water Right No. 2528-3, with no increase to the rate of diversion. Permit No. 8669-3, with a priority date of October 11, 2022, was approved January 9, 2023, and issued to the applicant for diversion of water with construction of the described water supply system to be completed on or before January 9, 2028, and for the application to beneficial use of water on or before January 9, 2032.

The permit holder submitted a "Notice of Completion of Works and Application of Water to Beneficial Use" form on April 6, 2024. The Notice stated the diversion system was completed and water was placed to beneficial use on June 1, 2023.

The applicable portions of Water Permit No. 8669-3 have been incorporated into this license.

Ronald Jongeling made Application No. 8889-3, July 31, 2024, for a water permit to divert 0.67 additional cfs and irrigation 9 additional acres, to what was already authorized by Water Right No. 2528-3 and Water Permit No. 8669-3. Permit No. 8889-3, with a priority date of July 31, 2024, was approved October 21, 2024, and issued to the applicant for diversion of water and for the application to beneficial use.

(2) It is certified that the permit holder has complied with the provisions of South Dakota State Law relating to completion of the construction of the water supply system and is entitled to divert 1.78 cubic feet of water per second for beneficial use. The locations of the diversion points are:

- Well #1: 630 ft S & 1,315 ft W of the NE corner Section 1, T113N, R52W (NW ¼ NE ¼)
(Latitude 44.62854 & Longitude -97.01199)
- Well #2: 1,020 ft S & 1,620 ft W of the NE corner Section 1, T113N, R52W (NW ¼ NE ¼)
(Latitude 44.62754 & Longitude -97.01283)

(3) The amount of appropriation may not exceed 2 acre-feet annually for each acre of land to which water is actually and beneficially applied for irrigation. The water is to be used during the following described annual period: April 1 – October 31.

(4) The permit holder has complied with the provisions of South Dakota State Law relating to the application of water to beneficial use to irrigate to following land:

Section 1, T113N-R52W, Hamlin County			
NE ¼ NE ¼	0.5 acres	NE ¼ SW ¼	1.5 acres
NW ¼ NE ¼	0.5 acres	NE ¼ SE ¼	37 acres
SW ¼ NE ¼	37 acres	NW ¼ SE ¼	40 acres
SE ¼ NE ¼	30.5 acres	SW ¼ SE ¼	25 acres
SE ¼ NW ¼	1.5 acres	SE ¼ SE ¼	26.5 acres

TOTAL: 200 acres

continued

(5) Pursuant to South Dakota Water Law 46-5-30.1 Ronald Jongeling, the holder and/or owner of Water Right No. 8889-3 is issued a license to appropriate water, the right to use 1.78 cubic feet of water per second from groundwater, two wells (Big Sioux: Brookings Aquifer), with priority dates of February 6, 1976 (125 acres & 1.11 cfs), October 11, 2022 (66 acres), and July 31, 2024 (9 acres & 0.67 cfs), from the location specified in (2) of this license for irrigation purposes.

This license is subject to South Dakota Water Law, any limitations or conditions listed in Water Right No. 8889-3 and subject to the following qualifications:

1. The wells approved under this Permit, Water Right No. 2528-3, and Water Permit No. 8669-3 are located near domestic wells and other wells which may obtain water from the same aquifer. Water withdrawals must be controlled so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.
2. This Permit is approved subject to the irrigation water use questionnaire being submitted each year.

Eric Gronlund

Eric Gronlund, Chief Engineer
Water Rights Program
Department of Agriculture and Natural Resources

NOV 01 2024

date



Report of Examination of Works and/or Application of Water to Beneficial Use For Permit No. 8669-3 & Right No. 2528-3

I have this day, July 16, 2024, made a thorough examination of the water use system constructed by Ronald Jongeling, 45950 191st St, Castlewood, SD 57223 of Permit No. 8669-3, bearing the priority of October 11, 2022 and Water Right No. 2528-3, bearing the priority date of February 6, 1976, authorizing the diversion of 1.11 cu. ft. per second of the waters of the Big Sioux:Brookings Aquifer for irrigation purposes, in Hamlin County.

A. Works used to divert the water:

Well Information: SEE SD WATER WELL COMPLETION REPORT (WR 2528-3)

- 1) Well Drilling Firm: Bullis Brothers
- 2) No. of Wells 2 similar
- 3) Depth(s) 37 feet
- 4) Well log is available Y

Casing:

- 1) Diameter 16 inches
- 2) Length 30 feet
- 3) Type Plastic

Screen:

- 1) Type Plastic
- 2) Length 7 feet
- 3) Static water level 6 feet

Pump:

- 1) Make Submersibles
- 2) Model Unknown
- 3) Size Unknown
- 4) Capacity 800 GPM

Motor:

- 1) Make Unknown
- 2) Model No. Unknown
- 3) Horsepower rating Unknown hp

B. Works used to transport water to place of use:

- 1) Type Buried PVC
- 2) Size 8 inches
- 3) Length 3,000 feet

C. Works used to apply water to beneficial use:**Center pivot:**

- 1) Make Valley
- 2) Overall length 1100 feet
- 3) Number of towers 7
- 4) End gun Y
- 5) Capacity 800 GPM

Chemigation Equipment:

- 1) Does chemigate N

D. Compliance with Permit Requirements:

- 1) Permit qualifications being abided by N, pump capacity is greater than permitted
- 2) Irrigation Questionnaires checked to determine if permit owner started irrigation by the end of construction period Y
- 3) Exceptions to compliance are: irrigating more acres than permitted

E. Condition and Location:

1. The system is in good condition with the point(s) of diversion located as follows: From the NE corner Sec 1 T113N R52W WELL #1: 630 ft S & 1315 ft W, Lat 44.62854 Long -97.01199 (NW 1/4 NE 1/4) WELL #2: 1020 ft S & 1620 ft W, Lat 44.62754 Long -97.01283 (NW 1/4 NE 1/4).
2. The works are capable of diverting and conveying to the place of use 1.78 cu. ft. per second of water which is to be used for irrigation. Water has been put to beneficial use to the maximum extent as follows:
legal description/acreage
All land in Sec 1 T113N R52W
NE 1/4 NE 1/4 - 0.5 ac
NW 1/4 NE 1/4 - 0.5 ac
SW 1/4 NE 1/4 - 37 ac
SE 1/4 NE 1/4 - 30.5 ac
SE 1/4 NW 1/4 - 1.5 ac
NE 1/4 SW 1/4 - 1.5 ac
NE 1/4 SE 1/4 - 37 ac
NW 1/4 SE 1/4 - 40 ac
SW 1/4 SE 1/4 - 25 ac
SE 1/4 SE 1/4 - 26.5 ac
comprising a total of 200 acres of land and the license should be issued for 1.11 cfs
3. All structures, wells and lands on map Y/N

F. Comments or other permit(s) associated with the project:

I contacted Mr. Bradley Jongeling (605/881-3432), his son, regarding this Permit. The mailing address in the permit materials is current. The phone number should be a current cell number.

FSA maps and the ArcGIS program were used to estimate the irrigated acreage and to construct the attached well location and irrigated land map.

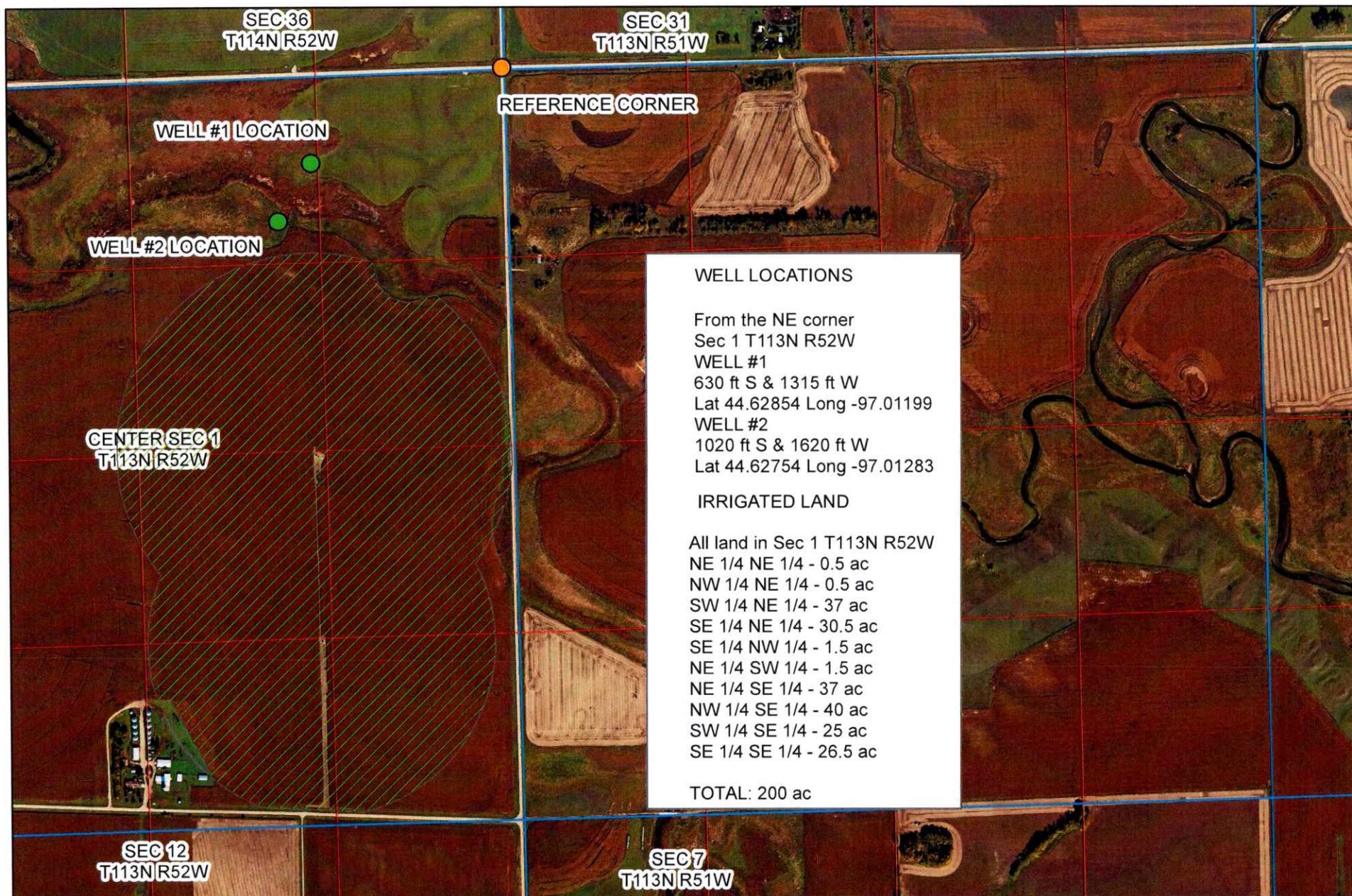
Well #1 is a recently constructed replacement well. The wells were located with GPS technology.

The 2022 Irrigation Questionnaire report was used to establish the pump flow rate. Mr. Jongeling indicated that while the wells begin the season operating at 800 gpm, as the irrigation season progresses the pumps struggle to maintain that production, ultimately reducing to approximately 500 gpm.

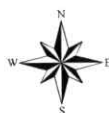


Darrell DeBoer
Water Rights Inspector
DENR, Water Rights Program

Date report completed: July 16, 2024



0 750 1,500 3,000 4,500 6,000 Feet



0 750 1,500 3,000 4,500 6,000 Feet



**DEPARTMENT of AGRICULTURE
and NATURAL RESOURCES**

JOE FOSS BUILDING
523 E. CAPITOL AVE
PIERRE SD 57501-3182
danr.sd.gov

NOV 01 2024

2528-3

8669-3

8889-3

Ronald Jongeling
45950 191st St
Castlewood SD 57223

Dear Mr. Jongeling:

Enclosed is Water License No. 8889-3. This is the final water right document completing your process of obtaining a Water Right. Included with your license is a map prepared by the staff engineer who conducted the field investigation.

For your information SDCL 46-6-27 requires that if in the future, the owner of an existing well, constructs a replacement well and does not plan to use the old well, the old well is considered abandoned and must be plugged. Also, any well that is being used or is not considered abandoned must be valved and controlled, if flowing, or sealed and capped so that no leaking occurs either underground or at the surface.

So long as you use the water beneficially, as stated in the Water License, State Water Laws provide that you have a continuing right to use the water. If you have any questions, please contact our office.

Sincerely,

Eric Gronlund, Chief Engineer
Water Rights Program
(605) 773-3352

NOTE: The applicable portions of Water Right No. 2528-3 & Water Permit No. 8669-3 have been incorporated into Water Right No. 8889-3.

enclosures



**DEPARTMENT of AGRICULTURE
and NATURAL RESOURCES**

JOE FOSS BUILDING
523 E. CAPITOL AVE
PIERRE SD 57501-3182
danr.sd.gov

STATE OF SOUTH DAKOTA)
) SS
COUNTY OF HUGHES)

**Affidavit of Public Notice
Posting on DANR Website**

Pursuant to SDCL § 46-2A-4, public notice of the following application was posted on the DANR web site at <https://danr.sd.gov/public>. The posted public notice is the same notice as published in the pertinent newspaper(s) and a copy of the public notice is maintained in the application file. If the application is contested, the posting is moved to the DANR contested case website at <https://danr.sd.gov/public/ContestedCase.aspx> until final action is taken on the application pursuant to SDCL § 46-2A-4.

Application No.: 8889-3

Name of Applicant: Ronald Jongeling

Date of Posting: 10/7/2024

Date of Removal: 11/1/2024

Ron Duvall, Engineer III

11/1/2024

Date

Subscribed and sworn to before me, a notary public, this 15th day of Nov, 2024.

Notary Public - South Dakota

My commission expires:

Rachel Rodriguez
My Commission Expires
May 16, 2029

(SEAL)

