

WATER PERMIT NO. 8913-3

Name of Applicant: **Dennis Wolff**

Address: **34365 104th Street, Long Lake SD 57457**

Phone: **605-577-6620**

Amount of Water Claimed: **2.2**

Total Acres: **157**

Source of Water Supply: **Groundwater**

Water to be used for: **Irrigation**

County: **McPherson**

Type of Waste Disposal System:

Location: **Approx. 18 miles northwest of Leola**

PRIORITY Date Received: **11-27-24**

Application/License Fee: **\$1,050.00**

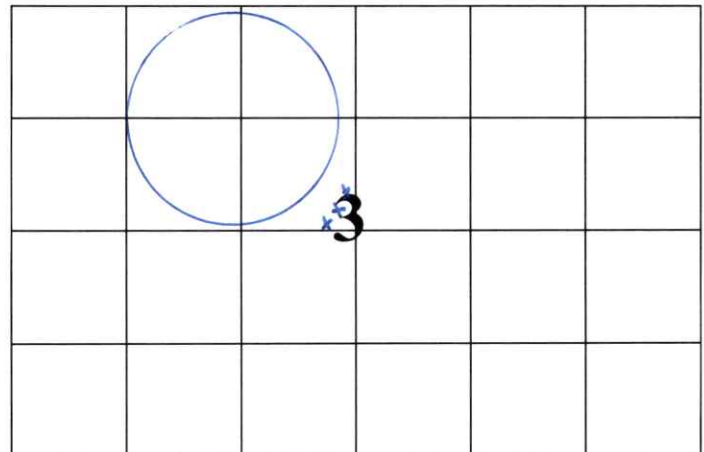
Corrected Application Received: **11-27-24**

Period of Annual Use: **April 1 – November 1**

Remarks:

Diversion Point: **SE 1/4 NW 1/4 Sec 3-T127N-R70W**

Land to be Irrigated: **NW 1/4 Sec 3-T127N-R70W**



Depth of Well: **40**

Well Driller: **Manikowski Drilling**

Remarks:

Type of Map: **aerial**

Reviewed and the Number Assigned on: **12-3-24**

By: **Rachel Rodriguez**

Notice of Hearing - date to intervene: _____

SOUTH DAKOTA
WATER PERMIT NO. 8913-3

Date of first receipt of application November 27, 2024.

The Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 8913-3 to Dennis Wolff, 34365 104th Street, Long Lake SD 57457, 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. 8913-3 appropriates 2.2 cubic feet of water per second from up to four wells to be completed into the McPherson Management Unit of the Spring Creek Aquifer (approximately 40 feet deep) located in the SE 1/4 NW 1/4 Section 3 for irrigation of 157 acres located in the NW 1/4 Section 3; all in T127N-R70W. This site is located approximately three and one-half miles west of Long Lake 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 – November 1.
3. The date from which applicant may claim right is November 27, 2024.
4. The date of approval of Permit No. 8913-3 is February 18, 2025.
5. One-fifth of the construction is to be completed on or before August 18, 2027.
6. All construction is to be completed on or before February 18, 2030.
7. Water is to be put to beneficial use on or before February 18, 2034.
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 Permit No. 8913-3 are located near domestic wells and other wells which may obtain water from the same aquifer. The well owner, under this Permit must control withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.
2. The proposed wells authorized by Permit No. 8913-3 must be constructed by a licensed well driller and construction of the well and installation of the pump must comply with Water Management Board Well Construction Rules, Chapter 74:02:04 with the well casing pressure grouted (bottom to top) pursuant to Section 74:02:04:28.
3. 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

FEB 28 2025
date



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

PAID

NOV 27 2024

Ck# 6936

Rec't# _____

Mail to: SD DANR, Water Rights 523 E Capitol Ave Pierre, SD 57501-3182 ph. (605) 773-3352	No. <u>8913-3</u> Hydrologic Unit <u>10130104</u>
	Basin <u>Missouri R</u>
	Newspaper <u>Northwest Blade</u>
	<u>Aberdeen American News</u> (office use only)

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 Dennis Wolff
Note: The "Name to Appear on Irrigation Permit" must be the name in which the property to be irrigated is held in.
- Mailing Address 34365 104th St. Long Lake, SD 57457
(Address) (City) (State) (Zip Code)
- Phone 605-577-6620 Mobile 605-380-5457 Email drwolff@valleytel.net
2. Amount of water claimed 2.2 *CFS or 900 **GPM ***AF Total Acreage 157
(*Cubic Feet per Second) (**Gallons per Minute) (***)Acre Feet - storage capacity of dam/dugout or annual use if applicable)
3. Source of water supply up to four wells previously auth. by WP No. 8052-3
4. Location of point of diversion SE 1/4 NW 1/4 Sec 3-T127N-R70W
(example - 3 wells in SW1/4 NE1/4 section 12-T104N-R53W)
- County McPherson
5. County or counties where water will be used McPherson
6. Annual period during which water is to be used April 1 - November 1
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
all in Sec 3-T127N-R70W		NW 1/4 NW 1/4	40
		NE 1/4 NW 1/4	40
		SW 1/4 NW 1/4	40
		SE 1/4 NW 1/4	37

8. Give a description of the project. (Attach sheet if more space is needed)
Plan to irrigate approx. 140 acres in NW 1/4 Sec. 3-127N-R70W.
It will be irrigated by a center pivot system supplied by
3-4 wells in the SE area of this quarter section. System
will be used to produce agricultural crops.

1. Dennis Wolff, Dennis Wolff owner, 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. Attach a map and any other technical information. (see instructions)

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DEC 02 2024

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WATER

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 up to 4 Have test holes been drilled? ☒ Yes ☐ No Drilled by Manitowski Drilling of Oakes, ND
(if yes, please provide copies of logs)
- b) If existing wells, how many _____ Provide copy of log(s), if available. Drilled by _____

For either existing or proposed wells:

- c) Well Depth (required) 40 Depth to Top of Water Bearing Material _____ Depth to Water from Surface _____
- d) Distance to nearest domestic well on applicant's property 4 mi. Property owned by others 3/4 mi.

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

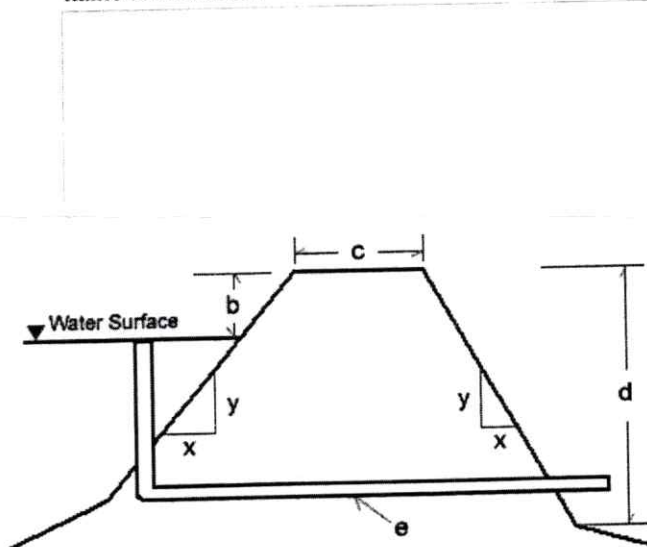
3. Dugout Information

- 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

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DEC 02 2024

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106th St

106th St

127N 70W
Section: 08

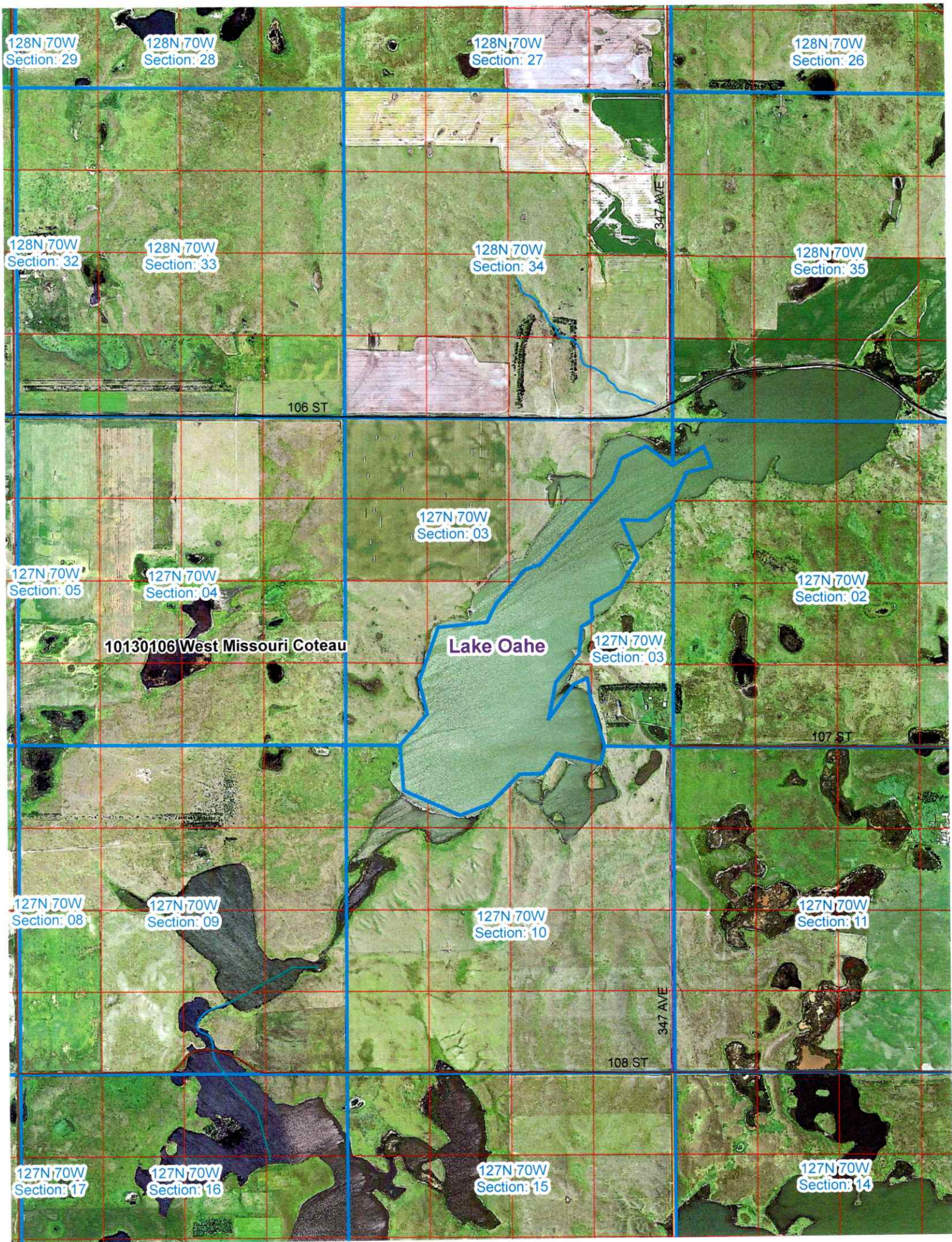
NW 1/4 Sec 3-127N-70W

127N 70W
Section: 08

Long Lake

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107th St



128N 70W
Section: 29

128N 70W
Section: 28

128N 70W
Section: 27

128N 70W
Section: 26

128N 70W
Section: 32

128N 70W
Section: 33

128N 70W
Section: 34

128N 70W
Section: 35

106 ST

347 AVE

127N 70W
Section: 05

127N 70W
Section: 04

127N 70W
Section: 03

127N 70W
Section: 02

10130106 West Missouri Coteau

Lake Oahe

127N 70W
Section: 03

107 ST

127N 70W
Section: 08

127N 70W
Section: 09

127N 70W
Section: 10

127N 70W
Section: 11

347 AVE

108 ST

127N 70W
Section: 17

127N 70W
Section: 16

127N 70W
Section: 15

127N 70W
Section: 14

RECEIPT

WATER RIGHTS PROGRAM South Dakota Department of Agriculture and Natural Resources

Date December 2nd, 2024

RECEIVED OF Dennis Wolfe 34365 104th Street Long Lake SD 57457

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

Fee for Application for Permit No. <u>8912-3</u> to Appropriate Water, to construct and to put water to beneficial use	\$ <u>850.00</u>
Fee for Application for Permit No. _____ to Appropriate Water for Future use	\$ _____
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. <u>8913-3</u>	\$ <u>200.00</u>
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>1050.00</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. 8913-3, Dennis Wolff**

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. 8913-3, Dennis Wolff, 34365 104th Street, Long Lake SD 57457.

The Chief Engineer is recommending APPROVAL of Application No. 8913-3 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 Water Permit No. 8913-3 are located near domestic wells and other wells which may obtain water from the same aquifer. The well owner, under this Permit must control withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.
2. The proposed wells authorized by Permit No. 8913-3 must be constructed by a licensed well driller and construction of the well and installation of the pump must comply with Water Management Board Well Construction Rules, Chapter 74:02:04 with the well casing pressure grouted (bottom to top) pursuant to Section 74:02:04:28.
3. 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
January 28, 2025

Report to the Chief Engineer
On Water Permit Application No. 8913-3

Dennis Wolff

January 29, 2025

Water Permit Application No. 8913-3 proposes to appropriate 2.2 cubic feet of water per second (cfs) from up to four wells to be completed into the McPherson management unit of the Spring Creek aquifer (approximately 40 feet deep) located in the SE $\frac{1}{4}$ NW $\frac{1}{4}$ of Section 3 for the irrigation of 157 acres located in the NW $\frac{1}{4}$ of Section 3; all in T127N-R70W. The site is located in McPherson County approximately 3.5 miles west of Long Lake, South Dakota. The land to be irrigated is currently covered under Water Permit No. 8052-3. However, Water Permit No. 8052-3 was not developed before the end of its construction period. If this application is approved, Water Permit No. 8052-3 will be cancelled.

AQUIFER: Spring Creek: McPherson (SC: M)

HYDROGEOLOGY:

The Spring Creek aquifer is a glacial outwash that ranges from fine to coarse sand to silty gravel with beds of silty sand or clay that was likely deposited during the last episodes of the melting of the continental ice sheet (Hamilton, 1974 and 1982). Deposition was limited to channels between large blocks of ice and till and thus the aquifer exists in narrow channels that are generally less than three miles wide (Hamilton, 1974). The McPherson management unit underlies approximately 101,200 acres (about 160 square miles) with an estimated 307,000 acre-feet of recoverable water in storage (Figure 1) (Hamilton, 1982; Hedges et al., 1982). In McPherson County, the Spring Creek: McPherson aquifer has a documented maximum aquifer thickness of 85 feet and an average thickness of approximately 30 feet (Hamilton, 1982).

No water well or test hole completion report was submitted with Water Permit Application No. 8913-3. Water well completion reports on file with the DANR-Water Rights Program for wells completed into the Spring Creek: McPherson aquifer within approximately five miles of the proposed diversion points indicate saturated aquifer thicknesses ranging from approximately 5 to 35 feet, with the depth to the top of aquifer materials ranging from approximately 10 to 30 feet below the ground surface, and static water levels at well completion varying from approximately 10 to 30 feet below the ground surface (Water Rights, 2025d). Based on the water well completion reports on file for nearby wells completed into the aquifer, and the lithologic logs on file for nearby observation wells, the Spring Creek: McPherson aquifer is expected to be unconfined near the proposed diversion points (SDGS, 2025; Water Rights, 2025b and 2025d).

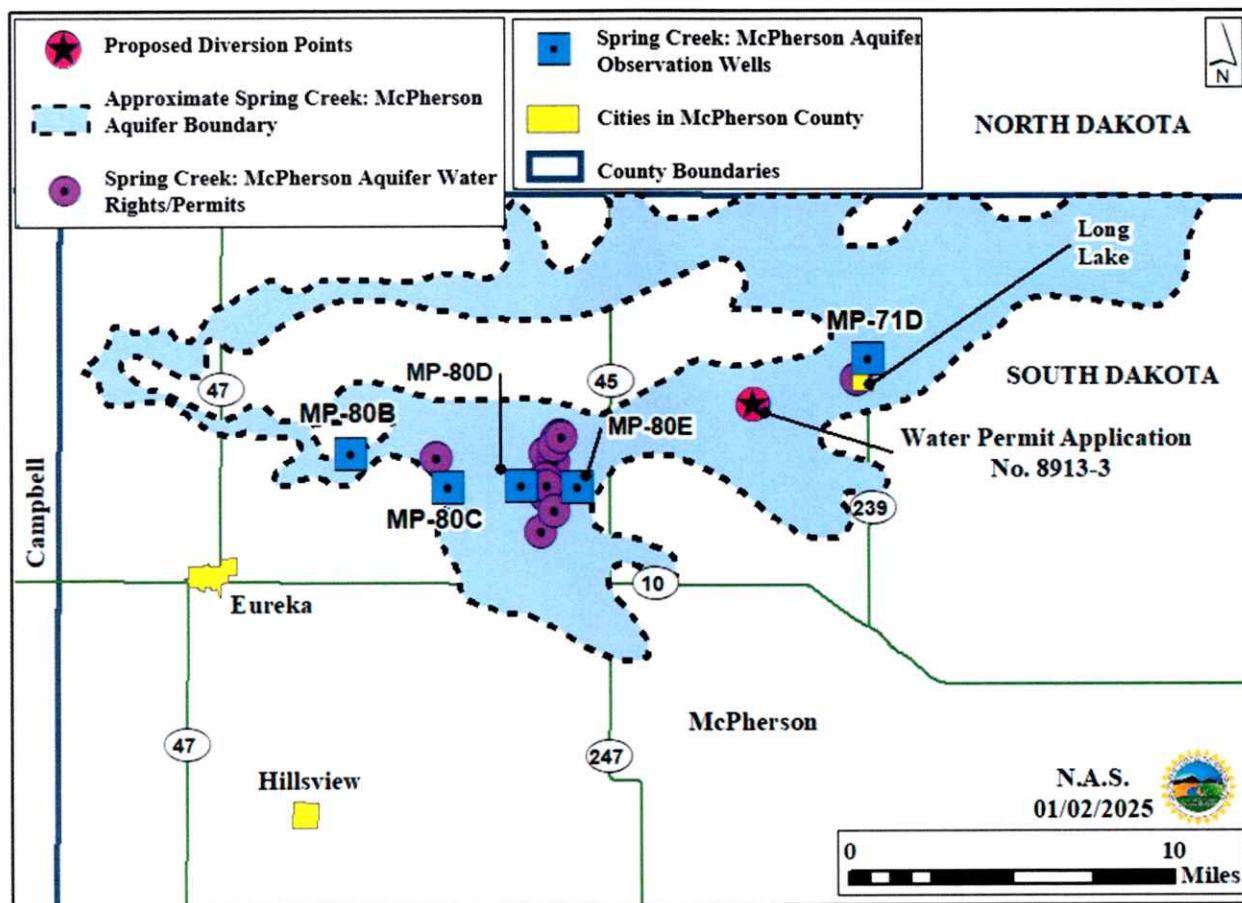


Figure 1. Map of the approximate Spring Creek: McPherson aquifer delineated from Hedges and others (1982), the proposed diversion points for Water Permit Application No. 8913-3, and the Spring Creek: McPherson aquifer water rights/permits and observation wells (Water Rights, 2025b and 2025c)

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 Spring Creek: McPherson aquifer.

WATER AVAILABILITY:

Water Permit Application No. 8913-3 proposes to appropriate water from the Spring Creek: McPherson 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 Spring Creek: McPherson 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 Spring Creek: McPherson aquifer must be considered.

HYDROLOGIC BUDGET:

Recharge

Recharge to the Spring Creek: McPherson aquifer is by the infiltration of precipitation through vertical percolation and lateral inflow from adjacent till (Hamilton, 1982). A recharge rate has not been quantified specifically for the Spring Creek: McPherson aquifer. Hedges and others (1982 and 1985) describe the Spring Creek: McPherson aquifer as a non-buried surface system aquifer. Other non-buried surface system aquifers in this vicinity include the Bowdle and Selby aquifers. Using observation well analysis, recharge rates for these aquifers were estimated to be 2.0 to 2.7 inches per year for the Bowdle aquifer’s management units and 2.0 inches per year for the Selby aquifer (Hedges et al., 1985). Based on the recharge rates for these geographically and hydrologically similar aquifers, it is assumed the Spring Creek: McPherson aquifer has a recharge rate of 2.0 inches per year. The McPherson management unit is estimated to underly 101,200 acres (Hedges et al, 1982); therefore, the average annual recharge rate of the Spring Creek: McPherson aquifer is approximately 16,867 acre-feet per year.

Discharge

Discharge from the Spring Creek: McPherson aquifer is primarily through well withdrawals (Water Rights, 2025c). Hedges and others (1982) noted, “aquifers of the surface system may locally be hydrologically connected to aquifers of the Intermediate or Basal Systems.” Therefore, discharge to adjacent aquifers can occur in surface system aquifers when hydrologically connected to adjacent, or underlying aquifers. Additionally, evapotranspiration is expected when the water level of the Spring Creek: McPherson aquifer is at or near land surface.

Currently, there are 12 water rights/permits authorized to appropriate water from the Spring Creek: McPherson aquifer (Table 1) (Water Rights, 2025c).

The applicant holds Water Permit No. 8052-3 authorizing a diversion of 2.2 cfs from up to four wells to be completed into the Spring Creek: McPherson aquifer in the same location proposed by this application, with the system related to this permit not yet constructed at this time. The construction period for Water Permit No. 8052-3 has passed the authorized time frame and the permit will be cancelled for non-construction. Therefore, the estimated use for Water Permit No. 8052-3 will not be included in this analysis, resulting in a total of 11 Spring Creek: McPherson aquifer water rights/permits that need to be accounted for in review of a hydrologic budget.

Table 1. Water rights/permits authorized to appropriate water from the Spring Creek: McPherson aquifer (Water Rights, 2025c)

Permit No.	Name	Status	Use	Authorized Diversion Rate (cfs)	Acres
3012-3	Marvin and Mark Morlock	LC	IRR	2	21
3925A-3	Jeff Neuharth	LC	IRR	2.28	160
5706-3	Border Club	LC	COM	0.013	
6258A-3	Samuel and Samantha Braun	LC	IRR	7	490
6258B-3	Mark and Kim Hoffman	LC	IRR	1.89	132
7304-3	Michael C Neuharth	LC	IRR	1.78	136
7323A-3	Mark and Kim Hoffman	LC	IRR	2.67	198
7323B-3	Mark and Heidi Morlock	LC	IRR	0.89	66
8052-3	Dennis Wolff	PE	IRR	2.2	157
8232-3	Sharon Braun Family Farms LP	LC	IRR	5.79	380
8430-3	Laverne Neuharth	PE	IRR	0.89	66
8477-3	Larry Braun Farms LP	PE	IRR	1.78	132
LC: Licensed Water Right, PE: Water Permit, IRR: Irrigation, COM: Commercial					

Currently, Water Right No. 5706-3 is the only water right authorized to appropriate water from the Spring Creek: McPherson aquifer for non-irrigation use (Water Rights, 2025c). It is held by the Border Club for commercial use (Water Rights, 2025c). Historically, average water use by non-irrigation appropriations limited by an instantaneous diversion rate have been assumed to be pumping 60% of full time at the respective permitted diversion rate. Water rights/permits limited by an annual volume are assumed to withdraw their entire respective annual volume limitation. This is a standard method used by the DANR-Water Rights Program for estimating annual withdrawals by non-irrigation appropriations from an aquifer (Water Rights, 2025c). Therefore, assuming 60% of full-time pumping, the estimated water use under Water Right No. 5706-3 is approximately 5.65 acre-feet of water annually.

Currently, there are ten irrigation water rights/permits authorized to appropriate water from the Spring Creek: McPherson aquifer (excluding Water Permit No. 8052-3, which is subject to cancellation as system has not been constructed and no reported water use to date) (Water Rights, 2025c). Irrigation water rights/permits have been typically required to report their annual usage on an irrigation questionnaire (IQ) since 1979. This reported use is shown on Table 2. The estimated average annual withdrawal rate for the Spring Creek: McPherson aquifer irrigation water rights/permits that have reported over the period of record (1979 to 2023) is approximately 881 acre-feet per year (Water Rights, 2025a). To reflect the current development of irrigation water rights/permits more accurately, the average annual withdrawal rate for irrigation appropriations that have reported from 2014 to 2023 is approximately 1,214 acre-feet per year (Water Rights, 2025a).

There are domestic wells completed into the Spring Creek: McPherson aquifer that do not require a water right/permit, so the withdrawal amount from those wells is unknown (Water Rights, 2025d). Due to their relatively low diversion rates, withdrawals from domestic wells are not considered to be a significant portion of the hydrologic budget. Therefore, the annual quantity of water withdrawn by domestic wells is estimated to be negligible to the hydrologic budget of the Spring Creek: McPherson aquifer.

Hydrologic Budget Summary

The average annual recharge of the Spring Creek: McPherson aquifer is estimated to be approximately 16,867 acre-feet per year based on recharge rates to geographically and hydrologically similar aquifers. The average annual discharge of the Spring Creek: McPherson aquifer totals approximately 1,377 acre-feet per year: non-irrigation: 5.65 acre-feet/year, irrigation (average 2014 to 2023): 1,214 acre-feet/year, Water Permit Application No. 8913-3 (if approved, assuming one-foot application rate per authorized acre): 157 acre-feet/year. Based on the hydrologic budget, there is a reasonable probability unappropriated water is available from the Spring Creek: McPherson aquifer for the proposed appropriation.

Table 2. Reported historic irrigation use from the Spring Creek: McPherson aquifer (Water Rights, 2025a)

Year	No. of Permits	Reported Pumpage (ac-ft)
1979	6	380.67
1980	5	566.08
1981	6	308.18
1982	3	211.58
1983	3	256.15
1984	5	388
1985	4	410
1986	3	198
1987	3	350
1988	4	1,075.2
1989	4	838
1990	4	715
1991	4	456.1
1992	4	374.8
1993	4	21
1994	4	317.19
1995	4	120.64
1996	4	317
1997	4	285
1998	4	442.37
1999	4	340.49
2000	4	560.3
2001	4	611.4
2002	5	2,095.91
2003	5	1,904.35
2004	5	1,224.48
2005	5	1,415.8
2006	5	2,770.28
2007	4	1,545.84
2008	4	1,351.83
2009	4	606.04
2010	4	1,004.81
2011	4	890.36
2012	6	1,388.51
2013	7	1,768.36
2014	7	811.36
2015	8	1,357.74
2016	8	1,208.32
2017	8	1,811.98
2018	10	898.09
2019	10	324.03
2020	10	669.57
2021	12	1,877.6
2022	12	1,868.29
2023	11	1,316.45
Min	3	21
Max	12	2,770
Avg (1979 to 2023)	6	881
Avg (2014 to 2023)	10	1,214

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.

Observation wells provide data on how the aquifer reacts to regional climatic conditions and local pumping. The DANR-Water Rights Program monitors five observation wells completed into the Spring Creek: McPherson aquifer (Water Rights, 2025b). The observation wells and their approximate distances to the proposed diversion points are MP-80E (approximately 6 miles southwest), MP-80D (approximately 7.6 miles southwest), MP-80C (approximately 9.8 miles southwest), MP-80B (approximately 12.5 miles southwest) and MP-71D (approximately 3.8 miles northeast) (as shown in Figure 1) (Water Rights, 2025b). The hydrographs for these observation wells are displayed in Figures 2 to 6 (Water Rights, 2025b). 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 the observation wells display stable to increasing water levels over their respective periods of record. The effects of climatic conditions are clear on the hydrographs because water levels are rising during wetter periods (early spring snowmelt and precipitation) and slowly declining to a stable water level during drier periods. Irrigation development has increased over the last twenty years appropriating water from the Spring Creek: McPherson aquifer and the effects of pumping can be seen on the hydrographs for observation wells MP-80D and MP-80E which are located near multiple irrigation wells (Figure 1) (Water Rights, 2025a and 2025b). However, the hydrographs show that the aquifer consistently recovers after an irrigation season is finished and the stable to rising water levels in observation wells shows the aquifer is not being stressed by pumping. Aquifer recovery indicates that climatic conditions and therefore, the effects of recharge to and natural discharges from the aquifer govern the long-term fluctuations in aquifer water level rather than the impacts of pumping from the Spring Creek: McPherson 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.

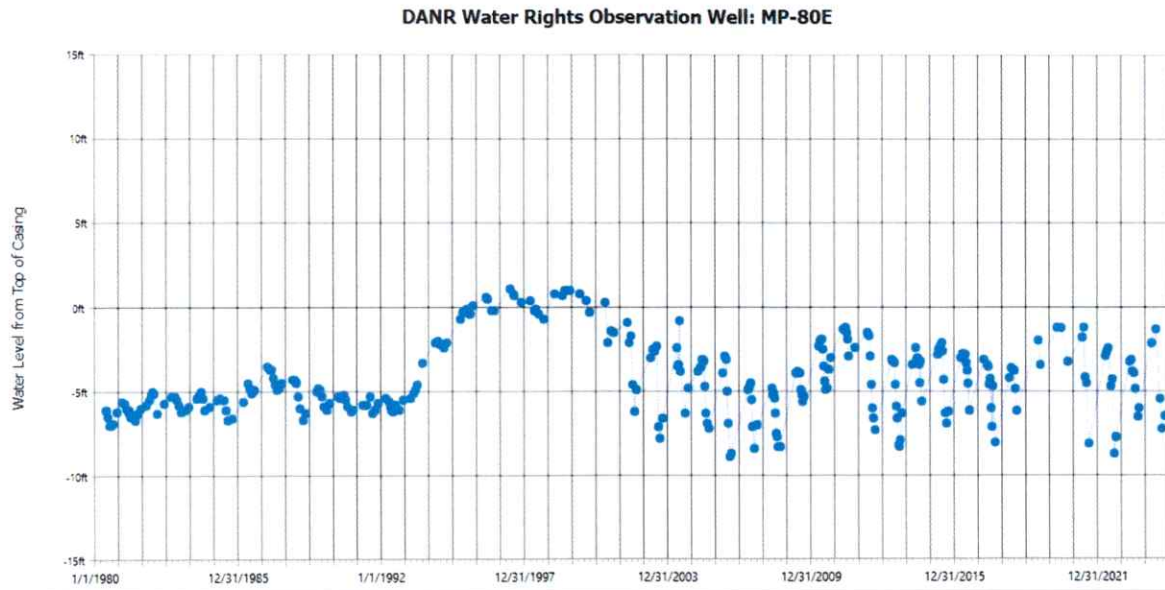


Figure 2. Hydrograph for observation well MP-80E (Water Rights, 2025b)

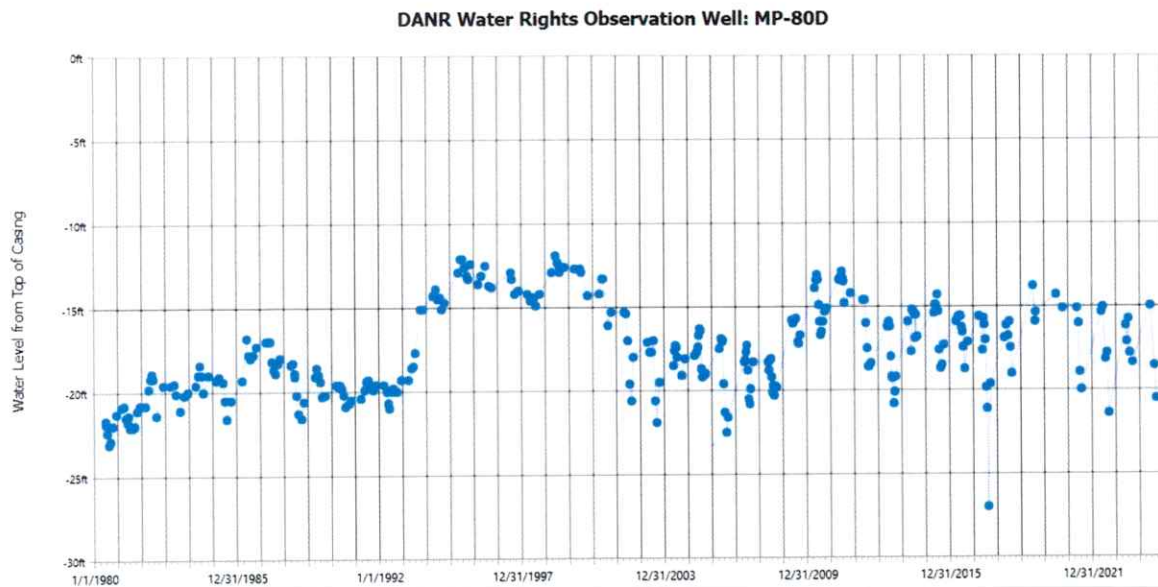


Figure 3. Hydrograph for observation well MP-80D (Water Rights, 2025b)

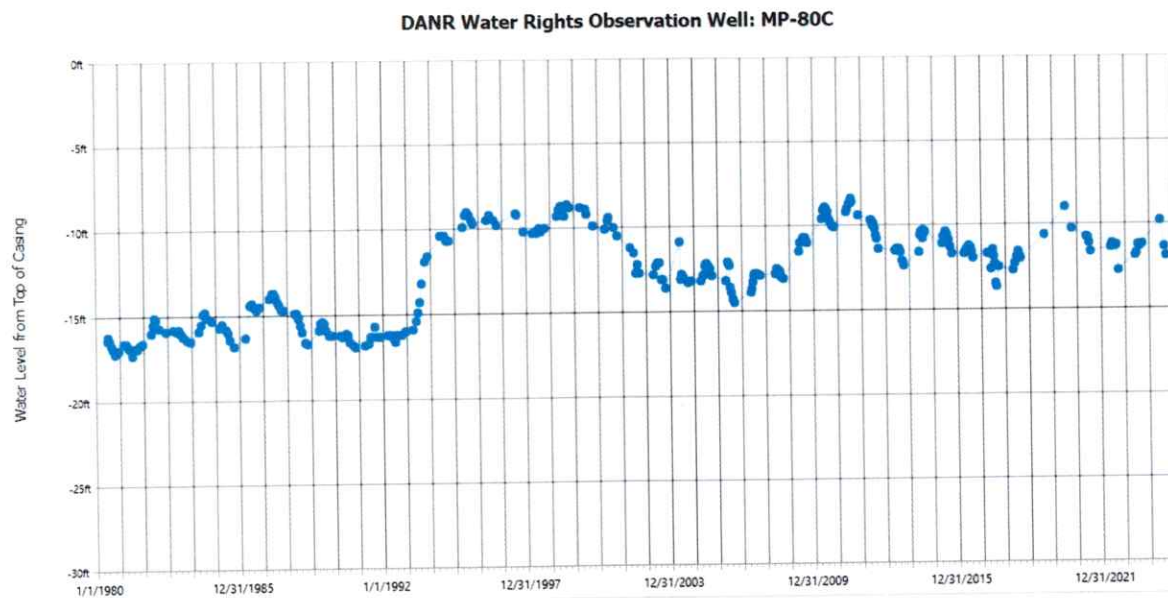


Figure 4. Hydrograph for observation well MP-80C (Water Rights, 2025b)

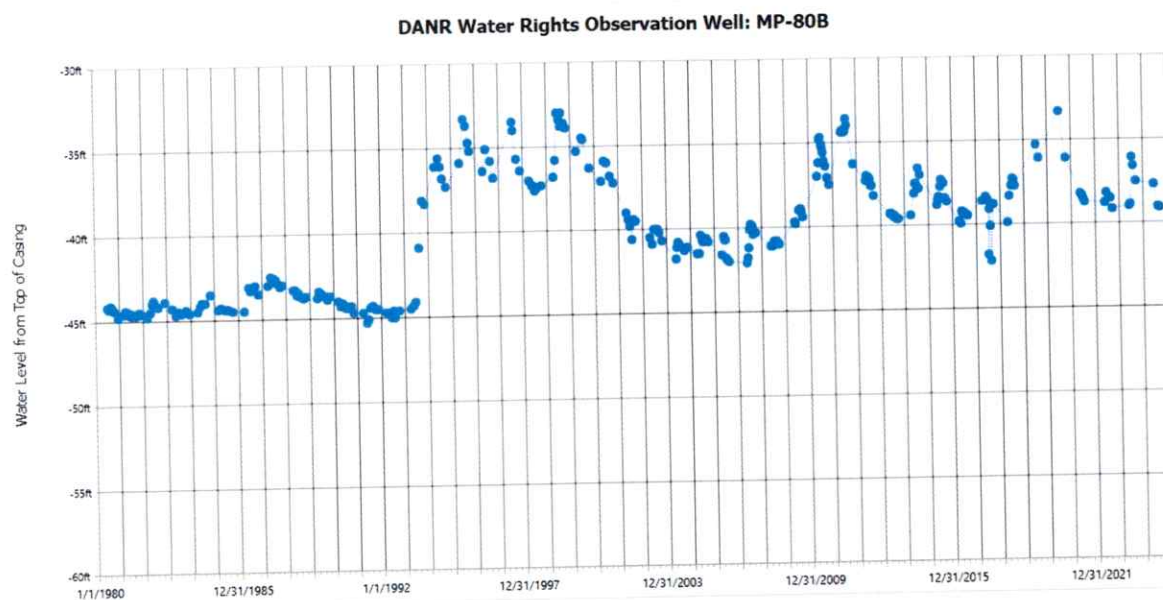


Figure 5. Hydrograph for observation well MP-80B (Water Rights, 2025b)

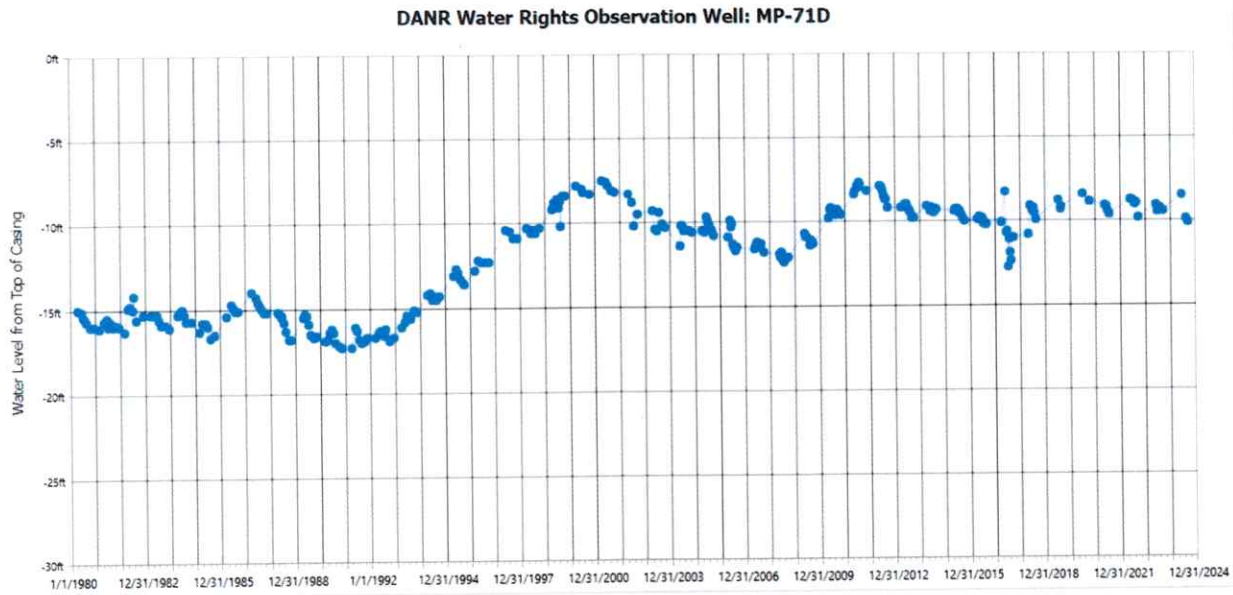


Figure 6. Hydrograph for observation well MP-71D (Water Rights, 2025b)

POTENTIAL FOR UNLAWFUL IMPAIRMENT OF EXISTING WATER RIGHTS:

Currently, there are 12 water rights/permits authorized to appropriate water from the Spring Creek: McPherson aquifer (Water Rights, 2025c). The closest water right/permit (not held by the applicant) to the proposed diversion points is Water Right No. 5706-3, which is held by Border Club. The diversion point for Water Right No. 5706-3 is located approximately 3.2 miles east-northeast of the proposed diversion points for this application (Table 3) (Figure 7) (Water Rights, 2025c).

There are domestic wells on file with the DANR-Water Rights Program that are completed into the Spring Creek: McPherson aquifer, with the closest domestic well on file (not held by the applicant) located approximately 0.75 miles southeast of the proposed diversion points (Water Rights, 2025d). There could potentially be other domestic wells completed into the Spring Creek: McPherson aquifer near the proposed diversion points that are not on file with the DANR-Water Rights Program. The location of the domestic wells in the well completion report database maintained by the Water Rights Program is based on the location listed by the driller on the well completion report.

Table 3. Water rights/permits authorized to withdraw water from the Spring Creek: McPherson aquifer within approximately five miles of the proposed diversion points, as shown in Figure 7 (Water Rights, 2025c)

Permit No.	Name	Status	Use	Authorized Diversion Rate (cfs)	Acres
5706-3	Border Club	LC	COM	0.013	
8052-3	Dennis Wolff	PE	IRR	2.2	157
LC: Licensed Water Right, PE: Water Permit, IRR: Irrigation, COM: Commercial					

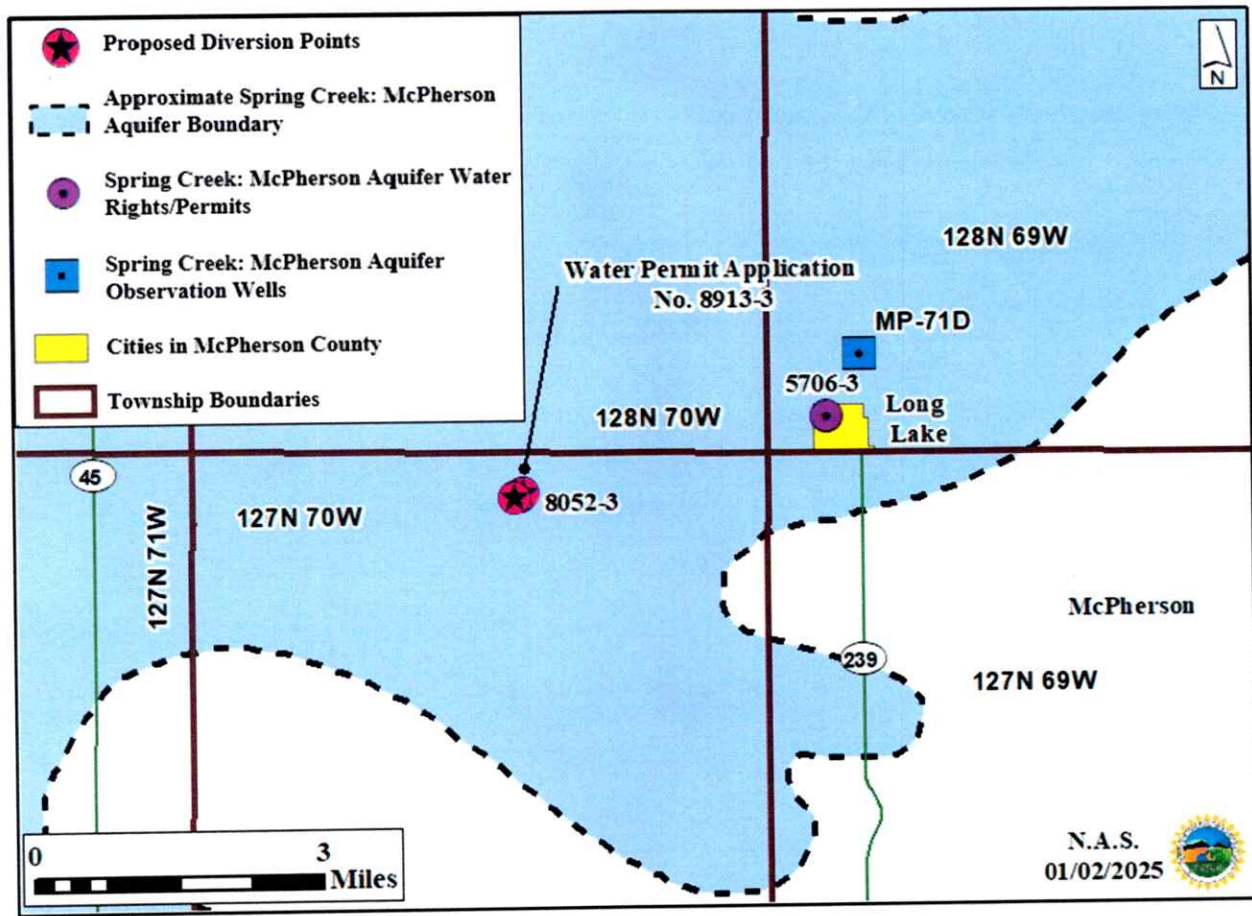


Figure 7. Location of the proposed diversion points for Water Permit Application No. 8913-3 with the Spring Creek: McPherson aquifer water rights/permits and the observation well within approximately five miles (Water Rights, 2025b and 2025c)

The Spring Creek: McPherson aquifer is generally under unconfined aquifer conditions but confined aquifer conditions exist as well. The aquifer is expected to be unconfined at the proposed diversion points based on well completion reports for nearby wells and the lithologic logs on file for nearby observation wells, but could be locally confined (SDGS, 2025; Water Rights, 2025b and 2025d). Drawdown created by pumping a well generally does not extend far from the pumped well in an unconfined aquifer; however, in a confined aquifer, drawdown from pumping could extend a distance from the diversion point. The exact drawdown behavior of a well cannot be known without an aquifer performance test.

Observation well MP-80D (approximately 7.6 miles southwest of proposed diversion points) has nine high-yield (assumed to be a licensed/permitted withdrawal with an authorized diversion rate greater than 0.2 cfs) irrigation appropriations authorized from the Spring Creek: McPherson aquifer within approximately two miles of it (Water Rights, 2025b and 2025c). The drawdown from pumping can be seen on the hydrograph for MP-80D, along with the aquifer returning to pre-pumping conditions between irrigation seasons (Figure 3) (Water Rights, 2025b). The lithologic log on file for MP-80D noted the well was drilled 70 feet deep and the top of aquifer is

50 feet below the ground surface (SDGS, 2025; Water Rights, 2025b). The lowest recorded static water level on the hydrograph is approximately 27 feet, which indicates there was still approximately 23 feet of artesian head pressure in MP-80D even during a drier period when high-yield irrigation wells are expected to be pumping more water and when water levels are generally naturally lower in response to drier conditions (Water Rights, 2025b).

In McPherson County, the Spring Creek: McPherson aquifer has an average thickness of approximately 30 feet (Hamilton, 1982). Within five miles of the proposed diversion points, the Spring Creek: McPherson aquifer has a saturated aquifer thickness of approximately 5 to 35 feet (Water Rights, 2025d). A saturated aquifer thickness of five feet would not allow for enough thickness for a pump to be placed 20 feet below the top of the aquifer. Therefore, to be considered an adequate well at that location, the inlet of the pump would need to be placed as near as practical to the bottom of the saturated aquifer to qualify as an adequate well under ARSD 74:02:04:20(6). While the best information available indicates that there is a reasonable probability average annual recharge exceeds average annual withdrawals in the aquifer, conditions can occur where withdrawals in the aquifer exceed recharge for a period of time. Situations may occur where pumping from a thicker part of an unconfined aquifer could cause drawdown impacting adequate wells in a thinner part of the aquifer. Under such conditions an unlawful impairment of senior water rights/permits or adequate domestic wells may occur. Therefore, the applicant should control their water withdrawals, so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights. In McPherson County, there has been one complaint filed with the DANR-Water Rights Program regarding well interference in a glacial aquifer identified as the Hillview Aquifer; however, after an investigation, the complaint was determined to be unsubstantiated (Water Rights, 2025e).

When considering the average saturated thickness of the Spring Creek: McPherson aquifer in McPherson County, the generally unconfined nature of the aquifer, and the lack of well interference complaints for adequate wells completed into the aquifer, any drawdown created from the proposed diversion is not expected to cause an unlawful impairment to 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 to existing users with adequate wells.

CONCLUSIONS:

1. Water Permit Application No. 8913-3 proposes to appropriate 2.2 cfs from up to four wells to be completed into the McPherson management unit of the Spring Creek aquifer (approximately 40 feet deep) for the irrigation of 157 acres. The site is located in McPherson County approximately 3.5 miles west of Long Lake, South Dakota
2. The applicant holds Water Permit No. 8052-3 authorizing a diversion of 2.2 cfs from up to four wells to be completed into the Spring Creek: McPherson aquifer in the same location proposed by this application, with the system related to this permit not yet constructed at this time. The construction period for Water Permit No. 8052-3 has passed the authorized time frame and the permit is subject to cancellation.

3. Based on the hydrologic budget and observation well data, there is a reasonable probability that unappropriated water is available from the Spring Creek: McPherson aquifer to supply the proposed appropriation.
4. There is a reasonable probability that the proposed diversion by Water Permit Application No. 8913-3 will not unlawfully impair adequate wells for existing water right/permit holders and domestic users.

Nakaila Steen

Nakaila Steen
Natural Resources Engineer II
SD DANR - Water Rights Program

Reviewed by:

Adam Mathiowetz

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

References

- Fahrenbach, M.D., Steece, F.V., Sawyer, J.F., McCormick, K.A., McGillivray, G.L., Schulz, L.D., and Redden, J.A. 2010. South Dakota Stratigraphic Correlation Chart. Oil and Gas Investigations 3. SD DANR-Geological Survey, Vermillion, SD.
- Hamilton, L.J., 1974. Major Aquifers in McPherson, Edmunds, and Faulk Counties, South Dakota: SD Geological Survey Information Pamphlet No. 8, 12 p.
- Hamilton, L.J., 1982, Major Aquifers in McPherson, Edmunds, and Faulk Counties, South Dakota, Part II: Water Resources: SD Geological Survey Bulletin 26, 60 p.
- Hedges, L.S., Burch, S.L., Iles, D.L., Barari, R.A., Schoon, R.A., 1982. Evaluation of Ground- Water Resources Eastern South Dakota and Upper Big Sioux River, South Dakota and Iowa, Task I: Bedrock Topography and Distribution, Task 2: Extent of Aquifers, Task 3: Ground-Water Storage, Task 4: Computerized Data Base, Final Report; U.S. Army Corps of Engineers Contract DACW 45-80-C-0185.
- Hedges, L.S., Allen, J., Holly, D.E., 1985. Evaluation of Ground-Water Resources Eastern South Dakota and Upper Big Sioux River, South Dakota and Iowa, Task 7: Ground Water Recharge; United States Army Corps of Engineers Contract DACW 45-80-C-0185
- SDGS, 2025. South Dakota Geological Survey Lithologic Logs Database. Accessed January 6, 2025. <http://cf.sddanr.net/lithdb/>.

Water Rights, 1995. Findings of Fact, Conclusions of Law, and Final Decision in the Matter of Water Permit Application No. 2313-2, Coca-Cola Bottling Company of the Black Hills. DANR-Water Rights Program file for Water Right No. 2313-2. Pierre, SD.

Water Rights, 2025a. "1979-2023 Irrigation Summaries by Aquifer", SD DANR-Water Rights Program, Joe Foss Building, Pierre, SD.

Water Rights, 2025b. Observation Well Data, SD DANR-Water Rights Program, Joe Foss Bldg, Pierre, SD.

Water Rights, 2025c. Water Right/Permit Files, SD DANR-Water Rights Program, Joe Foss Bldg, Pierre, SD.

Water Rights, 2025d. Well Completion Reports, SD DANR-Water Rights Program, Joe Foss Bldg, Pierre, SD.

Water Rights, 2025e. 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.**

January 29, 2025

Dennis Wolff
34365 104th Street
Long Lake SD 57457

Dear Mr. Wolff:

Water Permit Application No. 8913-3 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 Northwest Blade printed in Eureka (Ph # 605 284-2631) and the American News printed in Aberdeen (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. 8913-3 to Appropriate Water

Notice is given that Dennis Wolff, 34365 104th Street, Long Lake SD 57457, has filed an application for a water permit to appropriate 2.2 cubic feet of water per second from up to four wells to be completed into the McPherson Management Unit of the Spring Creek Aquifer (approximately 40 feet deep) located in the SE 1/4 NW 1/4 Section 3 for irrigation of 157 acres located in the NW 1/4 Section 3; all in T127N-R70W. This site is located approximately three and one-half miles west of Long Lake SD.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 8913-3 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 February 18, 2025.

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 February 18, 2025.

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_

Rodriguez, Rachel

From: Gannett Legals Public Notices 4 <ganlegpubnotices4@gannett.com>
Sent: Wednesday, January 29, 2025 12:10 PM
To: Rodriguez, Rachel
Cc: drwolff@valleytel.net
Subject: [EXT] 10989201 RE: 8913-3 Dennis Wolff - Public Notice
Attachments: Order_Confirmation_Liners - 2025-01-29T130932.190.pdf

Hello!

Please find your order confirmation and proof of ad attached.

Your notice is set to run in the Aberdeen American on 2/6. The order cost is \$49.95 which includes an affidavit that will be sent 7-10 business days after the last day of the notice printing. Please email before 8am on Tuesday with any changes.

Prepayment is not required (you can be billed), if you choose to prepay please call the number below my signature before 8am on Tuesday and reference order # 10989201. Anyone who answers can help you.

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 before the deadline above requesting changes or to cancel.

Thank you!
Kerri Furnace
Public Notice Representative



Office: 844-254-5287

*NOTE: We are not legally trained, and it is your responsibility to make sure your ad meets the requirements of your State/Court which includes wording and publication times. Please verify all information is there and that it is correct. If your ad is not compliant with applicable law and needs to be re-published you will be responsible for all additional fees incurred.

From: Rodriguez, Rachel <Rachel.Rodriguez@state.sd.us>
Sent: Wednesday, January 29, 2025 12:23 PM
To: SD-Aberdeen Legals <aan-legals@aberdeennews.com>
Subject: 8913-3 Dennis Wolff - Public Notice

Attached is a notice to be published on February 6, 2025.

Dennis Wolff, 34365 104th Street, Long Lake SD 57457, 605-577-6620, drwolff@valleytel.net 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: Wednesday, January 29, 2025 11:21 AM
To: nwblade@valleytel.net
Subject: 8913-3 Dennis Wolff - Public Notice
Attachments: 8913-3 public.short_final.docx; FORM8.FRM.doc

Attached is a notice to be published on February 6, 2025.

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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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Thank you,

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



LOCALiQ

Aberdeen News
Watertown Public Opinion

PO Box 630567 Cincinnati, OH 45263-0567

AFFIDAVIT OF PUBLICATION

Wolff Dennis
Wolff Dennis
34365 104th St
LONG LAKE SD 57457

STATE OF SOUTH DAKOTA, COUNTY OF BROWN

The AMERICAN NEWS is a daily newspaper of general circulation, printed and published in Aberdeen, Brown County, South Dakota, and has been such a newspaper during the times hereinafter mentioned; and personal knowledge of the facts herein state that the notice hereto annexed was Published in said newspapers in the issue dated:

02/06/2025

That said newspaper is a legal newspaper published five days or more each week; with a bona fide circulation of more than two hundred copies daily; published in the English language within the said county of Brown for more than one year prior to the first publication of said notice; and printed in whole in an office maintained at the place of publication of said newspaper.
Sworn to and subscribed before on 02/06/2025

Legal Clerk

Notary, State of WI, County of Brown

My commission expires

Publication Cost:	\$49.95	
Tax Amount:	\$0.00	
Payment Cost:	\$49.95	
Order No:	10989201	# of Copies:
Customer No:	556268	1
PO #:		

THIS IS NOT AN INVOICE!

Please do not use this form for payment remittance

MARIAH VERHAGEN
Notary Public
State of Wisconsin

NOTICE OF
APPLICATION NO. 8913-3
to Appropriate Water

Notice is given that Dennis Wolff, 34365 104th Street, Long Lake SD 57457, has filed an application for a water permit to appropriate 2.2 cubic feet of water per second from up to four wells to be completed into the McPherson Management Unit of the Spring Creek Aquifer (approximately 40 feet deep) located in the SE 1/4 NW 1/4 Section 3 for irrigation of 157 acres located in the NW 1/4 Section 3; all in T127N-R70W. This site is located approximately three and one-half miles west of Long Lake SD.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 8913-3 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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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.

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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 on Feb. 6, 2025 at the total approximate cost of \$49.95 and may be viewed free of charge at www.sdpublicnotices.com

AFFIDAVIT OF PUBLICATION

The Northwest Blade
P.O. Box 797; Eureka, SD 57437
605-284-2631

RECEIVED

FEB 10 2025

OFFICE OF
WATER

STATE OF South Dakota: COUNTY OF McPherson

I, KAITLIN HUBER, am authorized by the publisher as agent to make this affidavit of publication. Under oath, I state that the following is true and correct.

The Northwest Blade is a newspaper which is published weekly and is of general circulation and is in compliance with South Dakota Newspaper Association legalized Statutes.

The notice has been published in the newspaper listed above.

DATE(S) OF PUBLICATION

02/06/2025 – Notice of Application No. 8913-3 to Appropriate Water

NAME OF THE CORPORATION/GOVERNMENT OFFICE: Water Rights Program

TYPE OF DOCUMENT: Legal

AUTHORIZED SIGNATURE: Kaitlin Huber

SUBSCRIBED AND SWORN TO BEFORE ME ON THE

6th DAY OF February, 2025.

NOTARY SIGNATURE: Heather Vetch
COMMISSION EXPIRES: 2-28-30



**NOTICE OF APPLI-
CATION NO. 8913-3 to
Appropriate Water**

Notice is given that Dennis Wolff, 34365 104th Street, Long Lake SD 57457, has filed an application for a water permit to appropriate 2.2 cubic feet of water per second from up to four wells to be completed into the McPherson Management Unit of the Spring Creek Aquifer (approximately 40 feet deep) located in the SE 1/4 NW 1/4 Section 3 for irrigation of 157 acres located in the NW 1/4 Section 3; all in T127N-R70W. This site is located approximately three and one-half miles west of Long Lake SD.

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Any person interested in opposing this application or rec-

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Published once at an approximate cost of \$40.21 at 2 cents per reader and can be viewed free of charge at www.sdpublicnotices.com.

Rodriguez, Rachel

From: Rodriguez, Rachel
Sent: Wednesday, January 29, 2025 12:27 PM
To: 'drwolff@valleytel.net'
Subject: 8913-3 Dennis Wolff - Public Notice
Attachments: 8913-3 Rec.pdf; 8913-3 Ltr.pdf; 8913-3 PubNotice.pdf; American News.pdf

Good afternoon,

Attached is a copy of the report, chief engineer's recommendation, and information regarding the public notice for your water permit application. As stated in the letter, please contact the paper(s) as soon as possible to authorize publication and arrange for payment. This information is also being mailed to you today.

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





**DEPARTMENT of AGRICULTURE
and NATURAL RESOURCES**

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

FEB 28 2025

Dennis Wolff
34365 104th Street
Long Lake SD 57457

Dear Mr. Wolff:

Enclosed is Water Permit No. 8913-3 authorizing construction of the water diversion system and beneficial use of the water, not exceeding the limits as specified in the Water Permit.

Form 10, *Notice of Completion of Works and Application of Water to Beneficial Use*, is enclosed. Please return this completed form after you have finished the system and have put the water to beneficial use. An investigation can then be scheduled so the water license may be issued, thus completing the acquisition of a water right.

An informational sheet *Common Water Right Questions* is also enclosed. This sheet is intended to answer some of the questions associated with obtaining and keeping a water right.

Sincerely,

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

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.: 8913-3

Name of Applicant: Dennis Wolff

Date of Posting: 2/10/2025

Date of Removal: 2/28/2025



Ron Duvall, Engineer III

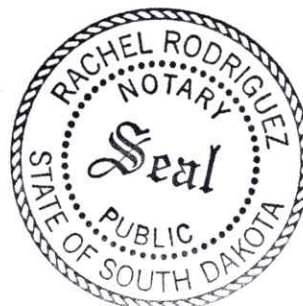
2/28/2025

Date

Subscribed and sworn to before me, a notary public, this 28th day of Feb, 2025.



Rachel Rodriguez
My Commission Expires
May 16, 2029
Notary Public - South Dakota
My commission expires:



(SEAL)