

WATER PERMIT NO. 8598-3

Name of Applicant: Tim Wellenstein

Address: 29181 460th Ave, Centerville SD 57014

Phone: 605 261-9277

Amount of Water Claimed: 1.78 cfs

Total Acres: 126 acres

Source of Water Supply: groundwater (one well)

Water to be used for: irrigation

County: Turner

Type of Waste Disposal System:

Location: 3 miles east of Viborg

PRIORITY

Date Received: 2-24-22

Application/License Fee: \$ 1050

Corrected Application Received:

Period of Annual Use: April 1 – September 30

Remarks:

Diversion Point: center of SW 1/4 Sec 32-T97N-
R52W

Land to be Irrigated: SW 1/4 Sec 32-T97N-R52W

Depth of Well: 180 feet deep

Well Driller:

Remarks:

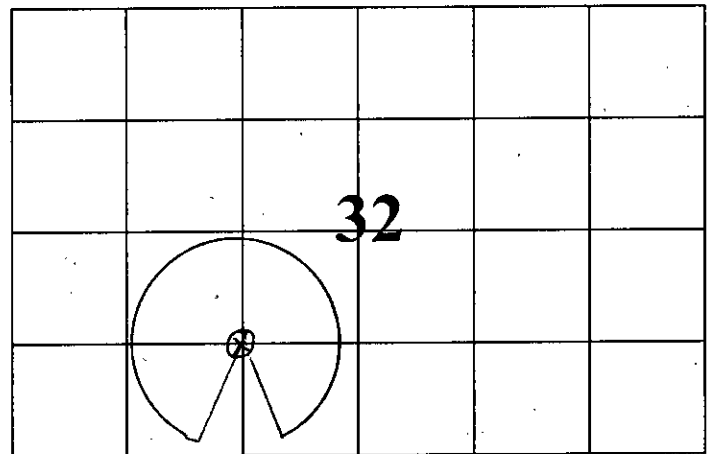
Type of Map: aerial

Prepared by:

Reviewed and the Number Assigned on: 2-24-22

By: **Karen Schlaak**

Notice of Hearing - date to intervene: _____



**SOUTH DAKOTA
WATER PERMIT NO. 8598-3**

Date of first receipt of application February 24, 2022.

The Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 8598-3 to Tim Wellenstein, 29181 460th Ave, Centerville SD 57014 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. 8598-3 appropriates 1.78 cubic feet of water per second from one well to be completed into the Upper Vermillion Missouri:South Aquifer (approximately 180 feet deep) located in the center of the SW 1/4 Section 32 for irrigation of 126 acres located in the SW 1/4 Section 32; all in T97N-R52W. This site is located approximately 3 miles east of Viborg 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 – September 30.
3. The date from which applicant may claim right is February 24, 2022.
4. The date of approval of Permit No. 8598-3 is April 11, 2022.
5. One-fifth of the construction is to be completed on or before October 11, 2024.
6. All construction is to be completed on or before April 11, 2027.
7. Water is to be put to beneficial use on or before April 11, 2031.
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 well approved under Water Permit No. 8598-3 is located near domestic wells and other wells which may obtain water from the same aquifer. Water withdrawals shall be controlled so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.
2. The well authorized by Permit No. 8598-3 shall be constructed by a licensed well driller and construction of the well and installation of the pump shall 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

APR 28 2022
date



8598-3

RECEIVED

FEB 24 2022

PAID

FEB 24 2022

Ck# 3755

Rec't#

525 E Capitol Ave
Pierre, SD 57501-3182
ph. (605) 773-3352

Newspaper Vermillion River 10170102 WATER RIGHTS PROGRAM
Centerville Journal & Argus Leader

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 TIM WELLENSTEIN

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

Mailing Address 29181 460th AVE CENTERVILLE SD 57014
(Address) (City) (State) (Zip Code)

Phone (605) 261-9277 Mobile x Email TimWellenstein83@gmail.com

2. Amount of water claimed 1.78 *CFS or 800 **GPM x ***AF Total Acreage 12.6
(*Cubic Feet per Second) (**Gallons per Minute) (***)Acre Feet - storage capacity of dam/dugout or annual use if applicable)

3. Source of water supply UPPER VERMILLION - MISSOURI AQUIFER

4. Location of point of diversion 1 WELL @ CENTER OF SW 1/4, S32 T97N R52W
(example - 3 wells in SW1/4 NE1/4 section 12-T104N-R53W)

County TURNER

5. County or counties where water will be used TURNER

6. Annual period during which water is to be used APRIL 1 - SEPTEMBER 30

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
NE of SW S32 T97N R52W	33		
SW of SW " "	30		
NW of SW " "	33		
SE of SW " "	30		

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

CENTER PIVOT IRRIGATION OF ABOVE LISTED PROPERTY, GREATER THAN STATUTORY DISCHARGE LIMIT REQUESTED DUE TO WINDSHIELD WIPER OPERATION OF IRRIGATOR.

I, Tim Wellenstein Owner/Operator, 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.

2015-10

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

Supplemental Information

(type or print)

1. Well Information (check one or both as applicable) ☒ Drilling new well(s) ☐ Using existing well(s)a) If new wells, how many _____ Have test holes been drilled ☐ Yes ☒ No Drilled by _____
(if yes, please provide copies of logs)

b) If existing wells, how many _____ Provide copy of log(s), if available. Drilled by _____

For either Existing or Proposed Wells:

c) Well Depth (required) 180 Depth to Top of Water Bearing Material 110 Depth to Water from Surface 60d) Distance to nearest domestic well on applicant's property N/A Property owned by others > 2500'**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)

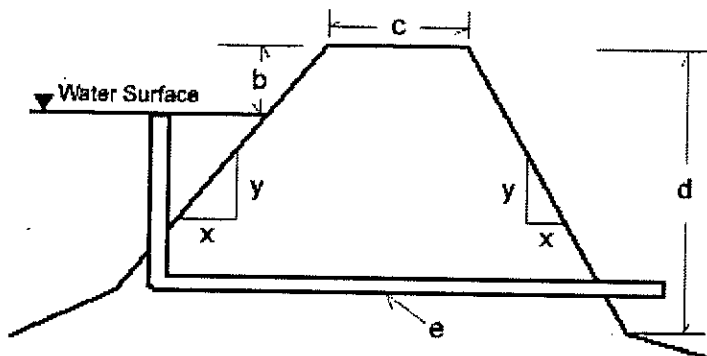
Upstream _____

Downstream _____

h) Surface Area of Impoundment _____

i) Storage _____ Acre Feet

j) Drainage Area Above Dam _____ Acres





TIM 605-261-9277

Project Name - Tim Wellenstein - Jorgensen East

Version Name - Tim Wellenstein - Jorgensen East_Version

Map Summary Report - Jorgensen East



— DRIVE UNITS — LARGEST POTENTIAL MACHINE — GUIDANCE PATH — END OF MACHINE — PRIMARY ENDGUN — SECONDARY ENDGUN — FIELD BOUNDARY

HEINE ELECTRIC & IRRIGATION - 307 S. Robinson Ave, Hartington, NE, 68739-5139, United States



Project Name - Tim Wellenstein - Jorgensen East
Version Name - Tim Wellenstein - Jorgensen East_Version
Map Summary Report - Jorgensen East



Field Name	Design Name	Machine Category	Machine Area (ac)	No. of Towers	Total Machine Length (ft)	Total Irrigated Area (ac)
Pivot_1_7152021124526247	Jorgensen East	Large Field Electrical Pivot 8000	107.8	6	1107.72	119.47

(Jorgensen East)	Spans and Overhang	Corner	Endgun*	Bender / DropSpan	Keep-Out
Irrigated Area using (ac)	107.68	0	11.79	0	0.00

* Estimated

Total Span Length (ft) 1069.60

Overhang Length (ft) 36.00

Flex/Transition/Other Lengths (ft) 2.12

S.No	Diameter	Length (ft)	Cable Size	Motor Options	Tire Size	Bender / DropSpan	Profile
1	6 5/8	184.80	12 ga cable / 11 cond shielded	34 RPM Baldor Helical	11.2 x 24 New Tubeless	None	Standard
2	6 5/8	184.80	12 ga cable / 11 cond shielded	34 RPM Baldor Helical	11.2 x 24 New Tubeless	None	Standard
3	6 5/8	180.00	12 ga cable / 11 cond shielded	34 RPM Baldor Helical	11.2 x 24 New Tubeless	None	Standard
4	6 5/8	180.00	12 ga cable / 11 cond shielded	34 RPM Baldor Helical	11.2 x 24 New Tubeless	None	Standard
5	6 5/8	180.00	12 ga cable / 11 cond shielded	34 RPM Baldor Helical	11.2 x 24 New Tubeless	None	Standard
6	6 5/8	160.00	12 ga cable / 11 cond shielded	34 RPM Baldor Helical	11.2 x 24 New Tubeless	None	Standard

Primary Endgun

Endgun Angles (Jorgensen East)	Endgun 1	Endgun 2	Endgun 3	Endgun 4
Start Angle	196.5 deg	285 deg	20 deg	102 deg
End Angle	244 deg	340 deg	70 deg	162.7 deg

Field Name	Latitude	Longitude	Pivot Road Angle	Pivot Road Offset	Start Angle	End Angle
Pivot_1_7152021124526247	43.174386424395	-97.01832616199	196.49 deg	-	196.49 deg	162.75 deg

Water Well Completion Reports



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Search

T097N R053W S36

T097N R052W S31

T097N R052W S32

T097N R052W S33

T096N R053W S01

T096N R052W S06

T096N R052W S05

T096N R052W S04

Genton
Well

TURKEY RIDGE CREEK

SD DENR | Esri, HERE, Garmin | Maxar

Streets

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RECEIPT

WATER RIGHTS PROGRAM

South Dakota Department of Agriculture and Natural Resources

Date February 24, 2022

RECEIVED OF Tim/Rebecca Wellenstein 29181 460th Ave., Centerville SD 57014

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

Fee for Application for Permit No. <u>8598-3</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>8598-3</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

ER



**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. 8598-3, Tim Wellenstein**

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. 8598-3, Tim Wellenstein, 29181 460th Street, Centerville SD 57014.

The Chief Engineer is recommending APPROVAL of Application No. 8598-3 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:

2. The well approved under Water Permit No. 8598-3 is located near domestic wells and other wells which may obtain water from the same aquifer. Water withdrawals shall be controlled so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.
3. The well authorized by Permit No. 8598-3 shall be constructed by a licensed well driller and construction of the well and installation of the pump shall 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.
4. 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
March 14, 2022

Report to the Chief Engineer
On Water Permit Application No. 8598-3

Tim Wellenstein

March 10, 2022

Water Permit Application No. 8598-3 proposes to appropriate water at a maximum instantaneous diversion rate of 1.78 cubic feet per second (cfs) from one well to be completed into the Upper Vermillion Missouri: South aquifer (approximately 180 feet deep) located in the approximate center of the SW ¼ of Section 32 for the irrigation of 126 acres located in the SW ¼ of Section 32; all in T97N-R52W. The site is located in Turner County approximately 3 miles east of Viborg, SD.

AQUIFER: Upper Vermillion Missouri: South (UVM:S)

HYDROGEOLOGY:

The Upper Vermillion Missouri aquifer is a buried glacial outwash aquifer composed of fine to coarse sand and gravel with possible intermixed layers of clay and till deposits (Holmes and Filipovic, 2015; Niehus, 1994). The sand and gravel were deposited from braided stream systems with multiple depositional events into a bedrock channel which generally trends north to south (Holmes and Filipovic, 2015). The glacial outwash deposits of the Upper Vermillion Missouri aquifer can overlie the Sioux Quartzite, Carlile Shale, or the Greenhorn Limestone in South Dakota (Holmes and Filipovic, 2015). The Upper Vermillion Missouri aquifer is overlain by till that can range in thickness from 0 to 160 feet (Holmes and Filipovic, 2015).

The Upper Vermillion Missouri aquifer is generally under confined conditions and overlain by till but can also be under water table conditions where the aquifer is near land surface (Lindgren and Hansen, 1993). On average, the Upper Vermillion Missouri aquifer is 68 feet thick with top of aquifer recorded as deep as 355 ft below land surface (Lindgren and Hansen., 1993). The Upper Vermillion Missouri aquifer underlies approximately 204,832 acres and contains approximately 1,037,400 acre-feet (ac-ft) of recoverable water in storage within Clay, Hutchinson, Lincoln, and Turner Counties (Buhler, 2014; Hedges et al., 1982). It should be noted that the amount of recoverable water in storage of the Upper Vermillion Missouri aquifer was estimated prior to the update of the aquifer and management unit boundaries delineated by Buhler in 2014 (Holmes and Filipovic, 2015). As a result of the updated approximate boundary of the aquifer, the estimated amount recoverable water in storage could vary.

The Upper Vermillion Missouri aquifer is composed of three management units. The proposed diversion point for Water Permit Application No. 8598-3 is completed into the South management unit of the Upper Vermillion Missouri aquifer. The direction of groundwater movement of the Upper Vermillion Missouri: South aquifer is commonly from north to south (Holmes and Filipovic, 2015). The areal extent of the Upper Vermillion Missouri: South aquifer is approximately 78,820 acres within Clay, Lincoln, and Turner Counties (Buhler, 2014). The

approximate areal extent of the Upper Vermillion Missouri aquifer and the location of the proposed diversion point is displayed in Figure 1.

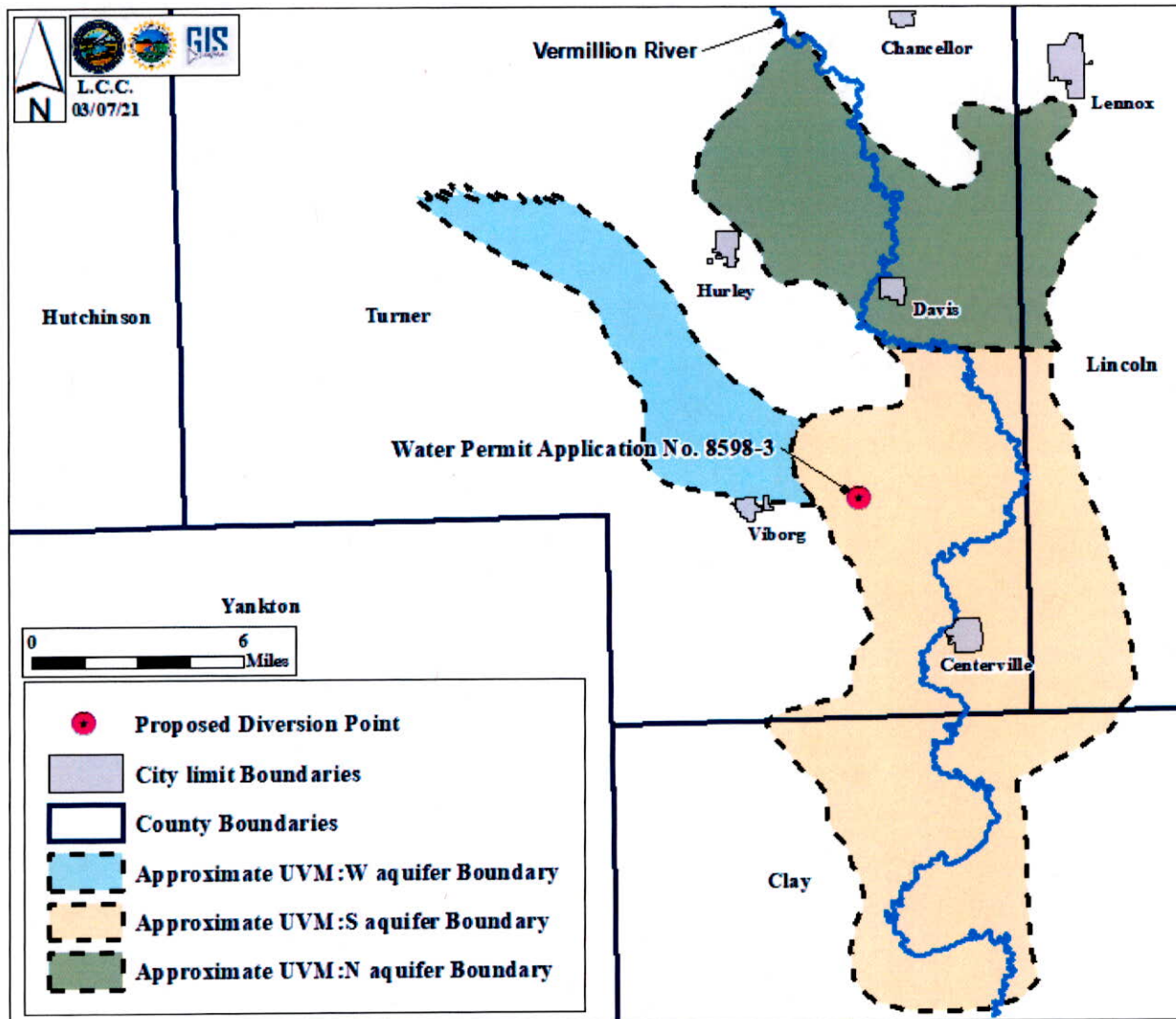


Figure 1: Map of the approximate areal extent of the Upper Vermillion Missouri aquifer including the three management units and the proposed diversion point location of Water Permit Application No. 8598-3 (Hedges et al., 1982; Water Rights, 2022b and 2022c).

A well completion report from a nearby irrigation well that is located approximately 1.6 miles southeast of the proposed diversion point was submitted previously from the applicant for Water Permit Application No. 8563-3. The report lists “topsoil” from 0 to 2 feet below land surface, “yellow clay” from 2 to 16 feet, “blue clay” from 16 to 46 feet, “sand gravel” from 46 to 50 feet, “blue clay” from 50 to 110 feet, “sand and gravel” from 110 to 158 feet, and “sand, gravel, and coal” from 158 to 180 feet. The static water level in the well was 60 feet below land surface at the time of well completion (October 1976). This indicates that there was approximately 50 feet of artesian head pressure at the time of well completion (Water Rights, 2022c). The Upper Vermillion Missouri: South aquifer is confined at the proposed diversion point based on the

submitted well completion report, water levels, and lithologic logs on file for nearby observation wells (SDGS, 2022; Water Rights, 2022b and 2022d).

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 Upper Vermillion Missouri: South aquifer.

WATER AVAILABILITY:

Water Permit Application No. 8598-3 proposes to appropriate water from the Upper Vermillion Missouri: South aquifer for irrigation. 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. However, an application may be approved for a water distribution system 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." The Upper Vermillion Missouri: South 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 Upper Vermillion Missouri: South aquifer must be considered.

HYDROLOGIC BUDGET:

Recharge

Recharge to the Upper Vermillion Missouri aquifer occurs at areas where the aquifer is in hydraulic connection with the Parker-Centerville aquifer, from fractures in the Sioux Quartzite, and direct infiltration of precipitation where the aquifer is near land surface (Lindgren and Hansen, 1990; Holmes and Filipovic, 2015). Although the Upper Vermillion Missouri aquifer is in contact with the Sioux Quartzite, the recharge potential to the aquifer from this source is likely limited (Buhler, 2014).

Recharge to the Upper Vermillion Missouri: South aquifer has yet to be quantified. However, Hedges and others (1985) estimated a recharge rate to the entirety of the Upper Vermillion Missouri aquifer using a regional flow-net analysis for the boundary that was delineated at the time. The recharge rate that was estimated for the Upper Vermillion Missouri aquifer was 0.25 inches per year (Hedges et al., 1985). When this recharge rate is applied to the approximate areal

extent of the South management unit of the Upper Vermillion Missouri aquifer, the estimated annual recharge is approximately 1,644 ac-ft/yr.

A more recent study of the Upper Vermillion Missouri aquifer was conducted by Buhler (2014) utilizing the current boundaries and water rights/permits within the three management units. This study estimated the groundwater outflow from the aquifer and its management units to conduct a regional flow-net analysis. The annual recharge to the South management unit of the Upper Vermillion Missouri aquifer was estimated to exceed the groundwater outflow by approximately 5,673 acre-feet (ac-ft) to 8,224 ac-ft/yr. Since the estimated inflow of groundwater or recharge rate to the Upper Vermillion Missouri: South aquifer has yet to be quantified, this estimate of the natural discharge from the South management unit is the best data available. When aquifer storage is stable, natural discharge from an aquifer represents the amount by which recharge exceeds withdrawals at the time of the estimate and therefore can serve as an estimate of water available for capture and appropriation.

Discharge

Discharge from the Upper Vermillion Missouri: South aquifer is primarily through well withdrawals and subsurface outflow into Clay County (Lindgren and Hansen, 1990). Currently, there are 89 water rights/permits authorized to appropriate water from the Upper Vermillion Missouri: South aquifer plus one pending application- Water Permit Application No. 8588-3 is estimated to use 80 ac-ft/yr (assuming an application rate of 0.5 feet per acre [ft/ac]) (Water Rights, 2022c). There are no future use permits reserving water from the Upper Vermillion Missouri: South aquifer presently.

The annual irrigation application rate to the Upper Vermillion Missouri: South was determined by Buhler (2014) by utilizing the water rights/permits that were appropriating water from the aquifer within the years 1979 to 2013. The application was to be 0.5 feet per permitted acre (Buhler, 2014). There have been an additional 34 water rights/permits approved to appropriate water from the Upper Vermillion Missouri: South aquifer since 2013 (Water Rights, 2022c). The additional 34 water rights/permits are estimated to irrigate an additional 3,611 acres (Water Rights, 2022c). Utilizing the application rate of 0.5 feet determined by Buhler (2014), an additional 1,805 ac-ft/yr of withdrawals is required to be accounted for from the Upper Vermillion Missouri: South aquifer. The 34 additional irrigation water rights/permits are shown in Table 1.

There are currently four non-irrigation permits (Permit Nos. 3905-3, 4204-3, 5898-3, and 5979-3) that appropriate water from the Upper Vermillion Missouri: South aquifer. The amount of water that can be withdrawn is estimated by assuming the non-irrigation water rights/permits limited by an annual volume will withdraw their entire appropriated volume every year. It is estimated that the non-irrigation water rights/permits limited only by a diversion rate will pump at their maximum permitted diversion rate for 60 percent of the time. Two municipal water rights (Water Right Nos. 4204-3 and 5898-3) held by the City of Centerville were identified as being connected to a rural water system and maintain their wells for standby purposes (Friedeman, 2020; Water Rights 2022c). Therefore, the annual amount of water use from these two permits is

assumed to be 0 ac-ft/yr. The Clay Rural Water System holds Water Right Nos. 3905-3 and 5979-3 and are authorized to appropriate 1,740 ac-ft/yr combined, assuming a 60 percent pump rate (Water Rights, 2022c). The annual authorized appropriation from these two permits were accounted for by Buhler (2014) in the Upper Vermillion Missouri aquifer analysis (Water Rights, 2022c).

Table 1: Approved water rights/permits that were not included in the Buhler (2014) report (Water Rights 2022a).

Permit No.	Name	Use	Status	Diversion Rate (cfs)	Permitted Acres
6811A-3	Jesse & Tanya Vandestroet	IRR	PE	1.78	115
6820A-3	Jesse & Tanya Vandestroet	IRR	PE	1.56	43
7383-3	Metabank	IRR	PE	0.56	25
7384-3	Nicholas & Courtney Blake	IRR	PE	0.56	80
7441-3	Jason or Alicia Knutson	IRR	PE	1.78	140
7442-3	Leah Johnson	IRR	PE	0	40
7466-3	Bethel Hagen Trust	IRR	PE	1.78	152
7467-3	Cleland Hagen Trust	IRR	PE	1.78	152
7603-3	Michael D Stevens	IRR	PE	1.78	120
7601-3	Michael D Stevens	IRR	PE	1.89	132
7600-3	Michael D Stevens	IRR	PE	3.56	180
7690-3	Tim or Dave Ostrem	IRR	PE	1.78	160
7693-3	Metabank	IRR	PE	0.67	27.7
7900-3	Leon Thompson	IRR	PE	1.89	136
7919-3	Larry & Marlene Erickson	IRR	PE	1.83	83.83
7945-3	Brad R or Linda R Trudeau	IRR	PE	1.78	60
7947-3	Leon, Holly & Jordan Rozeboom	IRR	PE	1.78	133.44
7948-3	Majestic Farms LLP	IRR	PE	1.78	55.02
7949-3	Jesse & Tanya Vandestroet	IRR	PE	1.78	100.9
7964-3	Paul, Mike & John Shubeck	IRR	PE	1.78	128
7976-3	Vasgaard Properties	IRR	PE	1.78	160
7990-3	Robert P Walsh	IRR	PE	2.44	240
7993-3	Jesse & Tanya Vandestroet	IRR	PE	1.11	53
7994-3	Metabank	IRR	PE	0	72
7995-3	Jesse & Tanya Vandestroet	IRR	PE	0	25
8007-3	Louis Latendresse	IRR	PE	1.67	150
8037-3	Tyler Andersen	IRR	PE	1.61	103
8070-3	Hansen Irrigated Farms LLC	IRR	PE	1.56	96
8071-3	Hansen Irrigated Farms LLC	IRR	PE	1.00	51
8072-3	Jesse & Tanya Vandestroet	IRR	PE	1.00	40
8469-3	Double A Farms LLC	IRR	PE	2.22	114
8470-3	Nicholas Blake	IRR	PE	1.78	160
8492-3	Tim or Kari Ostrem	IRR	PE	0.00	180
8542-3	Tyler Andersen	IRR	PE	1.61	103
IRR: Irrigation; LC: Licensed Water Permit; PE: Permitted Water Permit				TOTAL:	3,611

There are domestic wells completed into the Upper Vermillion Missouri: South aquifer that do not require a water right/permit, so the withdrawal amount from those wells is unknown (Water Rights, 2022d). Withdrawals from domestic wells on an average annual basis are not considered to be a significant portion of the hydrologic budget due to their relatively low diversion rates.

Additionally, with the development of rural water systems in areas where the Upper Vermillion Missouri: South aquifer is the uppermost aquifer available; it is likely some domestic users may have transitioned to rural water. Therefore, the quantity of water withdrawn by domestic wells is estimated to be negligible to the hydrologic budget for the Upper Vermillion Missouri: South aquifer.

Hydrologic Budget Summary

The natural discharge from the Upper Vermillion Missouri: South aquifer was estimated by Buhler (2014) to be approximately 5,637 ac-ft/yr in excess of withdrawals from the aquifer. This estimate was completed utilizing water rights/permits with priority dates of 2013 or older. There have been approximately 34 additional permits appropriating approximately 1,805 ac-ft/yr of additional water issued since then. Water Permit Application Nos. 8598-3 and 8588-3 (assuming an application rate of 0.5 ft/ac) is estimated to appropriate 143 ac-ft/yr from the Upper Vermillion Missouri: South aquifer (Water Rights, 2022c). The additional amount of water appropriated from the upper Vermilion Missouri: South aquifer does not surpass the natural discharge estimated by Buhler (2014). Therefore, there is a reasonable probability that unappropriated water is available for the appropriation proposed by this permit application.

OBSERVATION WELL DATA:

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

The DANR-Water Rights Program monitors nine observation wells completed into the Upper Vermillion Missouri: South aquifer (Water Rights, 2022b). These observation wells provide data on how the aquifer reacts to regional climatic conditions and local pumping. There are three observation wells within approximately three miles of the proposed diversion point. The closest observation well to the diversion point is observation well TU-80H (approximately 1.8 miles northwest). The hydrographs for these three observation wells are displayed in Figures 2 through 4 (Water Rights, 2022b).

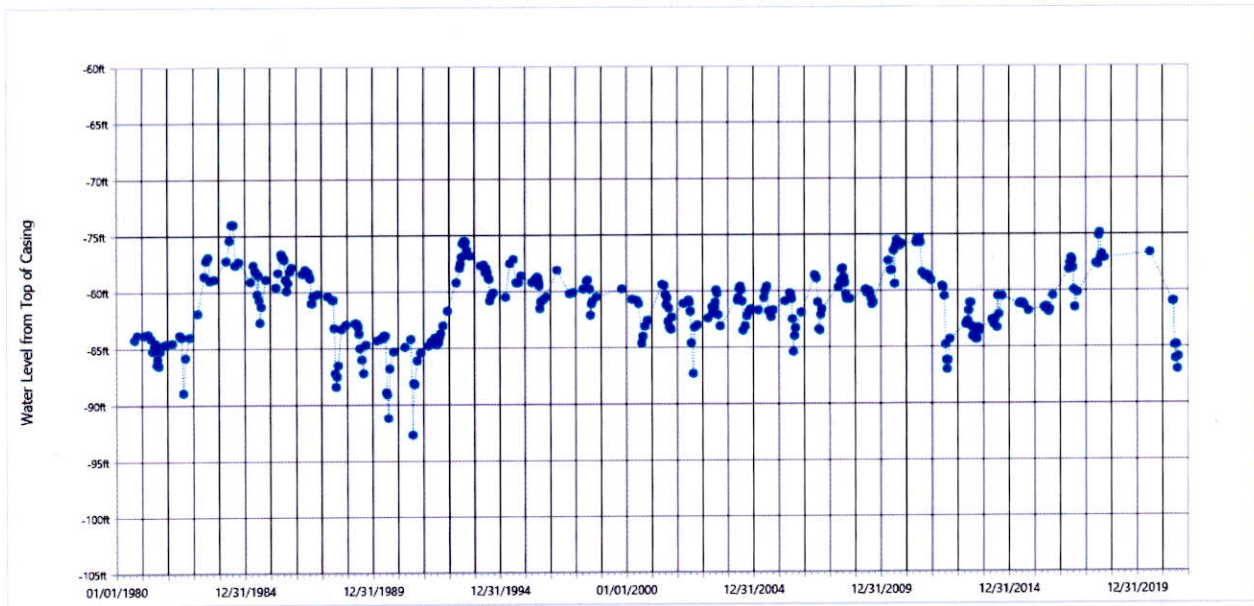


Figure 2: Hydrograph of the Upper Vermillion Missouri: South aquifer observation well TU-80H, located approximately 1.8 miles northwest of the proposed diversion point (Water Rights, 2022b).

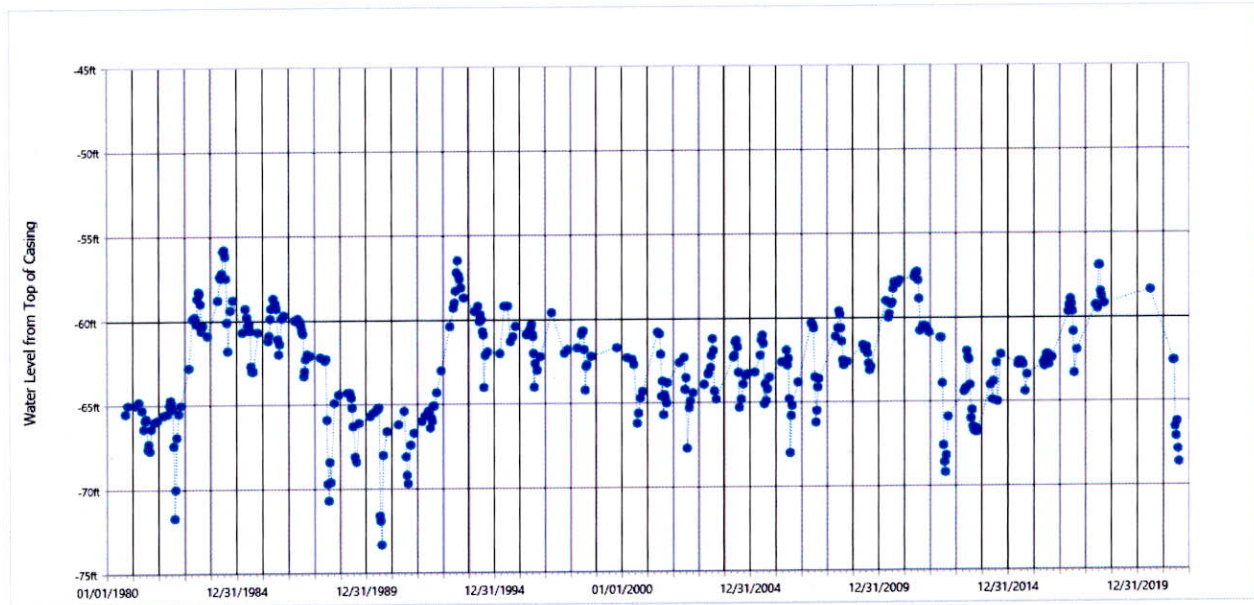


Figure 3: Hydrograph of the Upper Vermillion Missouri: South aquifer observation well TU-80I, located approximately 3 miles northeast of the proposed diversion point (Water Rights, 2022b).

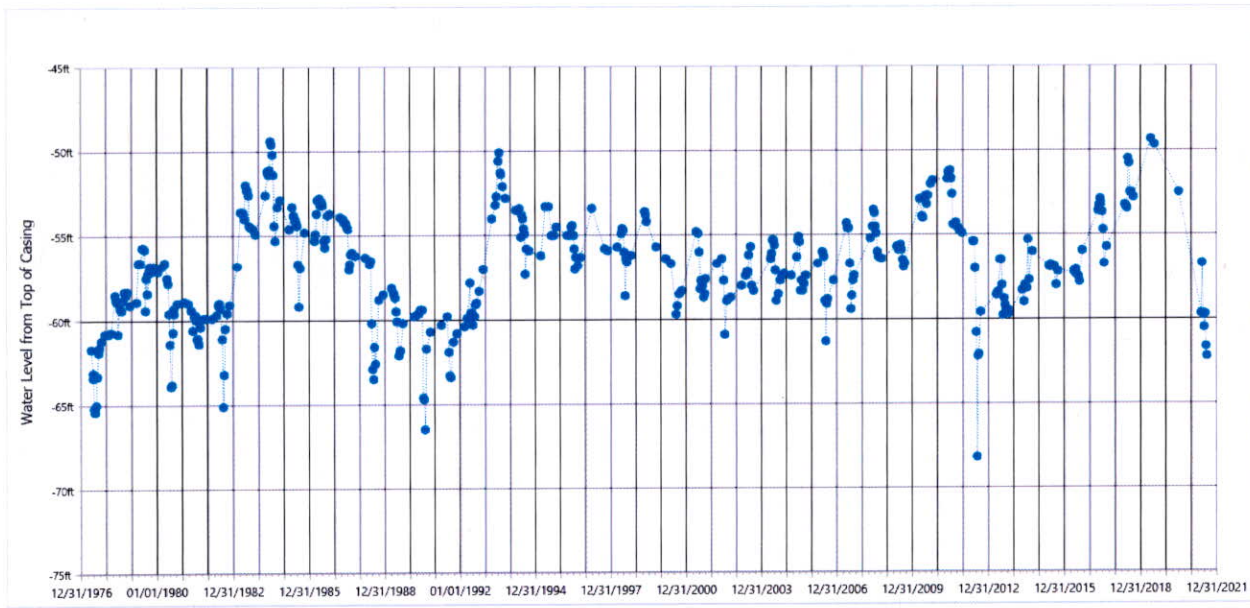


Figure 4: Hydrograph of the Upper Vermillion Missouri: South aquifer observation well TU-77M, located approximately 2.3 miles southeast of the proposed diversion point (Water Rights, 2022b).

The hydrographs for the observation wells display stable to increasing water levels over their respective periods of record. The hydrographs for the Upper Vermillion Missouri aquifer indicate that the aquifer responds well to climatic conditions because water levels are rising during wetter periods (early spring snowmelt and precipitation) and declining to a stable water level during drier periods. Additionally, the water levels in the observation wells display that the amount of recharge to and natural discharge from the aquifer greatly exceeds pumping with the aquifer returning to pre-pumping conditions between irrigation seasons. This recovery of the aquifer 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 Upper Vermillion Missouri: South 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 89 water rights/permits authorized to appropriate water from the Upper Vermillion Missouri: South aquifer, plus one pending application – Water Permit Application No. 8588-3. (Water Rights, 2022c). There are seven water rights/permits authorized to appropriate water from the Upper Vermillion Missouri: South aquifer within approximately three miles of the diversion point (Water Rights, 2022c). The seven water rights/permits are shown in Figure 5 and identified in Table 2. The nearest water right/permit (not held by the applicant) to the proposed diversion point completed into the Upper Vermillion Missouri: South aquifer is Water Right No. 3737-3 located approximately 1.2 miles northwest of the diversion point.

There are domestic wells on file with the DANR-Water Rights Program that are completed into the Upper Vermillion Missouri: South aquifer, with the closest domestic well on file (not held by

the applicant) approximately 1.1 miles southeast of the proposed diversion point (Water Rights, 2022d). There could potentially be other domestic wells completed into the Upper Vermillion Missouri: South aquifer near the proposed diversion point that are not on file with the DANR-Water Rights Program.

Table 2: Water rights/permits from the Upper Vermillion Missouri: South aquifer within approximately 3 miles of the diversion point (Water Rights, 2022c).

Permit No.	Name	Use	Status	Rate (cfs)	Acres
2269-3	Travis Wiese	IRR	LC	2.44	188
2941-3	Russell D Austin	IRR	LC	1.11	140
3409-3	Virgil L Null	IRR	LC	1.88	136
3646-3	Steven R Null	IRR	LC	2	144
3737-3	William M Jenter	IRR	LC	4.57	320
7603-3	Michael D Stevens	IRR	PE	1.78	120
7601-3	Michael D Stevens	IRR	PE	1.89	132
IRR: Irrigation					
LC: Licensed Water Permit; PE: Permitted Water Permit					

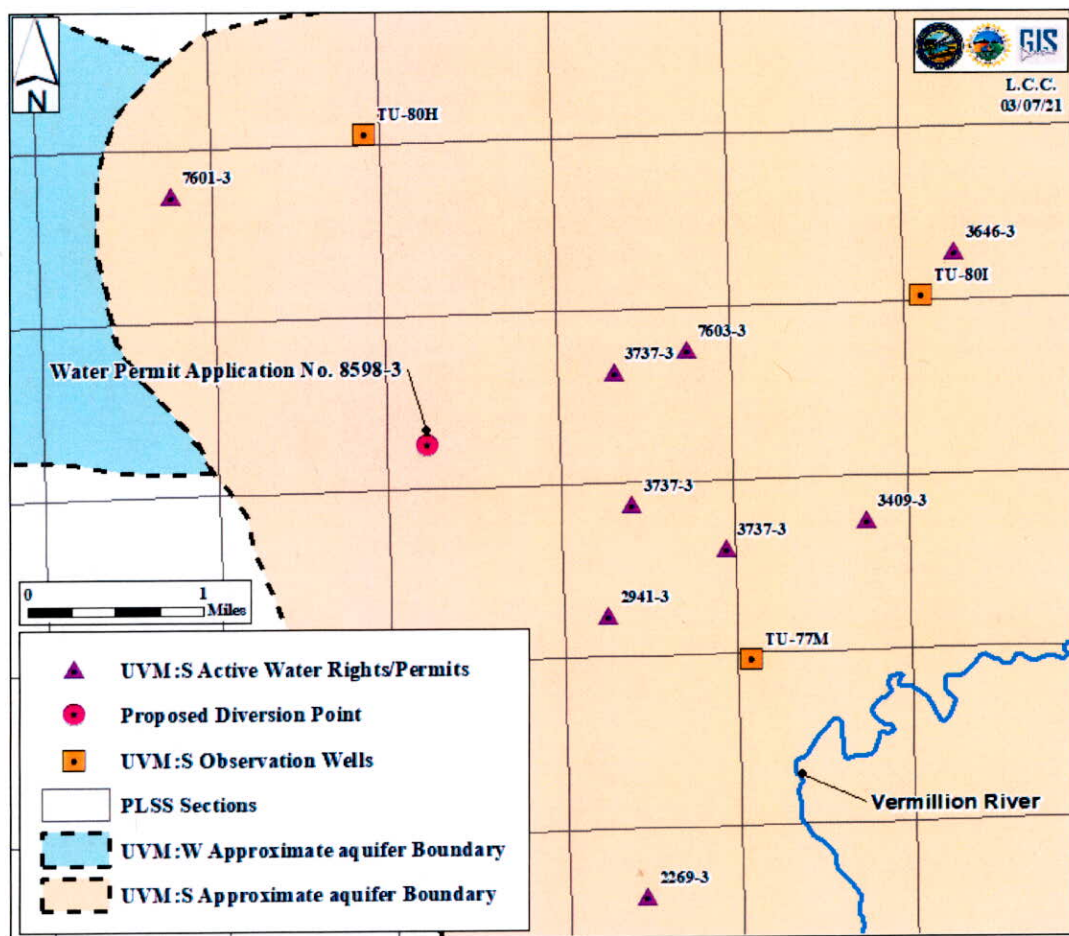


Figure 5: Map of the site location of Water Right Permit Application No. 8598-3, nearby observation wells, and nearby water rights/permits completed into the Upper Vermillion Missouri: South aquifer (Water Rights, 2022b and 2022c).

The Upper Vermillion Missouri: South aquifer is generally under confined conditions in Turner County (SDGS, 2022; Water Rights, 2022c and 2022d). The proposed diversion point is expected to be under confined conditions based on the submitted well completion report, water levels, and lithologic logs on file for the nearby observation wells (Water Rights, 2022d). Observation well data (see Figures 2 through 4) documents minimal drawdown from withdrawals of existing wells near the diversion point. Therefore, pumping from the diversion point is not expected to significantly lower water levels within the aquifer. 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 cannot be known without an aquifer performance test. In Turner County, there have been no complaints submitted to the DANR-Water Rights Program regarding potential well interference for adequate wells completed into the Upper Vermillion Missouri: South aquifer (Water Rights, 2022e).

Within approximately four miles of the diversion point for this application, the Upper Vermillion Missouri: South aquifer has saturated aquifer thickness ranging from approximately 25 to 59 feet, with the depth to the top of aquifer materials ranging from approximately 98 to 154 feet below land surface, and static water levels at well completion varying from approximately 57 to 78 feet below land surface (SDGS, 2022; Water Rights 2022b and 2022d). This would allow for sufficient saturated 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).

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:

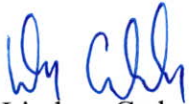
“A well in which the pump intake was set at least 20 feet below the top of the aquifer at the time of construction or, if the aquifer is less than 20 feet thick, is as near to the bottom of the aquifer as is practical and the water level of the aquifer has declined to a level that the pump will no longer 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 Upper Vermillion Missouri: South 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 saturated thickness of the aquifer, the amount of artesian head pressure in observation wells, and appropriative user's wells completed into the Upper Vermillion Missouri: South aquifer, 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.

CONCLUSIONS:

1. Water Permit Application No. 8598-3 proposes to appropriate water at a maximum instantaneous diversion rate of 1.78 cfs from one well to be completed into the Upper Vermillion Missouri: South aquifer to irrigate 126 acres. The site is located in Turner County approximately 3 miles east of Viborg, SD.
2. There is a reasonable probability that unappropriated water is available from the Upper Vermillion Missouri: South aquifer for this proposed appropriation based on the hydrological budget and observation well data.
3. There is a reasonable probability this diversion will not unlawfully impair adequate wells authorized by existing water rights or domestic use wells.



Lindsey Cederberg
Natural Resources Engineer I
SD DANR - Water Rights Program

Reviewed by:



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

References

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- Water Rights, 2022b. Observation Well Data, SD DANR-Water Rights Program, Joe Foss Bldg, Pierre, SD.
- Water Rights, 2022c. Water Right/Permit Files, SD DANR-Water Rights Program, Joe Foss Bldg, Pierre, SD.
- Water Rights, 2022d. Well Completion Reports, SD DANR-Water Rights Program, Joe Foss Bldg, Pierre, SD.
- Water Rights, 2022e. County Files, SD DANR-Water Rights Program, Joe Foss Bldg, Pierre, SD.

Schlaak, Karen

From: Schlaak, Karen
Sent: Friday, March 18, 2022 9:22 AM
To: timwellenstein83@gmail.com
Subject: Water Permit Application No. 8598-3
Attachments: 3095.pdf

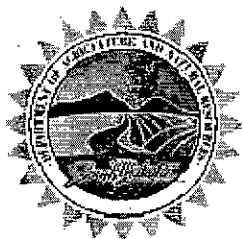
Attached is a copy of the report, chief engineer recommendation and information regarding the public notice for your water permit application. As stated in the letter, please contact the paper(s) as soon as possible to authorize publication and arrange for payment. This information is being mailed to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

Karen Schlaak

DANR - Water Rights Program

(605) 773-3352

Website: <https://danr.sd.gov>



RECEIVED

APR 04 2022

WATER RIGHTS
PROGRAM

AFFIDAVIT OF PUBLICATION

STATE OF SOUTH DAKOTA)

:SS

COUNTY OF TURNER)

Allyson Hill, being first duly sworn, on oath says the CEN-
TERVILLE JOURNAL is a WEEKLY newspaper published in CEN-
TERVILLE in said county of TURNER, State of South Dakota; and
that she is authorized to and does make this affidavit on behalf of said
CENTERVILLE JOURNAL; that affiant has personal knowledge of all
facts stated in this affidavit; that said newspaper is a legal newspaper
as defined by SDCL 17-2-2.1 through 17-2-2.4 inclusive as amended,
has a bona fide circulation of at least two hundred copies WEEKLY,
has been published in the English language within said county and has
been admitted to the United States mail under the second class mailing
privilege, for at last one year continuously next prior to the publication
of the notice herein mentioned and was and is printed wholly or in part
in an office maintained at said place of publication; that said notice,
a printed copy of which taken from the paper in which the same was
published is hereto attached and is made part of this affidavit, was
published in said newspaper

1 time(s) as follows: that the first publication of said

notice in said newspaper aforesaid was on Thursday

the 31 day of March, 2022,

and that the succeeding publications were severally

on Thursday, the ____ day of _____, 2022;

on Thursday, the ____ day of _____, 2022;

on Thursday, the ____ day of _____, 2022;

on Thursday, the ____ day of _____, 2022;

Affiant further says that the full amount of the fees charged
for the publication of said notice inures to the benefit of the publishers
of said newspaper; that no agreement of understanding for the division
thereof has been made with any other person, that no part therefore has
been agreed to be paid to any person whomsoever; and that the fees
charged for the publication thereof are:

DOLLARS (\$ 33.66)

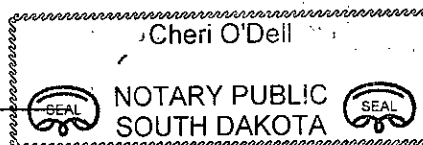
(x) Allyson Hill, Allyson Hill

Subscribed and sworn to before me this 31st day of

March, 2022

Cheri O'Dell
Notary Public

My commission expires 03/12/2025.



**NOTICE OF
APPLICATION NO.
8598-3 to Appropriate
Water**

Notice is given that Tim Wellenstein, 29181 460th St, Centerville SD 57014 has filed an application for a water permit to appropriate 1.78 cubic feet of water per second from one well to be completed into the Upper Vermillion Missouri:South Aquifer (approximately 180 feet deep) located in the center of the SW 1/4 Section 32 for irrigation of 126 acres located in the SW 1/4 Section 32; all in T97N-R52W. This site is located approximately 3 miles east of Viborg SD.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends AP-

PROVAL of Application No. 8598-3 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 April 11, 2022.

The petition shall include a statement describing the unique in-

jury 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 April 11, 2022.

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 \$33.66

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Argus Leader

P.O. Box 677349, Dallas, TX 75267-7349

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WATER RIGHTS
PROGRAM

Account No.: 6052619277TIMW

Ad No.: 0005181192

PO #: 8598-3

Lines: 146

Ad Total: \$47.86

TIM WELLENSTEIN
29181 460TH AVE
CENTERVILLE, SD 57014

This is not an invoice

of Affidavits: 1

Account No.: 6052619277TIMW

Ad No.: 0005181192

Argus Leader AFFIDAVIT OF PUBLICATION

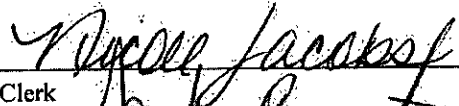
State of Wisconsin

County of Brown

I being duly sworn, says: That The Argus Leader is, and during all the times hereinafter mentioned was, a daily legal newspaper published at Sioux Falls, Minnehaha County, South Dakota; that affiant is and during all of said times, was an employee of the publisher of such newspaper and has personal knowledge of the facts stated in this affidavit; that the notice, order or advertisement, a printed copy of which is hereto attached, was published in said newspaper issue(s):

Thursday, March 31, 2022

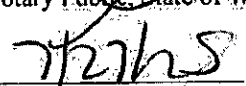
Sworn to and subscribed before me this 12 day of April, 2022.



Legal Clerk



Notary Public, State of Wisconsin, County of Brown



My Commission expires

SARAH BERTELSEN
Notary Public
State of Wisconsin

**NOTICE OF
APPLICATION NO. 8598-3
to Appropriate Water**

Notice is given that Tim Wollenstein, 29181 460th St, Centerville SD 57014 has filed an application for a water permit to appropriate 1.78 cubic feet of water per second from one well to be completed into the Upper Vermillion Missouri South Aquifer (approximately 180 feet deep) located in the center of the SW 1/4 Section 32 for irrigation of 126 acres located in the SW 1/4 Section 32; all in T97N-R52W. This site is located approximately 3 miles east of Viborg SD. Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 8598-3 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://dwr.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://dwr.sd.gov/public> or by contacting the Chief Engineer. The Chief Engineer's address is "Water Rights Program, Post 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 April 11, 2022.

The petition shall include a statement describing the unique injury upon approval of the application on the petition, 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://dwr.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 com-

menter a party of record or a participant in any hearing that may be held. Any comment must be filed by April 30, 2022.

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 \$47.86
5181192 Mar 31, 2022

Schlaak, Karen

From: Schlaak, Karen
Sent: Friday, March 18, 2022 8:35 AM
To: 'legals@argusleader.com'
Subject: 8598-3, Tim Wellenstein
Attachments: 8598-3public.short_final.docx; FORM8.FRM.doc

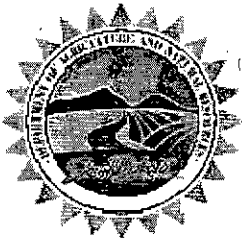
Attached is a notice to be published on March 31, 2022.

Tim Wellenstein, 29181 460th St, Centerville SD. 57014 (605 261-9277) 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, Pierre SD 57501.

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

Karen Schlaak
DANR - Water Rights Program
(605) 773-3352
Website: <https://danr.sd.gov>



Schlaak, Karen

From: Schlaak, Karen
Sent: Friday, March 18, 2022 8:34 AM
To: 'journal@iw.net'
Subject: 8598-3, Tim Wellenstein
Attachments: 8598-3public.short_final.docx; FORM8.FRM.doc

Attached is a notice to be published on March 31, 2022.

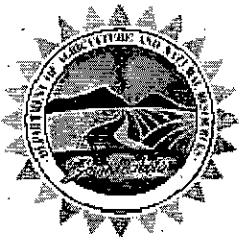
Tim Wellenstein, 29181 460th St, Centerville SD 57014 (605 261-9277) has been notified to contact you to authorize publication and arrange for payment.

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Karen Schlaak

DANR - Water Rights Program
(605) 773-3352
Website: <https://danr.sd.gov>





**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.**

March 18, 2022

Tim Wellenstein
29181 460th St
Centerville SD 57014

Dear Mr. Wellenstein:

Water Permit Application No. 8598-3 for irrigation use have been examined and found to comply with the South Dakota Water Laws and applicable rules. A notice has been sent to the Centerville Journal printed at Centerville (Ph # 605 563-2351) and the Argus Leader printed at Sioux Falls (Ph # 605 331-2200). 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,

Karen Schlaak

Karen Schlaak
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. 8598-3 to Appropriate Water

Notice is given that Tim Wellenstein, 29181 460th St, Centerville SD 57014 has filed an application for a water permit to appropriate 1.78 cubic feet of water per second from one well to be completed into the Upper Vermillion Missouri:South Aquifer (approximately 180 feet deep) located in the center of the SW 1/4 Section 32 for irrigation of 126 acres located in the SW 1/4 Section 32; all in T97N-R52W. This site is located approximately 3 miles east of Viborg SD.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 8598-3 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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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 April 11, 2022.

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 _



**DEPARTMENT of AGRICULTURE
and NATURAL RESOURCES**

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

APR 28 2022

Tim Wellenstein
29181 460th Ave
Centerville SD 57014

Dear Mr. Wellenstein:

Enclosed is Water Permit No. 8598-3 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.

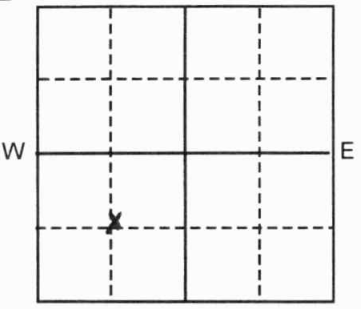
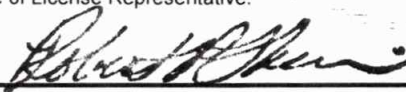
Sincerely,

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

enclosures

SOUTH DAKOTA WATER WELL COMPLETION REPORT

11-02

Location NE ¼ SW ¼ Sec 32 Twp 97 Rg 52	Well Owner: Tim Wellenstein
County Turner North	Business Name:
Please mark well location with an "X"	Address: 29181 460th Ave
	City, State, Zip: Centerville SD 57014
Well Completion Date October 7, 2022	
Distance to nearest potential pollution source (septic tank, abandoned well, feed lot, etc.)? 1,000.0 ft. from septic (identify source)	
PROPOSED USE: ☐ Domestic/Stock ☐ Municipal ☐ Business ☐ Test holes ☒ Irrigation ☐ Industrial ☐ Institutional ☐ Monitoring well	
METHOD OF DRILLING: Mud rotary	
CASING DATA: ☐ Steel ☒ Plastic ☐ Other If other describe _____	WELL LOG: FORMATION DEPTH FROM TO
PIPEWEIGHT DIAMETER FROM TO HOLE DIAMETER SDR#1 LB/FT 12.00 IN 0.0 FT 108.0 FT 17.75 IN LB/FT IN FT FT IN LB/FT IN FT FT IN	See attached log
GROUTING DATA: Grout Type No. of Sacks Grout Weight From To Bentonite 32 Lb/gal 0.0 Ft 103.0 Ft Lb/gal Ft Ft	STATIC WATER LEVEL 68.7 FEET If flowing: closed in pressure PSI GPM flow through Inch pipe Controlled by ☐ Valve ☐ Reducers ☐ Other Reduced flow rate GPM Can well be completely shut in?
SCREEN: ☐ Perforated pipe ☒ Manufactured Diameter 12.00 Inches Length 80.0 Feet Material Stainless steel Slot Size .040 Set From 108.0 Feet to 188.0 Feet Other information	WELL TEST DATA: ☒ Pumped Describe: Test pumped ☐ Bailed ☐ Other Pumping Level Below Land Surface 78.0 Ft. After 4.0 Hrs. pumped 800.0 GPM Ft. After Hrs. pumped GPM If pump installed, pump rate: GPM
REMARKS GPS: N43 10.4580 W97 1.0960	
DISINFECTION: Was well disinfected upon completion? ☐ Yes, How? ☒ No, Why Not? Irrigation only Lab to which water quality sample sent for analysis	This well was drilled under license # 475 and this report is true and accurate. Drilling firm: THEIN WELL COMPANY, INCORPORATED Signature of License Representative:  Signature of Well Owner or Equitable Property Holder: Date:

Tim Wellenstein 188' Irrigation Well 2022

Sec 32 T 97 R 52 Viborg SD

Formation	From	To
Top Soil	0	3
Clay Brown	3	24
Clay Grey	24	27
Clay Blue	27	51
Gravel	51	53
Clay Blue	53	58
Sand	58	60
Clay Blue	60	106
Gravel & Sand	106	157
Sand & Gravel (More Consolidated)	157	180
Gravel	180	187
Clay W/ Sand Layers	187	198

TIM WELLENSTEIN

188' Irrigation Well

Legend

Feature 1

188' IRRIGATION WELL
n43 10.4580 w97 1.0960

