

WATER PERMIT NO. 2901-2

Name of Applicant: **SD Department of the Military**

Address: **2823 W Main Street, Bldg. 420 JFHQ, Rapid City SD 57702**

Phone: **605-737-6830**

Amount of Water Claimed: **0.223 cfs**

Total Acres: **12**

Source of Water Supply: **Groundwater**

Water to be used for: **Irrigation**

County: **Pennington**

Type of Waste Disposal System:

Location: **In the northwest area of Rapid City**

PRIORITY

Date Received: **11-19-25**

Application/License Fee: **\$700.00**

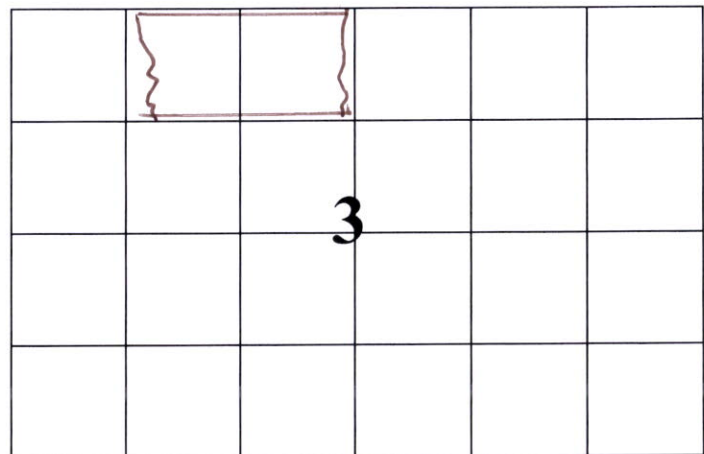
Corrected Application Received: **11-21-25**

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

Remarks: **Amending WR 1953-2 to expand period of use (4/1 – 10/31) and irrigate 12 additional acres.**

Diversion Point: **NE 1/4 NW 1/4 Sec 3-T1N-R7E**

Land to be Irrigated: **N 1/2 NW 1/4 Section 3-T1N-R7E**



Depth of Well: **565**

Well Driller:

Remarks:

Type of Map: **aerial**

Reviewed and the Number Assigned on: **12-01-25**

By: **Rachel Rodriguez**

Notice of Hearing - date to intervene: _____

**SOUTH DAKOTA
WATER PERMIT NO. 2901-2**

Date of first receipt of application November 19, 2025.

Date of return to applicant for corrections, amendments or changes November 19, 2025.

Date of receipt of corrected application November 21, 2025.

The Acting Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 2901-2 to SD Department of the Military, 2823 W Main Street, Bldg. 420 JFHQ, Rapid City SD 57702, 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. 2901-2 authorizes appropriation of an additional 0.223 cubic feet of water per second (cfs) from the well authorized by Water Right No. 1953-2 to irrigate an additional 12 acres located in the N 1/2 NW 1/4 Section 3-T1N-R7E, in addition to what is already authorized by Water Right No. 1953-2. Water Right No. 1953-2 authorizes diversion of 0.17 cfs from one well completed into the Minnelusa Aquifer (565 feet deep) located in the NE 1/4 NW 1/4 Section 3 for irrigation of 13 acres located in the N 1/2 NW 1/4 Section 3; all in T1N-R7E. This Permit also amends Water Right No. 1953-2 to expand the period of use from April 1 through October 31. This Permit, combined with Water Right No. 1953-2, authorizes a total of 0.39 cfs for the irrigation of 25 acres, from April 1 through October 31, annually. This site is located in the northwest area of Rapid City SD.
2. The water appropriated shall be used for the purpose of irrigation use and may not exceed the amount of water needed for beneficial use.
3. The water is to be used during the following described annual period: April 1 – October 31.
4. The date of approval of Permit No. 2901-2 is March 2, 2026.
5. The date from which applicant may claim right is November 19, 2025.
6. One-fifth of the construction is to be completed on or before September 2, 2028.
7. All construction is to be completed on or before March 2, 2031.
8. Water is to be put to beneficial use on or before March 2, 2035.
9. 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 well approved under Water Permit No. 2901-2 is 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 well approved under this Permit must be valved and the flow reduced to the amount needed or to a minimum when not being used. If this well is abandoned, the well must be plugged in accordance with Water Management Board Rules, Chapter 74:02:04.
3. This Permit is approved subject to the irrigation water use questionnaire being submitted each year.

WATER MANAGEMENT BOARD

By: Adam Mathiowetz
Adam Mathiowetz, PE
Acting Chief Engineer
Water Right Program
Department of Agriculture and Natural Resources

MAY 04 2026

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>2901-2</u> Hydrologic Unit <u>10120110</u>
	Basin <u>Cheyenne</u>
	Newspaper <u>Rapid City Journal</u>
	(office use only)

RECEIVED

NOV 19 2025

Water Rights
Program

Application for Permit to Appropriate Water for Irrigation

Type of Application: ☒ New ☐ Vested Right ☒ Amendment/Correction to Permit No. 1953-2
(Use predates Mar 2, 1955)

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

amend WR No. 1953-2 to expand the annual period of use 04/01 - 10/31

1. Name to Appear on Irrigation Permit SD Department of the Military

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

Mailing Address 2823 W Main St, Bldg 420 JFHQ Rapid City SD 57702
(Address) (City) (State) (Zip Code)

Phone 605.737.6830 Mobile 605.737.6637 Email alden.j.morgan.nfg@army.mil

2. Amount of water claimed 0.223 *CFS or 100 **GPM <1 ***AF Total Acreage 12
(*Cubic Feet per Second) (**Gallons per Minute) (***)Acre Feet - storage capacity of dam/dugout or annual use if applicable)

3. Source of water supply 1 existing well authorized by WR No. 1953-2 (N 1/2 NW 1/4)

4. Location of point of diversion NE 1/4 NW 1/4 Sec 3-T1N-R7E

(example - 3 wells in SW 1/4 NE 1/4 section 12-T104N-R33W)

County Pennington

5. County or counties where water will be used Pennington

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
<u>N 1/2 NW 1/4 Sec 3-T1N-R7E</u>	<u>12</u>		

8. Give a description of the project. (Attach sheet if more space is needed)

Applicant requests to amend 1953-2 to allow for irrigation April 1 - Oct 31. Applicant also requests new permit to increase pump rate & irrigated acres. This application, combined with WR No. 1953-2, would authorize a total of 175 gpm for irrigation of 25 acres, all from the same well.

I, Dana Limbo CFMO - COL, 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)

RECEIVED

NOV 19 2025

Water Rights
Program

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 1 Provide copy of log(s), if available. Drilled by see 1953-2

For either existing or proposed wells:

- c) Well Depth (required) 565 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 _____

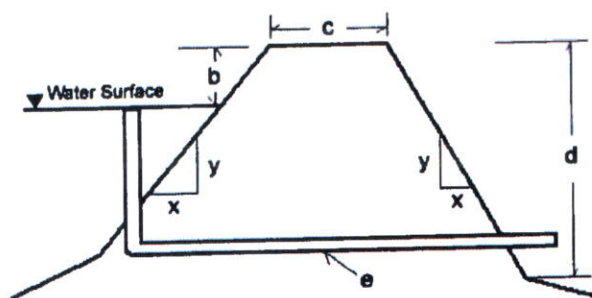
If pipe, diameter _____

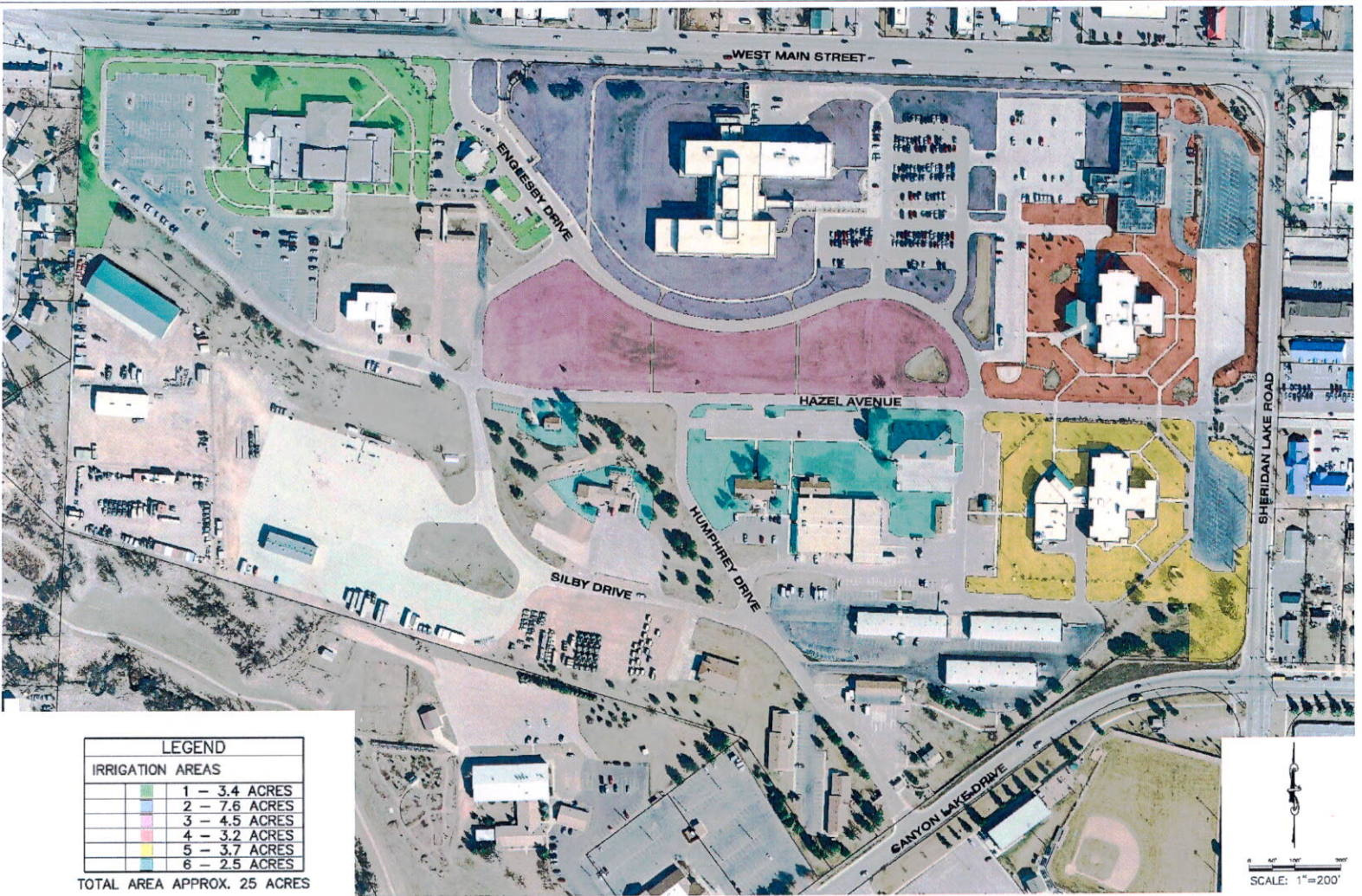
- f) Secondary Spillway Capacity _____
Spillway Width _____
- g) X & Y Slope (e.g. 3 to 1 is a typical slope)
Upstream _____
Downstream _____

h) Area of Impoundment _____

i) Storage _____ Acre Feet

j) Drainage Area Above Dam _____ Acres







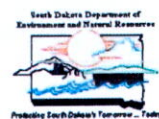


**Water Right #1953-2
Department of the Military
4/12/2017**



Steven Quissell

Steven Quissell
Water Rights Inspector
DENR Water Rights Program

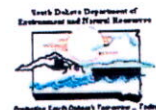


Water Right #1953-2
Department of the Military
4/12/2017



Steven Quissell

Steven Quissell
Water Rights Inspector
DENR Water Rights Program



CR
11/21/25

State of South Dakota
VOUCHER

APPL. AREA 30
DATE 11/21/2025
DOCUMENT ID N0361143
FROM: DANR

APPROVAL NUMBER _____
APPROVAL DATE _____
DATA TYPE _____
Dept. of Military

LINE	COMP	ACCOUNT	CENTER	Debit AMOUNT	Credit AMOUNT
1	3050	4299802	0370000800		\$ 500.00
2	3050	4299803	0370000800		\$ 200.00
3				\$ 700.00	
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14	Document is on HOLD. Please ADD your line of Coding and END.				
15					

TOTAL	DR	\$ 700.00
TOTAL	CR	\$ 700.00
VOUCHER TOTAL		1,400.00

DESCRIPTION OF SERVICE, PRODUCT OR TRANSFER

Water Rights Application and Inspection Fee

I declare and affirm under the penalties of perjury that this claim has been examined by me and to the best of my knowledge and belief, is in all things true and correct.

Claimant _____ Date _____ Authorization Lacey S. Keiser Date 11/21/2025

DATE: NOVEMBER 19, 2025
INVOICE

Make all checks payable to DANR/Water Rights

**DEPARTMENT of AGRICULTURE
and NATURAL RESOURCES**

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



**RECOMMENDATION OF ACTING CHIEF ENGINEER FOR WATER PERMIT
APPLICATION NO. 2901-2, SD Department of the Military**

Pursuant to SDCL 46-2A-2, the following is the recommendation of the Acting Chief Engineer, Water Rights Program, Department of Agriculture and Natural Resources concerning Water Permit Application No. 2901-2, SD Department of the Military, 2823 W Main Street, Bldg 420 JFHQ, Rapid City SD 57702.

The Acting Chief Engineer is recommending APPROVAL of Application No. 2901-2 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 well approved under Water Permit No. 2901-2 is 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 well approved under this Permit must be valved and the flow reduced to the amount needed or to a minimum when not being used. If this well is abandoned, the well must be plugged in accordance with Water Management Board Rules, Chapter 74:02:04.
3. This Permit is approved subject to the irrigation water use questionnaire being submitted each year.

See report on application for additional information.

Adam Mathiowetz, PE
Acting Chief Engineer
February 09, 2026

Report to the Chief Engineer
On Water Permit Application No. 2901-2
SD Department of Military
February 09, 2026

Water Permit Application No. 2901-2 proposes to increase the maximum instantaneous diversion rate from a well authorized by Water Right No. 1953-2 by 0.223 cubic feet per second (cfs) from a well authorized by Water Right No. 1953-2 and irrigate 12 additional acres located in the N $\frac{1}{2}$ NW $\frac{1}{4}$ of Section 3-T1N-R7E. Water Right No. 1953-2 authorizes diversion of 0.17 cfs from one well completed into the Minnelusa aquifer (565 feet deep) located in the NE $\frac{1}{4}$ NW $\frac{1}{4}$ of Section 3 for the irrigation of 13 acres located in the N $\frac{1}{2}$ NW $\frac{1}{4}$ of Section 3; all in T1N-R7E. Water Permit Application No. 2901-2 also proposes to amend Water Right No. 1953-2 to expand the period of use from April 1 through October 31. If approved, Water Permit Application No. 2901-2 and Water Right No. 1953-2 authorizes a total of 0.39 cfs for the irrigation of 25 acres from April 1 through October 31 annually. The site of interest is located in Pennington County in northwest area of Rapid City, SD.

AQUIFER: Minnelusa (MNLS)

HYDROGEOLOGY:

The Lower Permian and Upper Pennsylvanian aged, Minnelusa Formation consists mainly of yellow to red cross-stratified sandstone, limestone, dolomite, and shale (Strobel and others, 1999). There are three general units: an upper unit consisting of red to white sandstone (up to approximately 200 feet thick), the middle unit consisting of dolomite, sandstone, and shale with anhydrite in subsurface (approximately 200 to 300 feet thick), and lower unit consisting of sandstones and dolomites with basal red shale (approximately 0 to 300 feet thick) (Rahn and Gries, 1973). The upper part of the Minnelusa Formation may also contain anhydrite which has generally been eradicated as a result of a change in depositional environment and dissolution where the formation outcrops (Carter and others, 2001b). The dissolution of the anhydrite has resulted in collapse features that have been filled with breccia (Carter and others, 2001b; Driscoll and others, 2002). The thickness of the Minnelusa Formation in the Black Hills within South Dakota ranges from approximately 375 feet thick near Belle Fourche to approximately 1,175 feet near Edgemont (Carter and others, 2001b; Driscoll and others, 2002).

The Minnelusa aquifer generally occurs within the upper sandstone units of the Minnelusa Formation (Kyllonen and Peter, 1987). The Minnelusa Formation is disconformably overlain by the Opeche Shale, which is overlain by the Minnekahta Limestone (Permian-aged) (Carter and others, 2001b). The Opeche Shale acts as a confining layer that restricts the flow of water between the Minnelusa and Minnekahta aquifers (Strobel and others, 1999). The Minnelusa Formation is unconformably overlying the Madison (Pahasapa) Limestone (Long and Putnam, 2009). The lower unit of the Minnelusa Formation acts as a confining layer between the Minnelusa and Madison aquifers as a result of the low permeability of the unit; however,

weathering and brecciation may have increased the permeability in outcrop areas of the lower unit of the Minnelusa Formation (Kyllonen and Peter, 1987; Long and Putnam, 2009).

In western South Dakota, the Minnelusa Formation is estimated to underlie approximately 23,114,880 acres, and the Minnelusa aquifer is estimated to contain approximately 755,555,520 acre-feet of recoverable water in storage (Allen and others, 1985). In Pennington County, the Minnelusa Formation is estimated to underlie approximately 1,371,520 acres, and the Minnelusa aquifer is estimated to contain approximately 51,432,000 acre-feet of recoverable water in storage (Allen and others, 1985). It should be noted that the amount of recoverable water within the Minnelusa aquifer may vary from one location to another as a result of the specific aquifer characteristics and overall areal extent of the aquifer.

The Minnelusa Formation outcrops in the Black Hills (shown in Figure 1) but is otherwise buried in South Dakota (Strobel and others, 1999). The Minnelusa aquifer can exist under both confined and unconfined aquifer conditions (Long and Putnam, 2009; Water Rights, 2026b and 2026d). The Minnelusa aquifer is generally unconfined where the formation outcrops in the Black Hills and generally confined throughout the rest of South Dakota where the formation dips to the east causing the hydraulic head to be above the top of the formation (Long and Putnam, 2009; Water Rights, 2026b and 2026d). The direction of groundwater movement in the Minnelusa aquifer is generally radially outward from the outcrop in the Black Hills (Carter and others, 2001b).

No water well or test hole completion report was submitted with Water Permit Application No. 2901-2 or is on file with the DANR-Water Rights Program. Water well completion reports on file with the DANR-Water Rights Program for wells completed into the Minnelusa aquifer within approximately one mile of the existing well site have saturated aquifer thicknesses ranging from approximately 20 to 180 feet, with the depth to the top of aquifer materials ranging from approximately 180 to 720 feet below the ground surface, and static water levels at well completion varying from flowing to 110 feet below the ground surface (Water Rights, 2026d). The Minnelusa aquifer is expected to be confined at the existing well site based on the well completion reports on file for nearby wells completed into the aquifer and the lithologic logs on file for nearby observation wells (SDGS, 2026; Water Rights, 2026b, 2026c and 2026d). In 2017, Water Rights staff completed a licensing investigation of the existing well proposed to be used by this application. The static water level in the well was free flowing with 40 feet of static pressure above the ground surface, measured from a pump test completed in 2013 (Water Rights, 2026c).

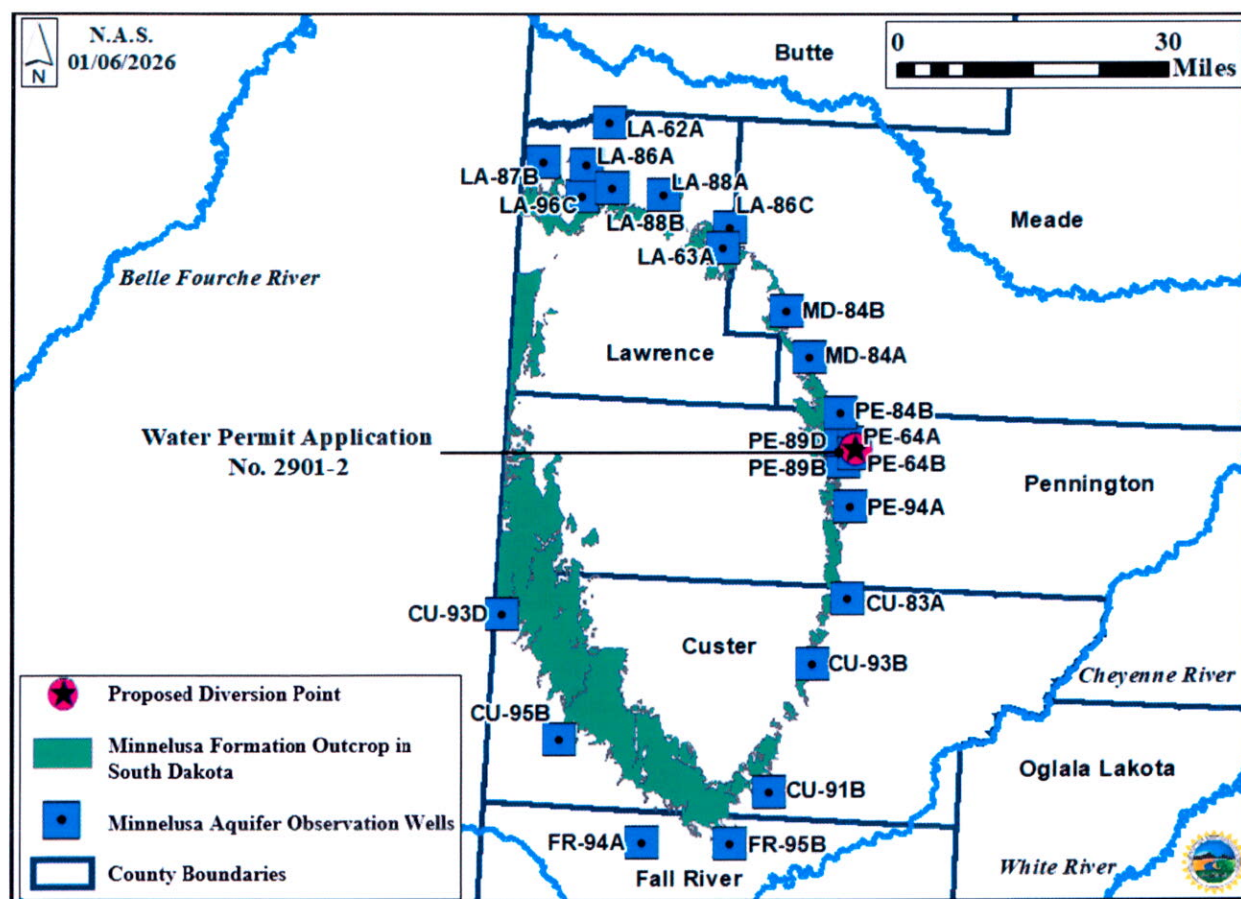


Figure 1. Minnelusa Formation outcrop in the Black Hills in South Dakota (Strobel and others, 1999), the Minnelusa aquifer observation wells in the Black Hills (Water Rights, 2026b), and the existing well proposed to be used by Water Permit Application No. 2901-2

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 Minnelusa aquifer.

WATER AVAILABILITY:

Water Permit Application No. 2901-2 proposes to appropriate water from the Minnelusa 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 Minnelusa aquifer is older than and stratigraphically lower than the Greenhorn Formation (Fahrenbach et al., 2010); however, 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 Minnelusa aquifer must be considered.

HYDROLOGIC BUDGET:

Statewide Recharge

Recharge to the Minnelusa aquifer is primarily through streamflow losses and the infiltration of precipitation where the formation outcrops (Carter and Driscoll, 2001a; Driscoll and others, 2002; Medler and others, 2025). Driscoll and others (2002) noted that the Madison aquifer receives more recharge than the Minnelusa aquifer as a result of the Madison outcrop having an upslope location to the Minnelusa outcrop within the Black Hills in South Dakota. Carter and others (2001a) analyzed streamflow and precipitation data from 1931 to 1998 within the Black Hills of South Dakota and Wyoming to determine the average annual recharge to the Madison and Minnelusa aquifers. The average annual recharge rate to the Madison and Minnelusa aquifers from streamflow contributions was estimated to be approximately 93 cfs, or 67,500 acre-feet per year; plus 251 cfs, or 181,760 acre-feet per year from precipitation falling on the outcrops in the Black Hills, for a combined estimated average annual recharge rate of 344 cfs, or 249,260 acre-feet per year. Carter and others (2001a) determined that of the combined estimated average annual recharge rate, approximately 55% of the total recharge goes to the Madison aquifer, and the remaining 45% recharges to the Minnelusa aquifer. Therefore, the average annual recharge rate to the Minnelusa aquifer is approximately 112,167 acre-feet per year, as estimated by Carter and others (2001a).

Medler and others (2025) updated the Carter and others (2001a) publication using streamflow and precipitation data from 1931 to 2022 for the same study area mentioned above. The total estimated precipitation recharge to the Minnelusa aquifer in South Dakota (excluding streamflow contributions) is approximately 98,061 acre-feet per year.

Medler and others (2025) elected to keep estimates of streamflow recharge to the Madison and Minnelusa aquifers together rather than as recharge to two separate aquifers. In South Dakota, the two aquifers are administrated as separate entities for water permitting (Water Rights, 2026c). Therefore, the estimate of streamflow recharge to those aquifers must be divided. Drennon (2026) completed a supporting memo on using the Medler and others (2025) publication to divide the streamflow recharge by multiplying the streamflow recharge estimated by Medler and others (2025) by the proportion of streamflow recharge to each aquifer estimated by Hortness and Driscoll (1998). Where data from Hortness and Driscoll (1998) was not available, Drennon (2026) assumed that 70% of the streamflow recharge went to the Madison aquifer (Carter and others, 2001a).

Collectively (from precipitation and streamflow contributions), the estimated average annual recharge rate to the Minnelusa aquifer is 126,000 acre-feet per year (Drennon, 2026 and Medler and others, 2025). Recharge to the Minnelusa aquifer is likely to range between 112,167 to 126,000 acre-feet per year.

Medler and others (2025) study included additional data collected over a longer time period (1931 to 2022) than the time period in the original study completed by Carter and others (2001a) (1931 to 1998). Collection of additional data, coupled with modeling methodologies, resulted in different estimated recharge rates. The difference between these two estimated recharge rates is well within what can be attributed to statistical uncertainty, combined with the recharge estimation methods used by both studies. Any recharge rate is an estimate which strongly supports the value and need to rely on the observation well data. This is especially important as the estimated average annual withdrawals approach the lower end of the estimated average annual recharge range.

Statewide Discharge

Discharge from the Minnelusa aquifer is primarily through well withdrawals (Water Rights, 2026d) and flow to headwater and artesian springs (Carter and Driscoll, 2001a).

Currently, there are 195 water rights/permits authorized to withdraw water from the entirety of the Minnelusa aquifer in South Dakota, plus one pending application - Water Permit Application No. 2047-1 requesting to appropriate up to 1,600 acre-feet of water for fish and wildlife propagation (Water Rights, 2026c). Additionally, there is one future use permit reserving water from the Minnelusa aquifer – Future Use Permit No. 439-2 (Water Rights, 2026c). Future Use Permit No. 439-2 is held by the City of Rapid City and authorizes the reservation of groundwater, water from infiltration galleries on springs, and the Madison and Minnelusa aquifer wells used by the city for municipal use (Water Rights, 2026c). For the purpose of estimating the average annual withdrawal rate from the Minnelusa aquifer, Future Use Permit No. 439-2 is assumed to be fully developable from the Minnelusa aquifer for a total of 3,367 acre-feet per year (Water Rights, 2026c).

Of the 196 Minnelusa aquifer water rights/permits (including one pending application), 49 are for irrigation use and 147 are for non-irrigation use (includes pending Water Permit Application No. 2047-1) (Water Rights, 2026c). Table 1 summarizes the 147 non-irrigation water rights/permits authorized to appropriate water from the Minnelusa aquifer including one pending application with the estimated annual use for each water right/permit/application as determined by their authorized maximum diversion rate or annual volume. The use type determined for each water right/permit was based on the primary use categorized for each water right/permit as some permits have multiple use types (Water Rights, 2026c). 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 authorized maximum 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, 2026c).

No water rights/permits that are authorized to withdraw from the Minnelusa aquifer were identified as being connected to a rural water system (Drinking Water Program, 2026; Water Rights, 2026c). Overall, the estimated average annual withdrawal rate from the Minnelusa aquifer by the non-irrigation water rights/permits is approximately 14,597 acre-feet per year (including one pending application) (Table 1) (Water Rights, 2026c).

Table 1. Summary of the non-irrigation water rights/permits authorized to appropriate from the Minnelusa aquifer with estimated annual use determined by their respective authorized diversion rate or annual volume (Water Rights, 2026c)

Use Type	No. of Water Rights/Permits	Authorized Annual Volume (acre-feet/year)	Authorized Diversion Rate (cfs)	Total Estimated Use (acre-feet/year)
RWS	2	N/A	0.597	259
SHD	46	6.75	7.14	3,112
REC	1	18.4	N/A	18.4
COM	55	114	4.03	1,866
DOM	8	N/A	0.981	426
FWP	2*	1,600	1.6	2,295
WDS	3	42.8	N/A	42.8
INS	10	N/A	0.828	360
IND	11	52	7.17	3,170
MUN	9	N/A	7.01	3,047
TOTAL:	147	1,834	29.37	14,597
*includes one pending application				
RWS: Rural Water System, SHD: Suburban Housing Development, REC: Recreation,				
COM: Commercial, DOM: Domestic, FWP: Fish & Wildlife Propagation				
INS: Institutional, IND: Industrial, MUN: Municipal, WDS: Water Distribution System				

Water Permit No. 2773-2 and Water Right No. 1709-1 are both authorized to withdraw from the Madison and Minnelusa aquifers (Water Rights, 2026c). Water Permit No. 2773-2 has not been fully developed at this time; however, the well is only authorized to be constructed into a single water source. Whereas Water Right No. 1709-1 is authorized to withdraw from both sources. For the purpose of estimating the average annual withdrawal rate from the Minnelusa aquifer, the well authorized to be constructed by Water Permit No. 2773-2 will be assumed to be completed into the Minnelusa aquifer. Water Permit No. 2773-2 is authorized to irrigate 100 acres (Water Rights, 2026c), and assuming an application rate of two feet per authorized acre per year, the average annual withdrawal rate for Water Permit No. 2773-2 is estimated to be approximately 200 acre-feet per year. Water Right No. 1709-1 authorizes the maximum instantaneous rate of approximately 0.333 from three wells – approximately 0.083 cfs from one well completed into the Madison aquifer and approximately 0.25 cfs from two wells completed into the Minnelusa

aquifer (Water Rights, 2026c). Assuming the permit holder pumps 60% of full time at their respective authorized maximum diversion rate from the two wells completed into the Minnelusa aquifer, the average annual withdrawal rate for Water Right No. 1709-1 is estimated to be approximately 109 acre-feet per year.

Currently, there are 49 irrigation water rights/permits authorized to appropriate water from the Minnelusa aquifer (Water Rights, 2026c). 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 Minnelusa aquifer irrigation water rights/permits that have reported over the period of record (1982 to 2024) is approximately 2,261 acre-feet per year (Water Rights, 2026a).

For comparison purposes, the average annual withdrawal rate for the 49 water rights/permits authorized for irrigation use from the Minnelusa aquifer was estimated utilizing the following method: for the water rights/permits with greater than ten years of irrigation reports available, the average reported irrigation over the respective period of record was used to estimate withdrawals; for the water rights/permits with less than ten years of irrigation reports available, withdrawals were assumed to equal two acre-feet per authorized acre - although, actual usage is likely less for non-turf irrigation (Water Rights, 2026a and 2026c). Non-irrigation withdrawals from permit holders with irrigation also as a permitted use were assumed to withdraw at their maximum instantaneous diversion rate 60% of the time, and the water rights/permits limited by an annual volume were assumed to withdraw their entire respective annual volume limitation. Using this method, the estimated average annual withdrawal rate for the Minnelusa aquifer irrigation water rights/permits is approximately 4,072 acre-feet per year (Table 2) (Water Rights, 2026a and 2026c). This value will be used in this analysis to estimate the average annual withdrawal rate for the water rights/permits authorized for irrigation use from the Minnelusa aquifer.

Report on Water Permit Application No. 2901-2

Table 2. Minnelusa aquifer water rights/permits with irrigation listed as a beneficial use (Water Rights, 2026a and 2026c)

Permit No.	Name	Use Type(s)	Authorized Diversion Rate (cfs)	Licensed/ Permitted Acres	Average Report (ac-ft/yr)	Years of Irr Reported	Estimated Irr Use (ac-ft/yr)	Estimated Non-Irr Use (ac-ft/yr)	Total Estimated Use (ac-ft/yr)
1183A-1	Reggie & Sebrina Keil	IRR	1.59	112	4.5	3	224		224
1183B-1	Mitch O'Connell	IRR	0.51	36	0	0	72		72
1197-1	Darrell Nicholas	IRR	0.56	125	1.18	32	1.18		1.18
1254B-1	Sleep Land & Livestock LLC	IRR	0.67	63.7	30.5	14	30.5		30.5
1276-1	Gloria Delzer	IRR	8.73	748.5	306	42	306		306
1382B-1	Jill M Trimble	IRR	0.34	24	8.99	17	8.99		8.99
1382C-1	Karol J Johnson	IRR	0.43	30	1.7	10	1.7		1.7
1382D-1	Polly & Jeff Garrett	IRR	0.24	16.5	1.77	10	1.77		1.77
1407-1	Cindy Trust	IRR	0.57	40	39.95	37	39.95		39.95
1520-1	Jeral & Dianne Shear	IRR, DOM	0.23	13	7.2	34	7.2	99.9	107.1
1584-1	Richard D Sleep	IRR	0.9	63	78.8	31	78.8		78.8
1585-1	Richard D Sleep	IRR	0.38	27	14	31	14		14
1677-2	4 Faces LLC	IRR	0.28	40	2.96	43	2.96		2.96
1703-1	Mike & Debbie Palmer	IRR	0.11	11	2.45	25	2.45		2.45
1703-2	Tim Hamilton	IRR	5.11	522	24	13	24		24
1721-2	Randy Lualin	IRR	0.02	1.7	14.2	43	14.2		14.2
1738-2	Black Hills Health & Education Center	IRR	0.09	60	4.1	42	4.1		4.1
1776-1	Kyle & Lucy Conklin	IRR	0.67	141.2	78.6	22	78.6		78.6
1798-2	Donald Konechne	IRR	0.6	42	20.8	41	20.8		20.8
1803-1	Albert & Ryett Harty	IRR, COM, GEO, DOM, IND	0.22	10	16.75	21	16.75	95.6	112.3
1817-1	Spike Jorgensen	IRR	0.22	38	21.3	21	21.3		21.3
1830-1	James F Wunder	IRR	0.89	10	6.18	20	6.18		6.18
1867-2	Tim Hamilton	IRR	0	120	0	9	240		240
1869-1	Travis Schenk	IRR	0.33	42	44.2	18	44.2		44.2
1901-2	Donald P Wojciechowski	IRR	0.18	18	0.31	40	0.31		0.31
1953-2	Dept of Military	IRR	0.17	13	9.2	39	9.2		9.2
1970-1	Boulder Canyon Country Club	IRR	0.22	58.6	69.6	7	117.2		117.2
2247-2	James Borglum	IRR, DOM	0.09	8	5.83	32	5.83	39.1	44.9
2498A-2	Countryside Homeowners Association	IRR	0.09	107	12.9	8	214		80.36*
2750-2	Chapel in the Hills	IRR	0.145	5.5	2.8	9	11		11
2806-2	Black Hills Power Inc	IRR	0.1	7.7	16.6	5	16.6		16.6
341A-1	Cris D/Dianne K Miller	IRR	3.4	391	113.9	31	113.9		113.9
341B-1	Bear Butte Wildlife LLC	IRR	1.19	83.5	42.6	31	42.6		42.6
372-1	Richard D Sleep	IRR	1.78	174	280.2	43	280.2		280.2
498-2	State Veterans Home	IRR, INS	1.1	21	33.97	43	33.97	477.8	511.8
513-1	False Bottom Livestock	IRR	1.11	193.7	2.9	43	2.9		2.9
566-1	Eric/Michelle Jennings	IRR	1.1	121	27.3	42	27.3		27.3
660-1	John/Brenda Swanson	IRR	1.77	263	217.7	43	217.7		217.7
684-1A****	One Diamond Inc	IRR	0.39	46.7	0.0	0	93.4		93.4
684-1B****	Edgar A & Carole Kellem	IRR	0.11	86.3	0.0	0	172.6		172.6
709-1	Cundy Trust	IRR	1	71.5	45.2	43	45.2		45.2
728-1	Spearfish Canyon Country Club	IRR, COM	0.66	56.7	54.3	42	54.3	286.7	341
775-1	John E Swanson	IRR	1.97	138.5	136.7	43	136.7		136.7
826-1	Belle Fourche Country Club	IRR	0.8	56.2	132.6	43	132.6		132.6
842-1	Robert Phelps	IRR	1	70	2.6	43	2.6		2.6
843-1	Deb Wilburn	IRR	0.77	54	0.57	43	0.57		0.57
876-1	Gene E Johnson	IRR	1	71.3	63.2	43	63.2		63.2
889-1	Crago Cattle Co	IRR	1.6	149	98	29	98		98
891-1	Billy J Evans	IRR	1.77	126.9	118.95	42	118.95		118.95
1582-1	Bear Butte Wildlife LLC	FWP, IRR	1.6	0**	14	21	14	***	14
LC: Licensed Water Right; PE: Water Permit; **Permit limited by authorized annual volume; ***Authorized to irrigate acres covered under different permits; ****Right split into 684A-1 and 684B-1 in May 2024								TOTAL:	4,072

There are domestic wells completed into the Minnelusa aquifer that do not require a water right/permit, so the withdrawal amount from those wells is unknown (Water Rights, 2026d). However, Carter and others (2001b) estimated an average annual withdrawal rate from the Minnelusa aquifer for domestic and livestock use from 1987 to 1996 to be approximately 970 acre-feet per year. It is likely that water withdrawals from the Minnelusa aquifer for domestic and livestock use has increased since 1996; however, with the development of rural water systems and other water distribution systems in some of the areas where the Minnelusa aquifer is a viable aquifer; it is likely some domestic users may have transitioned to those sources. Additionally, due to their relatively low diversion rates, withdrawals from domestic wells are generally not considered to be a significant portion of the hydrologic budget. Therefore, the quantity of water estimated by Carter and others (2001b) for average annual withdrawals by domestic and livestock use from the Minnelusa aquifer will be assumed to be a probable minimum average annual withdrawal rate from the aquifer.

Hydrologic Budget Summary

The estimated average annual recharge rate to the Minnelusa aquifer ranges between approximately 112,167 to 126,000 acre-feet per year. The estimated average annual withdrawal rate from the Minnelusa aquifer is approximately 23,339 acre-feet per year (including the estimated use for Water Permit Application Nos. 2047-1 and 2901-2, if approved) (Table 3). Based on the hydrologic budget, there is a reasonable probability unappropriated water is available from the Minnelusa aquifer for the proposed appropriation.

Table 3. Estimated use from this outwash deposit of the Minnelusa aquifer (Water Rights, 2026a, 2026c, and 2026d)

Type of Water Right/Permit	Estimated Use (acre-feet/year)
Non-Irrigation (including pending app, <i>if approved</i>)	14,597
Irrigation	4,072
Future Use Reservation	3,367
Water Permit No. 2773-2 and Water Right No. 1709-1	309
Domestic & Livestock Use	970
Water Permit Application No. 2901-2 (<i>if approved</i> , assuming two feet of water applied per authorized acre)	24
TOTAL:	23,339

Localized Hydrologic Budget: *Carter, Driscoll, Hamade, & Jarrell (2001b) and Medler, Anderson, & Eldridge (2025)*

The publication by Carter and others (2001b) and a recently completed update of the study (for the water years of 1931 to 2022) by Medler and others (2025) calculated hydrologic budgets for subareas of the Madison and Minnelusa aquifers for the Black Hills (in SD and WY). The budgets were calculated by dividing the Black Hills into nine subareas with the intent of minimizing groundwater flow to and from adjacent subareas. These subareas were determined based on several factors, including locations of major artesian springs, streamflow loss zones,

and areas dominated by precipitation recharge. The existing well proposed to be used by Water Permit Application No. 2901-2 is located in Subarea 4 (Figure 2) (Carter and others, 2001b).

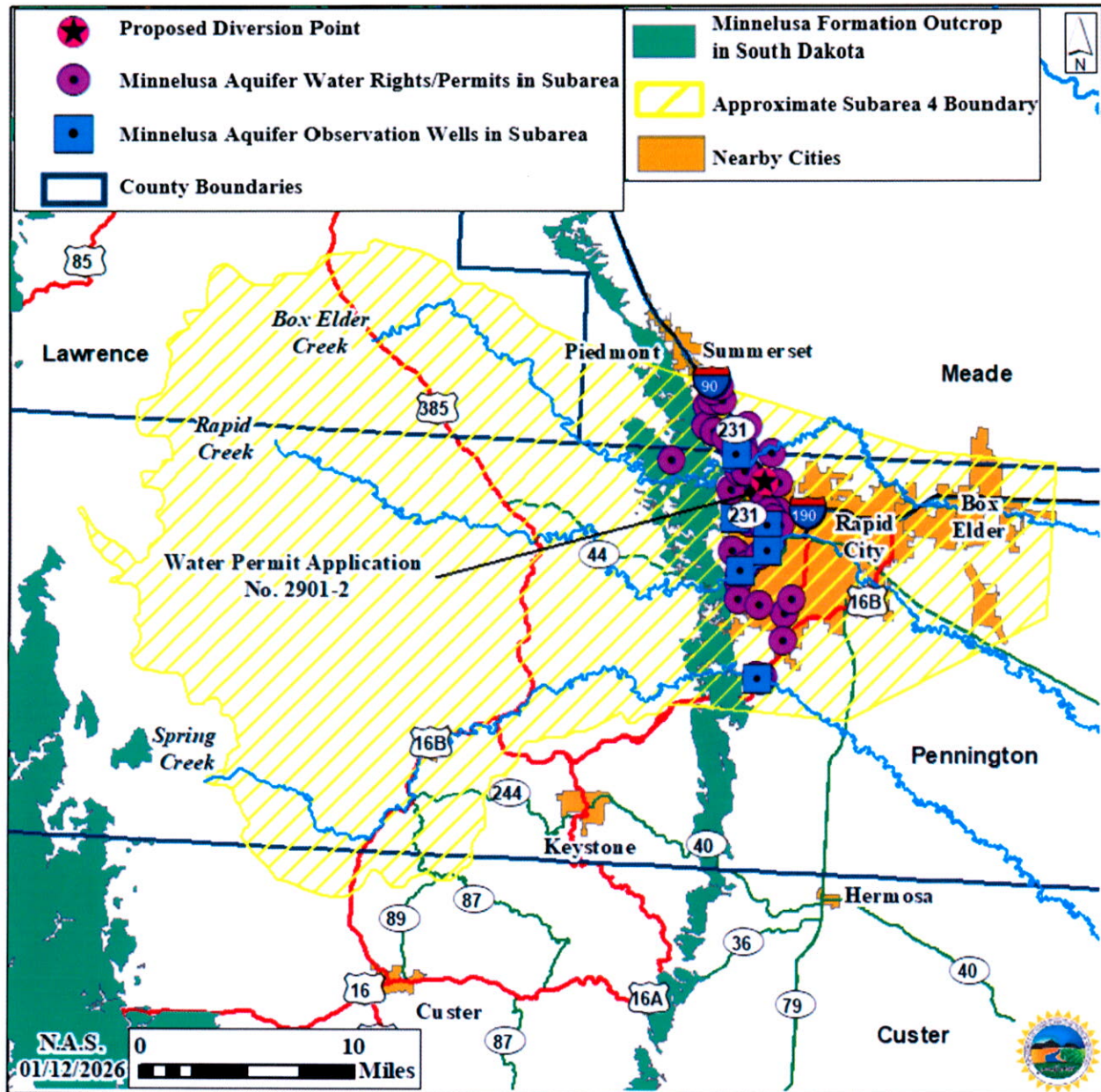


Figure 2. Subarea used for the Madison and Minnelusa aquifers localized hydrologic budgets (modified from Medler and others, 2025), the Minnelusa Formation outcrop (Strobel and others, 1999), the location of the existing well proposed to be used by for Water Permit Application No. 2901-2, and the Minnelusa aquifer water rights/permits and observation wells within Subarea 4 (Water Rights, 2026b and 2026c)

Carter and others (2001b) estimated the average annual recharge rate to Subarea 4 for the Madison and Minnelusa aquifers due to streamflow, precipitation, and groundwater inflow recharge to be approximately 21,429.5 acre-feet per year. Carter and others (2001a) determined that of the combined average annual recharge rate, approximately 45% of the total recharge goes

to the entire Minnelusa aquifer. Although 45% of the total recharge going to the Minnelusa aquifer is for the entirety of the Minnelusa Formation outcrop area in the Black Hills, this percentage can still be used to roughly approximate the average annual recharge rate to the Minnelusa aquifer in Subarea 4, which equates to approximately 10,985 acre-feet per year.

Medler and others (2025) estimated the average annual recharge rate to Subarea 4 for the Minnelusa aquifer due to precipitation to be approximately 2,318 acre-feet per year. Drennon (2026) estimated that the recharge to the Minnelusa aquifer from infiltration of streamflow is approximately 7,942 acre-feet per year. Collectively (from precipitation and streamflow contributions), the average annual recharge rate is approximately 10,260 acre-feet per year.

Recharge to the Minnelusa aquifer in Subarea 4 is likely to range between 10,260 to 10,985 acre-feet per year.

Currently in Subarea 4, there are 55 water rights/permits authorized to withdraw from the Minnelusa aquifer (Water Rights, 2026c). For the water rights/permits authorized for irrigation use, an application rate of two feet per authorized acre per year was utilized for the purpose of estimating the average annual withdrawal rate from the Minnelusa aquifer. The average annual withdrawal rate from the Minnelusa aquifer for the non-irrigation water rights/permits was estimated utilizing the same methods used for the non-irrigation water rights/permits in Table 1. Including Water Permit Application No. 2047-1 (if approved, assuming two feet of water applied per authorized acre), the average annual withdrawal rate from the Minnelusa aquifer is approximately 7,120 acre-feet per year from Subarea 4. Based on the hydrologic budget for the water rights/permits within Medler and others (2025) Subarea 4, there is a reasonable probability unappropriated water is available from the Minnelusa aquifer for the proposed appropriation.

Groundwater models rely on several assumptions and the hydrologic budget for the subarea determined by Medler and others (2025) does not account for other factors contributing to recharge. Additional recharge is likely available through upward leakage from underlying aquifers, recharge through the infiltration of precipitation at areas other than the Black Hills where the Minnelusa Formation outcrops and through well withdrawals inducing groundwater inflow from outside the subarea.

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 23 observation wells completed into the Minnelusa aquifer (Water Rights, 2026b). The four closest observation wells to the well the applicant proposes to use are PE-64B (approximately 0.5 miles southwest), PE-64A (approximately 0.8 miles northwest), PE-89B (approximately two miles southwest), and PE-89D (approximately two miles northwest) (as shown in Figure 4) (Water Rights, 2026b). The

hydrographs for these observation wells are displayed in Figure 3 (Water Rights, 2026b). 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 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 which were then converted to elevation in feet from the NGVD29 vertical datum.

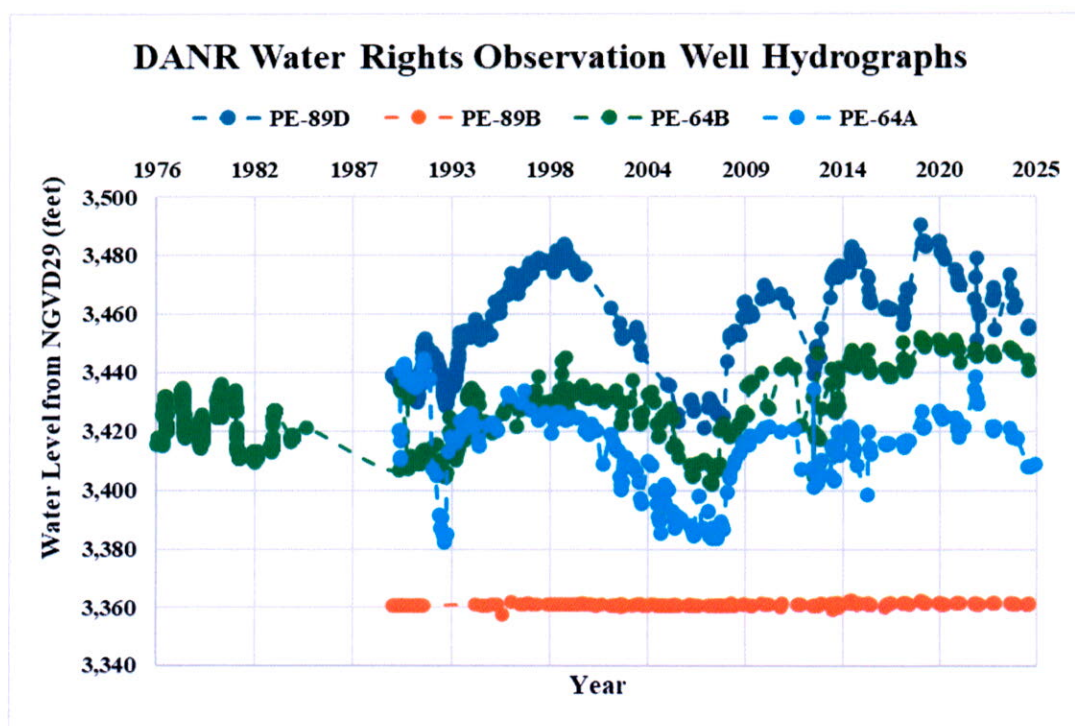


Figure 3. Hydrograph for observation well PE-89D, PE-89B, PE-64B and PE-64A (Water Rights, 2026b)

The hydrographs for the observation wells display generally stable to slightly rising water levels over their respective periods of record. The hydrographs for these observation wells were compared to the hydrographs for the other observations wells completed into the Minnelusa aquifer and each displayed a generally similar trend as shown on the hydrographs displayed in Figure 3 (Water Rights, 2026b). The hydrographs for the Minnelusa 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 annually. 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 Minnelusa 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:

Currently, there are 195 water rights/permits authorized to withdraw water from the entirety of the Minnelusa aquifer, one pending application, and one future use permit reserving water from the Minnelusa aquifer (Water Rights, 2026c). The closest water right/permit to the existing well is Water Right No. 2482-2, which is held by Sioux San Hospital. The diversion point for Water Right No. 2482-2 is located approximately 0.4 miles southwest of the existing well site for this application (Figure 4) (Table 4) (Water Rights, 2023c).

There are domestic wells on file with the DNR-Water Rights Program that are completed into the Minnelusa aquifer, with the closest domestic well on file (not held by the applicant) approximately 0.16 miles southwest of the existing well site (Water Rights, 2026d). There could potentially be other domestic wells completed into the Minnelusa aquifer near the well the applicant proposes to use that are not on file with the DNR-Water Rights Program.

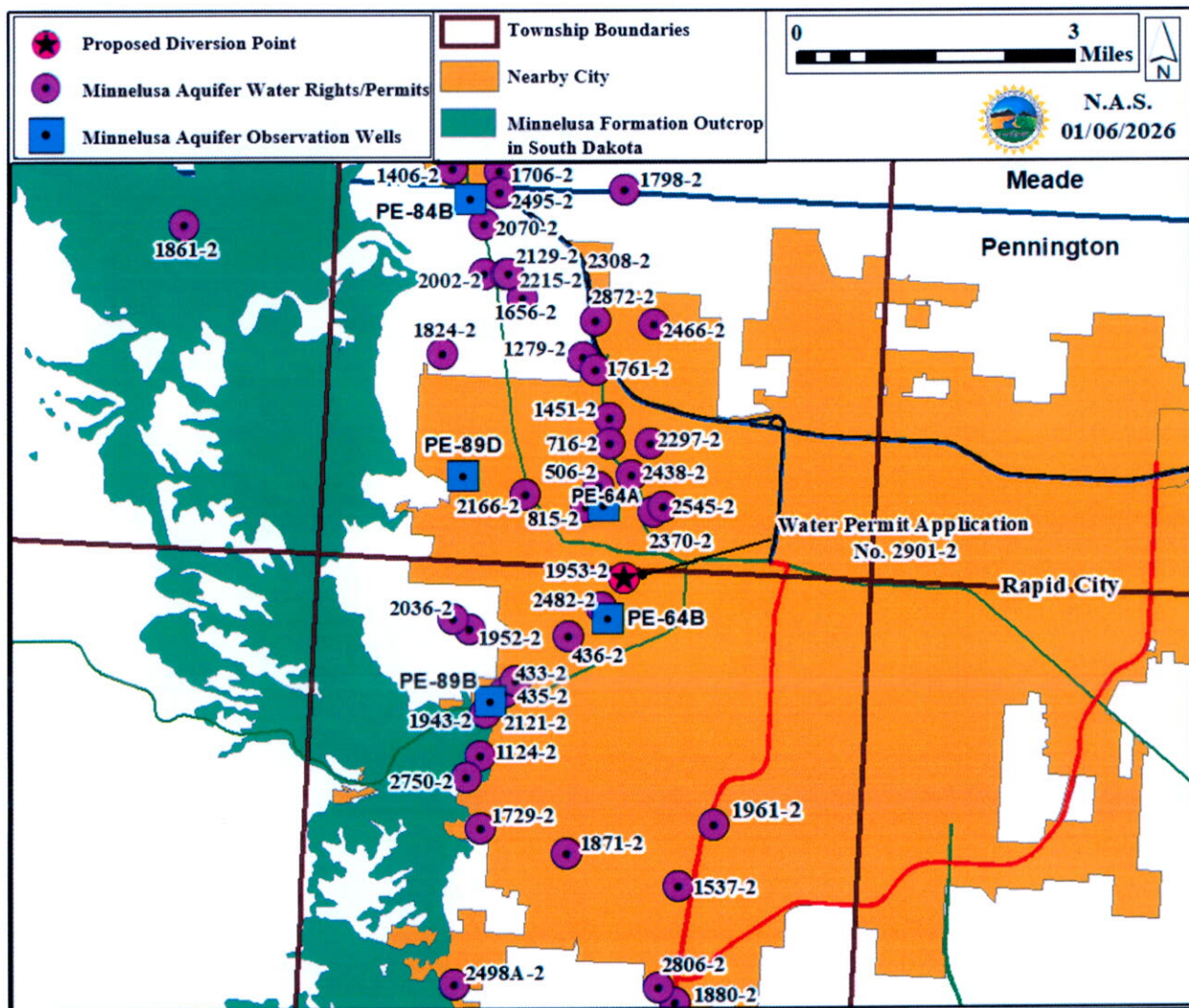


Figure 4. Location of the existing well proposed to be used by Water Permit Application No. 2901-2 with the Minnelusa aquifer water rights/permits and observation wells within approximately five miles (Water Rights, 2026b and 2026c)

Table 4. Water rights/permits authorized to withdraw water from the Minnelusa aquifer within approximately five miles of the existing well, as shown in Figure 4 (Water Rights, 2026c)

Permit No.	Name	Status	Use	Authorized Acres if IRR	Authorized Diversion Rate (cfs)	Licensed/Permitted Volume (acre-feet/year)
1124-2	Chapel Lane Water Co	LC	SHD		0.56	*
1279-2	Pete Lien & Sons	LC	IND		0.68	*
1406-2	Rodney L Vollmer	LC	SHD		0.11	*
1451-2	Rapid Chevrolet Co Inc	LC	COM		0.16	*
1537-2	First Assembly of God	LC	DOM		0.09	*
1656-2	Pete Lien & Sons Inc	LC	IND		2.23	*
1706-2	Northdale Sanitary District	LC	SHD		0.44	*
1729-2	Carriage Hills Water Association	LC	SHD		0.27	*
1761-2	Pete Lien & Sons Inc	LC	DOM		0.1	*
1798-2	Donald Konechne	LC	IRR	42	0.6	*
1824-2	Hidden Valley Water Association	LC	SHD		0.11	*
1861-2	Palmer Subdivision Water Association	LC	SHD		0.02	*
1871-2	Vista Hills Water Association	LC	SHD		0.09	*
1880-2	Rushmore Waterslide Inc	LC	COM		0.17	*
1943-2	Canyon Lake Resort	LC	COM		0.05	*
1952-2	Dept of the Military	LC	DOM		0.09	*
1953-2	Dept of the Military	LC	IRR	13	0.17	*
1961-2	Thomas N St Hill II	LC	COM		0.08	*
2002-2	Pete Lien & Sons Inc	LC	COM		0.08	*
2036-2	Dept of the Military	LC	INS		0.029	*
2070-2	Rodney L Vollmer	LC	SHD		0.15	*
2121-2	City of Rapid City	LC	MUN		0.17	*
2129-2	Ponderosa Ranch LLC	LC	SHD		0.167	*
2166-2	Elizabeth M Frederick	LC	COM		0.022	*
2215-2	Mac Construction	LC	COM		0.022	*
2297-2	Franklin Simpson	LC	COM		0.038	*
433-2	City of Rapid City	LC	MUN		0.84	*
435-2	City of Rapid City	LC	MUN		1.78	*
436-2	City of Rapid City	LC	MUN		1.55	*
506-2	Pete Lien & Sons Inc	LC	IND		0.34	*
716-2	Julian Staven	LC	COM		0.07	*
815-2	GCC Dacotah Inc	LC	IND		1.57	*
2308-2	B&J Mobile Home Park	LC	SHD		0.16	*
2370-2	Mike Sweet	LC	COM		0.133	*
2438-2	Stan Houston Equipment	LC	COM		0.133	*
2466-2	Black Hills Corporation	LC	IND		0.33	*
2482-2	Sioux San Hospital	LC	INS		0.078	*
2495-2	Cobblestone Ridge LLC	LC	SHD		0.17	*
2545-2	Cedar Investment Property LLC	PE	COM		0.2	*
2750-2	Chapel in the Hills	LC	IRR	5.5	0.145	*
2498A-2	Countryside Homeowners Association	LC	IRR	107	0.09	*
2806-2	Black Hills Power	LC	IRR	7.7	0.1	*
2872-2	Butler Machinery Company	PE	COM		0.133	3.07
LC: Licensed Water Right; PE: Water Permit; COM: Commercial; DOM: Domestic; GEO: Geothermal; IND: Industrial; IRR: Irrigation;						
MUN: Municipal; SHD: Suburban Housing Development *Limited by Diversion Rate						

The Minnelusa aquifer can exist under both confined and unconfined aquifer conditions (Long and Putnam, 2009; Water Rights, 2026b and 2026d). Based on the water well completion reports

on file, and lithologic logs on file for nearby observation wells, the Minnelusa aquifer is expected to be confined at the existing well site (SDGS, 2026; Water Rights, 2026b and 2026d). 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. However, observation wells completed into the Minnelusa aquifer near permitted/licensed diversion points can provide some insight on how the aquifer responds to pumping.

Observation well PE-64A (approximately 0.8 miles northwest of the existing well site) has eleven high-yield (assumed to be a well with an authorized diversion rate greater than 0.2 cfs) wells within approximately one mile of it (Water Rights, 2026b and 2026c). Some drawdown resulting from pumping can be seen on the hydrograph for PE-64A, along with the aquifer water level recovering in response to recharge during the spring primary recharge season (Figure 3) (Water Rights, 2026b). The lithologic log on file for PE-64A noted the well was drilled to a depth of approximately 400 feet, had a casing stick up height of approximately 2.8 feet, and the top of aquifer materials approximately 223 feet below the ground surface (SDGS, 2026). The lowest recorded static water level on the hydrograph is approximately 52 feet above the top of the well casing, which indicates there was still approximately 175 feet of artesian head pressure in PE-64A even during a drier period when wells are expected to be pumping more water and when water levels are generally naturally lower in response to drier conditions (SDGS, 2026; Water Rights, 2026b).

Within approximately one mile of the existing well site, wells completed into the Minnelusa aquifer have a saturated aquifer thickness ranging from approximately 20 to 180 feet (SDGS, 2026; Water Rights, 2026d). 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 for this application is not expected to unlawfully impair nearby adequate wells. In Pennington County, there are no substantiated complaints on file with the DANR-Water Rights Program regarding well interference for adequate wells completed into the Minnelusa aquifer (Water Rights, 2026e).

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 Water Management Board considered the delivery of water by artesian head pressure versus maximum beneficial use during the issuance of Water Right No. 2313-2 for Coca-Cola Bottling Company of the Black Hills. The Board adopted the Findings of Facts and Conclusions of Law that noted the reservation of artesian head pressure for delivery of water would be inconsistent with SDCL 46-1-4 which states, “general welfare requires that the water resources of the state be put to beneficial use to the fullest extent of which they are capable...” (Water Rights, 1995). Furthermore, the Water Management Board found if increased cost or decreased production as a result of impacts on artesian head pressure by legitimate users is to be considered as an unlawful impairment, it would also conflict with SDCL 46-1-4 (Water Rights, 1995). With that in mind, some existing well owners may need to install or lower pumps depending on the specific characteristics of the Minnelusa aquifer at their location. However, when considering the statutes (SDCL 46-1-4 and 46-6-6.1), rules (ARSD 74:02:04:20(6) and (7)), the estimated saturated thickness of the Minnelusa aquifer near the existing well site, the artesian head pressure in observation wells near permitted/licensed diversion points, and the lack of well interference complaints, any drawdown created from the proposed 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. Additionally, the existing well proposed to be used has been in place and is presumed to have been in use since roughly 1985 (based on the priority date for Water Right No. 1953-2) without any reported well interference complaints on file with the DANR-Water Rights Program (Water Rights, 2026d and 2026e).

Additional Considerations: Springs

In the past, there have been concerns that development of the Minnelusa aquifer will affect spring discharge. The nearest major springs that are sourced by water from the Minnelusa aquifer are the City Springs (approximately 1.5 miles northwest of the existing well site) and the Cleghorn/Jackson Springs (approximately 2.5 miles southwest of the existing well site) (Driscoll and others, 2002). When considering the deferral of Water Permit Application No. 2585-2 for the Southern Black Hills Water System, the Water Management Board adopted a conclusion of law stating in part “...The only protection South Dakota law provides when considering an application for an underground water permit for flow from an artesian spring is under the public interest criteria” (Water Rights, 1997). Given the distance between the existing well site and the springs mentioned above, while considering the applicant’s proposed maximum diversion rate, there is a reasonable probability Water Permit Application No. 2901-1 can be developed without making an impact that would be measurable above the natural fluctuations in the nearest spring.

CONCLUSIONS:

1. Water Permit Application No. 2901-2 proposes to increase the maximum instantaneous diversion rate from a well authorized by Water Right No. 1953-2 by 0.223 cfs and irrigate 12 acres in addition to what is already authorized by Water Right No. 1953-2. Water Right No. 1953-2 authorizes diversion of 0.17 cfs from one well completed into the Minnelusa aquifer (565 feet deep) for the irrigation of 13 acres.

2. Water Permit Application No. 2901-2 proposes to amend Water Right No. 1953-2 to expand the period of use from April 1 through October 31. If approved, Water Permit Application No. 2901-2 and Water Right No. 1953-2 authorizes a total of 0.39 cfs for the irrigation of 25 acres from April 1 through October 31 annually. The site of interest is located in Pennington County in northwest area of Rapid City, SD.
3. Based on the observation well data and the hydrologic budgets (statewide and subarea 4), there is a reasonable probability that unappropriated water is available from the Minnelusa aquifer to supply the proposed appropriation.
4. There is a reasonable probability that the proposed diversion by Water Permit Application No. 2901-2 will not unlawfully impair adequate wells for existing water right/permit holders and domestic users.

Nakaila Steen

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

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Water Rights, 2026e. County Files, SD DANR-Water Rights Program, Joe Foss Bldg, Pierre, SD.

Rodriguez, Rachel

From: Morgan, Alden J NFG NG SDARNG (USA) <alden.j.morgan.nfg@army.mil>
Sent: Friday, November 21, 2025 11:11 AM
To: Rodriguez, Rachel; Dewell, Amanda
Subject: Re: [EXT] SD Dept of the Military Camp Rapid Well No. 1 - Supplemental Water Right Permit Application - [UNCLASSIFIED]

UNCLASSIFIED

Good Morning,

We have funding approved, if you can send over the non-cash voucher, we will get it going here!

Thank you,

Alden Morgan

Compliance Manager
South Dakota Department of Military, SDARNG
2823 W. Main Street Rapid City, SD 57702
Office: (605) 737-6830
Cell: (850) 582-6308

From: Rodriguez, Rachel <Rachel.Rodriguez@state.sd.us>
Sent: Thursday, November 20, 2025 8:26 AM
To: Morgan, Alden J NFG NG SDARNG (USA) <alden.j.morgan.nfg@army.mil>; Dewell, Amanda <Amanda.Dewell@state.sd.us>
Subject: RE: SD Dept of the Military Camp Rapid Well No. 1 - Supplemental Water Right Permit Application - [UNCLASSIFIED]

Yes, this is fine. Once we receive payment, I will begin processing your application.

Thank you,

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



From: Morgan, Alden J NFG NG SDARNG (USA) <alden.j.morgan.nfg@army.mil>
Sent: Thursday, November 20, 2025 8:55 AM

To: Dewell, Amanda <Amanda.Dewell@state.sd.us>; Rodriguez, Rachel <Rachel.Rodriguez@state.sd.us>
Subject: Re: [EXT] SD Dept of the Military Camp Rapid Well No. 1 - Supplemental Water Right Permit Application - [UNCLASSIFIED]

UNCLASSIFIED

Is this better?

Alden Morgan

Compliance Manager
South Dakota Department of Military, SDARNG
2823 W. Main Street Rapid City, SD 57702
Office: (605) 737-6830
Cell: (850) 582-6308

From: Dewell, Amanda <Amanda.Dewell@state.sd.us>
Sent: Thursday, November 20, 2025 7:42 AM
To: Morgan, Alden J NFG NG SDARNG (USA) <alden.j.morgan.nfg@army.mil>; Rodriguez, Rachel <Rachel.Rodriguez@state.sd.us>
Subject: RE: SD Dept of the Military Camp Rapid Well No. 1 - Supplemental Water Right Permit Application - [UNCLASSIFIED]

Alden, can you also Identify the location of the well that will be used for this project, on your map?

Thanks!

Amanda Dewell
DANR - Water Rights Program
Permitting Administrator
Main Phone: 605 773-3352
Website: danr.sd.gov



From: Morgan, Alden J NFG NG SDARNG (USA) <alden.j.morgan.nfg@army.mil>
Sent: Thursday, November 20, 2025 8:34 AM
To: Rodriguez, Rachel <Rachel.Rodriguez@state.sd.us>
Cc: Dewell, Amanda <Amanda.Dewell@state.sd.us>
Subject: Re: [EXT] SD Dept of the Military Camp Rapid Well No. 1 - Supplemental Water Right Permit Application - [UNCLASSIFIED]

UNCLASSIFIED

Good Morning Rachel,

I don't have access to GIS myself. I have taken Google Earth and attempted to highlight the area, I apologize for the roughness. I will go talk to the GIS Person if a better map is needed.

Let me know if there is anything else.

Thank you,

Alden Morgan

Compliance Manager
South Dakota Department of Military, SDARNG
2823 W. Main Street Rapid City, SD 57702
Office: (605) 737-6830
Cell: (850) 582-6308

From: Rodriguez, Rachel <Rachel.Rodriguez@state.sd.us>
Sent: Wednesday, November 19, 2025 11:45 AM
To: Morgan, Alden J NFG NG SDARNG (USA) <alden.j.morgan.nfg@army.mil>
Cc: Dewell, Amanda <Amanda.Dewell@state.sd.us>
Subject: RE: SD Dept of the Military Camp Rapid Well No. 1 - Supplemental Water Right Permit Application - [UNCLASSIFIED]

Good Afternoon Alden,

I'm looking over the map and I just want to clarify, are the additional 12 acres (see attachment) the area that I have highlighted in green? If not, would you please outline the appropriate area? Regarding payment, I have attached an invoice for your convenience. Please have Dianna Bromwich contact our fiscal department at 605-773-5559 for payment.

Thank you,

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



From: Morgan, Alden J NFG NG SDARNG (USA) <alden.j.morgan.nfg@army.mil>
Sent: Wednesday, November 19, 2025 12:12 PM
To: Dewell, Amanda <Amanda.Dewell@state.sd.us>
Cc: Rodriguez, Rachel <Rachel.Rodriguez@state.sd.us>; Roe, Kyle <Kyle.Roe@state.sd.us>
Subject: Re: [EXT] SD Dept of the Military Camp Rapid Well No. 1 - Supplemental Water Right Permit Application - [UNCLASSIFIED]

UNCLASSIFIED

Amanda,

Thank you for getting back to me so quickly. Will this map be sufficient? It is the combined total 25 acres that are planned to be irrigated.

Additionally, just a heads up, we will pursue a Non-Cash Voucher to pay for the permitting fees. Our Resource Management department prefers it to be initiated through your office. The point of contact from our side will be Dianna Bromwich. I am waiting on final approval to execute it. I am hoping to hear back later today, but within the next few days for sure.

Thank you,

Alden Morgan
Compliance Manager
South Dakota Department of Military, SDARNG
2823 W. Main Street Rapid City, SD 57702
Office: (605) 737-6830
Cell: (850) 582-6308

From: Dewell, Amanda <Amanda.Dewell@state.sd.us>
Sent: Wednesday, November 19, 2025 9:48 AM
To: Morgan, Alden J NFG NG SDARNG (USA) <alden.j.morgan.nfg@army.mil>
Cc: Rodriguez, Rachel <Rachel.Rodriguez@state.sd.us>
Subject: RE: SD Dept of the Military Camp Rapid Well No. 1 - Supplemental Water Right Permit Application - [UNCLASSIFIED]

The fee for this application will be \$700 (\$500 for the additional acres and \$200 for the inspection). We will draft a public notice and provide it to the papers. When the time comes to run it, Rachel (cc'd) will contact you and you will remit payment for that notice to the identified papers.

There is a timeframe (10 days) required to allow for public comment/opposition to an application.

Now that we've gotten your application, all we need to begin processing are the fees and a map showing the there 12 new acres that will be irrigated and the well site.

I've attached a PDF outlining the process that will hopefully answer any other questions. If not, please reach out.

Amanda Dewell
DANR - Water Rights Program
Permitting Administrator
Main Phone: 605 773-3352
Website: danr.sd.gov



From: Morgan, Alden J NFG NG SDARNG (USA) <alden.j.morgan.nfg@army.mil>
Sent: Wednesday, November 19, 2025 9:32 AM
To: Dewell, Amanda <Amanda.Dewell@state.sd.us>
Subject: Re: [EXT] SD Dept of the Military Camp Rapid Well No. 1 - Supplemental Water Right Permit Application - [UNCLASSIFIED]

UNCLASSIFIED

Good Morning Amanda,

I have the permit signed off as of yesterday afternoon. I have attached a scanned copy. I have a few questions on the next steps.

In the Application Instructions for Water Permit for Irrigation it states that the fee would be for a new permit for the first 120 acre feet would be \$500 I assume that is the total. But I am wondering since ours is a change of existing permit as well as a new permit would there be an additional fee?

Second, in section 5 Publications it states that publication notice will be sent to the newspaper. Is there anything that needs to be written up from our end? If so, is there an example of what a write up would look like? OR is the notice a set design, and our portion is just reaching out to the Rapid City Journal to secure payment. Additionally, how long does it need to run in the paper?

After those answers, what is my next step to finalizing this?

Thank you for the clarification in advance.

Alden Morgan

Compliance Manager

South Dakota Department of Military, SDARNG

2823 W. Main Street Rapid City, SD 57702

Office: (605) 737-6830

Cell: (850) 582-6308

From: Dewell, Amanda <Amanda.Dewell@state.sd.us>

Sent: Wednesday, November 12, 2025 10:39 AM

To: Roe, Kyle <Kyle.Roe@state.sd.us>; Mayer, Mark <Mark.Mayer@state.sd.us>

Cc: Morgan, Alden J NFG NG SDARNG (USA) <alden.j.morgan.nfg@army.mil>; Morgan, Alden <Alden.Morgan@state.sd.us>

Subject: RE: SD Dept of the Military Camp Rapid Well No. 1 - Supplemental Water Right Permit Application

Kyle, I've "tweaked" the application you'd originally sent. I believe this shows what you're looking to develop while also allowing enough wiggle room that additional paperwork wouldn't be necessary if slight changes were made to the project during development.

Please take a look at the attachment and let me know if you agree. As a reminder, this is YOUR application, so if you believe I've misrepresented the project, it is important to say so.

Amanda Dewell

DANR - Water Rights Program

Permitting Administrator

Main Phone: 605 773-3352

Website: danr.sd.gov



From: Roe, Kyle <Kyle.Roe@state.sd.us>
Sent: Wednesday, November 12, 2025 11:13 AM
To: Dewell, Amanda <Amanda.Dewell@state.sd.us>; Mayer, Mark <Mark.Mayer@state.sd.us>
Cc: alden.j.morgan.nfg@army.mil; Morgan, Alden <Alden.Morgan@state.sd.us>
Subject: RE: SD Dept of the Military Camp Rapid Well No. 1 - Supplemental Water Right Permit Application

Amanda,

We are not drilling a new well. We are replacing the existing well pump with a newer and larger pump.

Our acreage is increasing, and that additional acreage is 12 Acres, which is reflected in the 25 Total acreage claim on the new application.

Beyond the additional acreage and not drilling a new well, we are increasing our authorized pump rate and timeframe.

Thank you,

Kyle Roe, EI

Engineer III/Project Manager

SD Dept. of the Military

Desk: 605-737-6605

Cell: 605-381-4093

Office Hours: M-TH 0630-1700 MT

DOD Email: kyle.j.roe2.nfg@army.mil

State Email: kyle.roe@state.sd.us

Note: I will be out of the office from November 21-30, 2025. I will be back in the office December 1, 2025.

From: Dewell, Amanda <Amanda.Dewell@state.sd.us>
Sent: Wednesday, November 12, 2025 7:36 AM
To: Roe, Kyle <Kyle.Roe@state.sd.us>; Mayer, Mark <Mark.Mayer@state.sd.us>
Subject: RE: SD Dept of the Military Camp Rapid Well No. 1 - Supplemental Water Right Permit Application

Kyle,

Thank you for reaching out with your questions. You're in the right place! I've taken a look at your attachments and want to confirm that you're not intending to drill a new well or irrigate new acres, you just need to increase your authorized pump rate and the timeframe in which irrigation is allowed, correct?

Amanda Dewell

DANR - Water Rights Program

Permitting Administrator

Main Phone: 605 773-3352

Website: danr.sd.gov



From: Roe, Kyle <Kyle.Roe@state.sd.us>
Sent: Monday, November 10, 2025 11:48 AM
To: Dewell, Amanda <Amanda.Dewell@state.sd.us>; Mayer, Mark <Mark.Mayer@state.sd.us>
Subject: FW: SD Dept of the Military Camp Rapid Well No. 1 - Supplemental Water Right Permit Application

Amanda and Mark,

Not sure who I should send this email to, so I looked up DANR Water rights and you guys came up. I need to learn what is required for us to apply for a new irrigation permit.

We (South Dakota Department of the Military) have a project coming up on Camp Rapid where we are replacing our existing well pump with a much larger pump.

Attached is some email correspondence our AE firm FMG had with Eric Gronlund of DANR Water rights program back in 2022 to provide some context of what we are doing. The attached application and location map were all compiled back in 2022.

If you could provide me with some guidance for applying for the irrigation permit I would appreciate it.

Thank you,

Kyle Roe, EI

Engineer III/Project Manager

SD Dept. of the Military

Desk: 605-737-6605

Cell: 605-381-4093

Office Hours: M-TH 0630-1700 MT

DOD Email: kyle.j.roe2.nfg@army.mil

State Email: kyle.roe@state.sd.us

Note: I will be out of the office from November 21-30, 2025. I will be back in the office December 1, 2025.

From: Jason Pettyjohn <jpettyjohn@fmgeengineering.com>

Sent: Friday, November 7, 2025 12:18 PM

To: Roe, Kyle <Kyle.Roe@state.sd.us>

Cc: Jason Hinds <jhinds@fmgeengineering.com>

Subject: FW: [EXT] Camp Rapid Well No. 1 - Supplemental Water Right Permit Application

Kyle,

I heard there was a question regarding the water right permit for the upgraded well. See below and attached for the information that you need to submit and an email from DANR telling us how to structure the request for the changes that you should keep for your records.

Regards,



Jason Pettyjohn, P.E.

Office: 605.342.4105 • Cell: 605.787.3470

From: Jason Pettyjohn

Sent: Tuesday, January 9, 2024 8:35 AM

To: Rudebusch, Christian <Christian.Rudebusch@state.sd.us>; Jorgensen, Cullen <Cullen.Jorgensen@state.sd.us>

Subject: Camp Rapid Well No. 1 - Supplemental Water Right Permit Application

Christian,

Attached is the water right permit application that needs to be completed by Environmental staff and submitted to DANR. See instructions on the first page for filing requirements. Note that the attached map and a fee of \$500 also needs to be sent with the application.

Regards,



Jason Pettyjohn, P.E.

Senior Project Engineer

FMG Engineering

3700 Sturgis Road • Rapid City, SD 57702

Office: 605.342.4105 • Cell: 605.787.3470

fmgengineering.com

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Rodriguez, Rachel

From: Dewell, Amanda
Sent: Wednesday, November 19, 2025 10:48 AM
To: Rodriguez, Rachel
Subject: FW: [EXT] SD Dept of the Military Camp Rapid Well No. 1 - Supplemental Water Right Permit Application - [UNCLASSIFIED]
Attachments: Irrigation PermitApplication_DoM_11182025.pdf

I just cc'd you in a response email. Please see attached application.

Amanda Dewell
DANR - Water Rights Program
Permitting Administrator
Main Phone: 605 773-3352
Website: danr.sd.gov



From: Morgan, Alden J NFG NG SDARNG (USA) <alden.j.morgan.nfg@army.mil>
Sent: Wednesday, November 19, 2025 9:32 AM
To: Dewell, Amanda <Amanda.Dewell@state.sd.us>
Subject: Re: [EXT] SD Dept of the Military Camp Rapid Well No. 1 - Supplemental Water Right Permit Application - [UNCLASSIFIED]

UNCLASSIFIED

Good Morning Amanda,

I have the permit signed off as of yesterday afternoon. I have attached a scanned copy. I have a few questions on the next steps.

In the Application Instructions for Water Permit for Irrigation it states that the fee would be for a new permit for the first 120 acre feet would be \$500 I assume that is the total. But I am wondering since ours is a change of existing permit as well as a new permit would there be an additional fee?

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After those answers, what is my next step to finalizing this?

Thank you for the clarification in advance.

Alden Morgan
Compliance Manager
South Dakota Department of Military, SDARNG

2823 W. Main Street Rapid City, SD 57702

Office: (605) 737-6830

Cell: (850) 582-6308

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Sent: Wednesday, November 12, 2025 10:39 AM

To: Roe, Kyle <Kyle.Roe@state.sd.us>; Mayer, Mark <Mark.Mayer@state.sd.us>

Cc: Morgan, Alden J NFG NG SDARNG (USA) <alden.j.morgan.nfg@army.mil>; Morgan, Alden <Alden.Morgan@state.sd.us>

Subject: RE: SD Dept of the Military Camp Rapid Well No. 1 - Supplemental Water Right Permit Application

Kyle, I've "tweaked" the application you'd originally sent. I believe this shows what you're looking to develop while also allowing enough wiggle room that additional paperwork wouldn't be necessary if slight changes were made to the project during development.

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Amanda Dewell

DANR - Water Rights Program

Permitting Administrator

Main Phone: 605 773-3352

Website: danr.sd.gov



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Sent: Wednesday, November 12, 2025 11:13 AM

To: Dewell, Amanda <Amanda.Dewell@state.sd.us>; Mayer, Mark <Mark.Mayer@state.sd.us>

Cc: alden.j.morgan.nfg@army.mil; Morgan, Alden <Alden.Morgan@state.sd.us>

Subject: RE: SD Dept of the Military Camp Rapid Well No. 1 - Supplemental Water Right Permit Application

Amanda,

Thank you,

We are not drilling a new well. We are replacing the existing well pump with a newer and larger pump.

Kyle Roe, EI

Our acreage is increasing, and that additional acreage is 12 Acres, which is reflected in the 25 Total acreage claim on the new application.

SD Dept. of the Military

Desk: 605-737-6605

Beyond the additional acreage and not drilling a new well, we are increasing our authorized pump rate and timeframe.

Office Hours: M-TH 0630-1700 MT

Thank you,

Kyle Roe, EI

Kyle Roe, EI

Engineer III/Project Manager

SD Dept. of the Military

Desk: 605-737-6605

Sent: Wednesday, November 12, 2025 7:36 AM

Cell: 605-381-4093

Office Hours: M-TH 0630-1700 MT

DOD Email: kyle.j.roe2.nfg@army.mil

State Email: kyle.roe@state.sd.us

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Subject: RE: SD Dept of the Military Camp Rapid Well No. 1 - Supplemental Water Right Permit Application

Kyle,

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Amanda Dewell

From: Roe, Kyle <Kyle.Roe@state.sd.us>

DANR - Water Rights Program 11/10/25 11:48 AM

To: Dewell, Amanda <Amanda.Dewell@state.sd.us>; Mayer, Mark <Mark.Mayer@state.sd.us>

Subject: Permitting Administrator e Military Camp Rapid Well No. 1 - Supplemental Water Right Permit Application

Main Phone: 605 773-3352

Website: danr.sd.gov



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Sent: Monday, November 10, 2025 11:48 AM

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Thank you,

605-467-6500

beyond the additional acreage and not drilling a new well, we are increasing our authorized pump rate and timeframe.

Kyle Roe, EI

Engineer III/Project Manager from November 21-30, 2025. I will be back in the office December 1, 2025.

SD Dept. of the Military

Desk: 605-737-6605

Cell: 605-381-4093

Office Hours: M-TH 0630-1700 MT

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Subject: FW: [EXT] Camp Rapid Well No. 1 - Supplemental Water Right Permit Application

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Sent: Tuesday, January 9, 2024 8:35 AM

Regards,



Jason Pettyjohn, P.E.

Office: 605.342.4105 • Cell: 605.787.3470

Amanda Dewell

DANR Water Rights Program

Permitting Administrator, Camp Rapid Well No. 1 - Supplemental Water Right Permit Application

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Sent: Tuesday, January 9, 2024 8:35 AM

To: Rudebusch, Christian <Christian.Rudebusch@state.sd.us>; Jorgensen, Cullen <Cullen.Jorgensen@state.sd.us>
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Jason Pettyjohn, P.E.

Senior Project Engineer

FMG Engineering

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Jason Pettyjohn, P.E.

Senior Project Engineer

FMG Engineering

3700 Sturgis Road • Rapid City, SD 57702

Office: 605.342.4105 • Cell: 605.787.3470

fmgengineering.com

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**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 NEWSPAPER RIGHT AWAY.**

February 10, 2026

SD Department of the Military
c/o Alen Morgan
2823 W Main Street, Bldg. 420 JFHQ
Rapid City SD 57702

Dear Mr. Morgan:

Water Permit Application No. 2901-2 has been examined and found to comply with the South Dakota Water Laws and applicable rules. A notice has been sent to the Rapid City Journal printed in Rapid City SD (see the Column email sent from the newspaper). You will need to contact the newspaper and authorize publication of this notice. For your information, a copy of the notice, the recommendation of the Acting 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 newspaper to authorize publication of your Notice and to arrange for payment. Early contact with the paper can eliminate delays. Upon receiving authorization from you, the publisher has been instructed to publish your notice. The newspaper has 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 Acting 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. 2901-2 to Appropriate Water

Notice is given that the SD Department of the Military, 2823 W Main Street, Bldg. 420 JFHQ, Rapid City SD 57702, has filed an application for a water permit to appropriate an additional 0.223 cubic feet of water per second (cfs) from a well authorized by Water Right No. 1953-2 and irrigate 12 acres located in the N 1/2 NW 1/4 Section 3-T1N-R7E, in addition to what is already authorized by No. 1953-2. Water Right No. 1953-2 authorizes diversion of 0.17 cfs from one well completed into the Minnelusa Aquifer (565 feet deep) located in the NE 1/4 NW 1/4 Section 3 for irrigation of 13 acres located in the N 1/2 NW 1/4 Section 3; all in T1N-R7E. This application also proposes to amend Water Right No. 1953-2 to expand the period of use from April 1 through October 31. This application, if approved, combined with Water Right No. 1953-2, authorizes a total of 0.39 cfs for the irrigation of 25 acres from April 1 through October 31, annually. This site is located in the northwest area of Rapid City SD.

Pursuant to SDCL 46-2A-2, the Acting Chief Engineer recommends APPROVAL of Application No. 2901-2 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 Acting 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 Acting Chief Engineer. A petition opposing the application shall be filed on a form provided by the Acting Chief Engineer. The petition form is available online at <https://danr.sd.gov/public> or by contacting the Acting Chief Engineer. The Acting 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 Acting 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 March 2, 2026.

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 Acting Chief Engineer. The comment shall be filed on a form provided by the Acting Chief Engineer and is available online at <https://danr.sd.gov/public> or by calling (605) 773-3352 or writing the Acting 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 March 2, 2026.

If the applicant does not contest the recommendation of the Acting Chief Engineer and no petition to oppose the application is received, the Acting 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.

Rodriguez, Rachel

From: Rodriguez, Rachel
Sent: Tuesday, February 10, 2026 8:43 AM
To: RCY Legals
Subject: 2901-2 SD Dept of the Military - Public Notice
Attachments: 2901-2 public.short_final.docx; FORM8.FRM.doc

Attached is a notice to be published on February 19, 2026.

SD Department of the Military, 2823 W Main Street, Bldg. 420 JFHQ, Rapid City SD 57702, 605-737-6830, alden.j.morgan.nfg@army.mil 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, Attn Rachel Rodriguez, 523 E Capitol Ave, Pierre SD 57501.

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

Thank you,

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



Rodriguez, Rachel

From: Renniel Pasia <leelegals@column.us>
Sent: Tuesday, February 10, 2026 11:40 AM
To: Rodriguez, Rachel; alden.j.morgan.nfg@army.mil
Subject: Re: [EXT] 2901-2 SD Dept of the Military - Public Notice
Attachments: b4ufHmE4roFjOGawWFEz_1770745149824.pdf

Hi there,

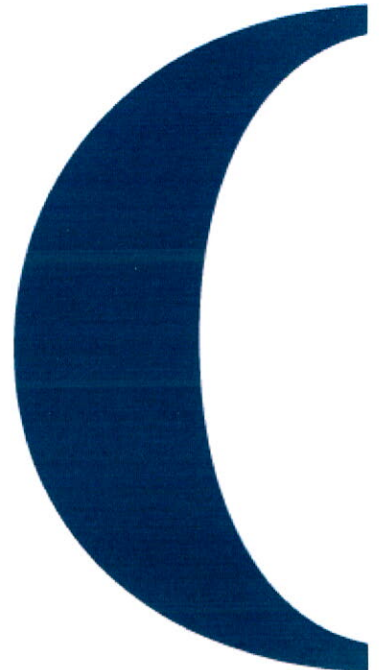
Your notice is scheduled to be published in the The Rapid City Journal on February 19, 2026. Your Notice ID is: [b4ufHmE4roFjOGawWFEz](#)

You will be receiving a notification from Column Support with your proof. If you don't see it, check your spam folder and any email restrictions you may have.

For the fastest and most reliable placement process, use [column.us](#) to quickly place notices yourself, get proofs, view pricing, and access your invoices and affidavits. Visit our [help center](#) for tips, or sign up for one of our [training webinars](#).

If you have any questions or concerns, please don't hesitate to let us know so we can look into it!

—
// Renniel



On February 10, 2026 at 9:43 AM EST rachel.rodriguez@state.sd.us wrote:

Attached is a notice to be published on February 19, 2026.

SD Department of the Military, 2823 W Main Street, Bldg. 420 JFHQ, Rapid City SD 57702, 605-737-6830, alden.j.morgan.nfg@army.mil has been notified to contact you to authorize publication and arrange for payment.

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

Thank you,

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



Rodriguez, Rachel

From: Rodriguez, Rachel
Sent: Tuesday, February 10, 2026 8:56 AM
To: alden.j.morgan.nfg@army.mil
Subject: 2901-2 SD Dept of the Military - Public Notice
Attachments: 2901-2 Rec.pdf; 2901-2 Ltr.pdf; 2901-2 PubNotice.pdf

Good morning,

Attached is a copy of the report, acting chief engineer's recommendation, and information regarding the public notice for your water permit application. You should receive an email directly from the Rapid City Journal, they use an online portal called Column. This information is also being mailed to you today.

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

Thank you,

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



2901-2 SD Dept of the Military | Page 1 of 2

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(Published February 19, 2026 for a total approximate cost of \$35.82 and may be viewed for free at www.sdpublicnotices.com)
Legal No: COL-SD-4174

RECEIVED

MAR - 2 2026

OFFICE OF
WATER



**DEPARTMENT of AGRICULTURE
and NATURAL RESOURCES**

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

MAY 04 2026

SD Department of the Military
c/o Alden Morgan
2823 W Main Street, Bldg. 420 JFHQ
Rapid City SD 57702

Dear Mr. Morgan:

Enclosed is Water Permit No. 2901-2 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,

Adam Mathiowetz, PE
Acting Chief Engineer
Water Rights Program

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.: 2901-2

Name of Applicant: SD Department of the Military, Dana Limbo

Date of Posting: 2/17/2026

Date of Removal: 5/4/2026

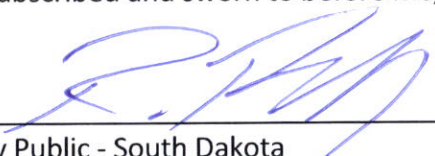


Amanda Dewell, Permitting Administrator

5/4/2026

Date

Subscribed and sworn to before me, a notary public, this 4th day of May, 2026.



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

(SEAL)

