

WATER PERMIT NO. 2781-2

Name of Applicant: Under Canvas Inc.

Address: 1172 Happy Lane, Belgrade MT 59714

Phone: 605 232-6093

Amount of Water Claimed: 0.033 cfs (15 gpm)

Total Acres: NA

Source of Water Supply: groundwater – one well

Water to be used for: commercial

County: Pennington

Type of Waste Disposal System:

Location: 1 mile southeast of Keystone

PRIORITY

Date Received: 2-9-18

Application/License Fee: \$ 300

Corrected Application Received:

Period of Annual Use: Jan 1 – Dec 31

Remarks:

Diversion Point: NW 1/4 SW 1/4 Sec 16-T2S-R6E

Land to be Irrigated: NA

Depth of Well: 500 feet deep

Well Driller: Alexander Drilling Inc.

Remarks:

Type of Map: topo

Prepared by:

Reviewed and the Number Assigned on: XX

By: **Karen Schlaak**

Notice of Hearing - date to intervene: _____

	⊗		16		

Mail to: DENR - Water Rights 523 E Capitol Ave Pierre, SD 57501-3182 ph. (605) 773-3352	No. <u>2781-2</u>	(office use only) Hydrologic Unit <u>10120109</u>
	Basin <u>Upper Cheyenne</u>	
	Newspaper <u>Rapid City Journal</u>	

RECEIVED
FEB 09 2018
WATER RIGHTS
PROGRAM

Application For Permit To Appropriate Water Within The State Of South Dakota

Check use(s) of water:

☐ Municipal	☐ Water Distribution System	☐ Recreational	☐ Institutional
☐ Rural Water System	☒ Commercial	☐ Fish & Wildlife	☐ Geothermal
☐ Domestic (over 18 gpm)	☐ Industrial	☐ Other _____	

Type of Application: (check one)

☒ New	☐ Vested Right (Use predates Mar 2, 1955)	☐ Future Use Reservation
☐ Place to Beneficial Use Water Reserved by Future Use Permit No. _____		
☐ Amendment/Correction to Permit No. _____		

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

1. Name to Appear on Water Permit Under Canvas, Inc. c/o Jeremy Budge
Mailing Address 1172 Happy Lane Belgrade MT 59714
(Address) (City) (State) (Zip Code)
Phone 888-494-1148 Mobile 607 232 6093 Email jeremy@undercanvas.com

2. Amount of water claimed 0.033 *CFS or 15 **GPM and 8.0 ***AF or _____ Gallons
Flow rate and volume are both required. (*Cubic Feet per Second) (**Gallons per Minute) (***Acre Feet - storage capacity of dam/dugout or annual use)

3. Source of water supply Ground water well

4. Location of point of diversion 1 well in NW1/4SW1/4 section 16-T2S-R6E County Pennington
(example - 3 wells in SW1/4 NE1/4 section 12-T104N-R53W)

If not a public water supply (e.g. municipal), will water be used outside of the area described above? ☒ Yes ☐ No

If "Yes," where will water be used? GL 6; SE1/4NW1/4; N1/2SW1/4; section 16-T2S-R6E
(example - NW1/4 section 12-T104N-R53W)

5. County or counties where water will be used Pennington

6. Annual period during which water is to be used January 1 - December 31

7. Give a description of the project. When available include any preliminary engineering report or other reports or information that will help explain the project. (Attach sheet if more space is needed)

Water is to be used for a luxury campground as described on the attached Conditional Use Permit Report (CU17-43) and Conditional Use Permit Application. The permit is for operations between February and December each year. On site wastewater treatment is proposed for the camp.

I, William H. Anderson [Signature] Agent _____, 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.

**SOUTH DAKOTA
WATER PERMIT NO. 2781-2**

Date of first receipt of application February 9, 2018.

The Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 2781-2 to Under Canvas, Inc., c/o Jeremy Budge, 1172 Happy Lane, Belgrade MT 59714 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. 2781-2 appropriates 8 acre-feet of water annually at a maximum pump rate of 0.033 cubic feet of water per second from one well completed into the Crystalline Rock (500 feet deep) located in the NW 1/4 SW 1/4 for commercial use in Gov't Lot 6, SE 1/4 NW 1/4 and N 1/2 SW 1/4 all in Section 16-T2S-R6E. This site is located approximately 1 mile southeast of Keystone SD.
2. The water appropriated shall be used for the purpose of commercial 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: January 1 – December 31.
4. The date of approval of Permit No. 2781-2 is April 30, 2018.
5. The date from which applicant may claim right is February 9, 2018.
6. One-fifth of the construction is to be completed on or before October 30, 2020.
7. All construction is to be completed on or before April 30, 2023.
8. Water is to be put to beneficial use on or before April 30, 2027.
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 this Permit will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner under this Permit shall control his 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 Permit holder shall report to the Chief Engineer annually the amount of water withdrawn from the Crystalline Rock aquifer.
3. Water Permit No. 2781-2 authorizes a total annual diversion of 8.0 acre foot of water

WATER MANAGEMENT BOARD

By: 
Jeanne Goodman, Chief Engineer
Water Rights Program
Department of Environment and Natural Resources

MAY 08 2018
date



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 1 Have test holes been drilled ☒ Yes ☐ No Drilled by ALEXANDER DRILLING, INC.
(if yes, please provide copies of logs)

b) If existing wells, how many 1 Provide copy of log(s), if available. Drilled by ALEXANDER DRILLING, INC.

For either Existing or Proposed Wells:

c) Well Depth (required) 500' Depth to Top of Water Bearing Material 135 Depth to Water from Surface 30

d) Distance to nearest domestic well on applicant's property 2008 feet Property owned by others 1800 feet

2. Wastewater Disposal System Information

a) Type of System (i.e. septic tank, drain field) On site Septic Tanks and Drain Fields, See attached site plan

b) System Capacity (gallons) 7,075.00 Year Constructed 2018

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)

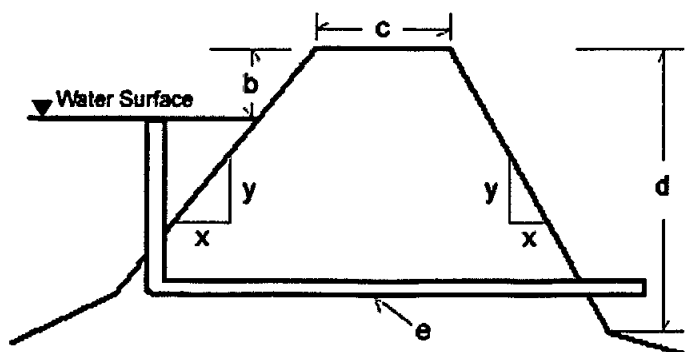
Upstream _____

Downstream _____

h) Surface Area of Impoundment _____

i) Storage _____ Acre Feet

j) Drainage Area Above Dam _____ Acres





RUSHMORE UNDER CANVAS

Attention Pennington County:

Please find attached summary with wastewater flows, tank sizing, and calculations for each of the five disposal areas for Rushmore Under Canvas.

Wastewater treatment component summary:

1. Disposal areas 1 to 4 are proposed to be gravity and disposal area 5 is pressure dosed.
2. All disposal fields will be chambers.
3. Percolation Rates were between 21 to 25 minutes/Inch. Use 25 minutes/inch for absorption area design, (74:53:01:31), $\text{Area} = (Q \cdot v25)/5$.
4. Septic Tanks are to have an Orenco 8" Bio-tube filter or equal prior to the disposal area.
5. Food preparation kitchen shall have a Big-Dipper grease trap or equal.
6. Wastewater System design is to meet or exceed Chapter 74:53:01, INDIVIDUAL AND SMALL ON-SITE WASTEWATER SYSTEMS.

The wastewater system are being installed by, Dan Sagdalen, a licensed installer. Dan has completed test pit and percolation rates for the disposal areas. The test pits were inspected by Pennington County Health Staff and found satisfactory.

Finalized wastewater and water supply plans are in process for approval by Pennington County and The State of South Dakota as soon as possible.

Marlene Sadjae, P.E.

and

Bill Anderson, P.E.

Anderson Engineering, Inc.

bill@andersonmontana.com

406 925 0590 cell

Water Supply and Wastewater:

Water Supply designs and documents for the Public Water Supply (PWS) will be submitted for agency approvals. The PWS is classified as a Transient Non- Community water system. Preliminary analysis of water use is based on the following table.

Rushmore Under Canvas, Estimated Water & Wastewater Capacity & Treatment:

<u>Proposed Uses:</u>	<u>Design GPD:</u>	<u>Unit per</u>	<u># of Units</u>	<u>GPD</u>	<u>Notes</u>
Tent 80 ea., Occupancy 2.5/Tent	20 Person		200	4000	20gpd/camper
Employees	15 Person		25	375	15gpd/employee
Laundry Facility	600 Machine		2	1200	600gpd/machine
Food Preparation, Café	5 Service		300	1500	5.0gpd/service
Total Wastewater Use				7075	Propose 5 disposal areas<2000gpd

Based on this analysis the water source will need to be developed to supply an average demand of 7100 gallons per day (GPD). The proposed source well should be developed to supply 10 to 20 gallons per minute (gpm). If the test well is not successful, then Under Canvas will consider purchasing water from a licensed hauler.

Wastewater treatment system capacity has been preliminarily designed with Dan Sagdalen (Hill Construction) for five deposal areas located where there are acceptable soils and to allow for gravity wastewater collection and disposal.

Preliminary test pits and soils information has been completed and is indicative that the disposal areas are viable. The percolation rates were between 21 and 25 minutes per inch. The following table was calculated based on the slower percolation rate with no reductions for infiltration chambers or other considerations.

The table has been completed in consideration of the viability of an onsite wastewater disposal system. Disposal Area 1 has been split between wastewater coming from tents and the laundry facility. The laundry facility has a different wastewater characteristic than the tents; however it will be treated as black water for disposal purposes.

Disposal Area 1	Design GPD:	Unit per	# of Units	GPD	Estimated Disposal Area	Septic Tank Capacity
<i>Disposal Area 1A</i>						
Tent 17 ea., Occupancy 2.5/Tent Employees	20 Person		42.5	850		1.5*850=1275 gallons
Food Preparation, Café	15 Person		0	0		
	5 Service		0	0		
Total Wastewater Area 1				850	850ft²» Use 4 - 100' laterals	Use 2-1500 gal tanks
<i>Disposal Area 1B</i>						
Laundry Facility	600 Machines		2	1200	1200ft ² » Use 4 - 100' laterals	Use 1-2500 gal tank
Disposal Area 2	Design GPD:	Unit per	# of Units	GPD	Estimated Disposal Area	Septic Tank Capacity
Tent 21 ea., Occupancy 2.5/Tent Employees	20 Person		52.5	1050		1.5*1050=1575 gallons
Food Preparation, Café	15 Person		10	150		1.5*150=225 gallons
	5 Service		0	0		
Total Wastewater Area 2				1200	1200ft²» Use 4 - 100' laterals	Use 2-1500 gal tanks
Disposal Area 3	Design GPD:	Unit per	# of Units	GPD	Estimated Disposal Area	Septic Tank Capacity
Tent 18 ea., Occupancy 2.5/Tent Employees	20 Person		45	900		1.5*900= 1350 gallons
Food Preparation, Café	15 Person		0	0		Use 2 standard tanks
	5 Service		0	0		Use 1 tank Pump Vault, 5 tents
Total Wastewater Area 3				900	900ft²» Use 3 - 100' laterals	Use 3-1000 gal tanks
Disposal Area 4	Design GPD:	Unit per	# of Units	GPD	Estimated Disposal Area	Septic Tank Capacity
Tent 22 ea., Occupancy 2.5/Tent Employees	20 Person		55	1100		1.5*1100=1650 gallons
Food Preparation, Café	15 Person		0	0		
	5 Service		0	0		
Total Wastewater Area 4				1100	1100ft²» Use 4 - 100' laterals	Use 3-1500 gal tanks
Disposal Area 5	Design GPD:	Unit per	# of Units	GPD	Estimated Disposal Area	Septic Tank Capacity
Tent 2 ea., Occupancy 2.5/Tent Employees	20 Person		5	100		1.5*225=337.5 gallons
Food Preparation, Café	15 Person		15	225		1,125+0.75*1500=2250 gallons
	5 Service		300	1500		
Total Wastewater Area 5				1825	1825ft²» Use 7 - 100' laterals, dosed	Use 2-2500 gal tanks

Notes:

- 1) Percolation Rates were between 21 to 25 minutes/Inch. Use 25 minutes/inch for absorption area, (74:53:01:31), Area=(Q*/25)/5.
- 2) Disposal area 5 is to pressure dosed.
- 3) Septic Tanks are to have an Orenco 8" Bio-tube filter or equal prior to the disposal area.
- 4) Food preparation kitchen shall have a Big-Dipper grease trap or equal.
- 5) Wastewater System design is to meet or exceed Chapter 74:53:01, INDIVIDUAL AND SMALL ON-SITE WASTEWATER SYSTEMS.

Under Canvas, Inc. has come to the conclusion that a viable water supply and wastewater system can be permitted and completed for the project.

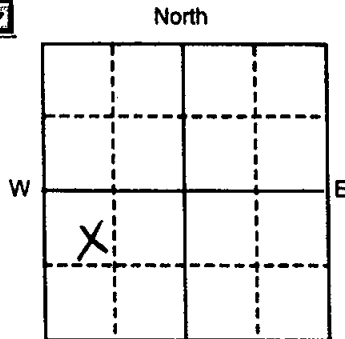
SOUTH DAKOTA WATER WELL COMPLETION REPORT

11-02

Location NW ¼ SW ¼ Sec 16 Twp 2S Rg 6E

County Pennington

Please mark well location with an "X"



Well Completion Date

1-26-2018

1 Mile

Distance to nearest potential pollution source (septic tank, abandoned well, feed lot, etc.)?
500 ft. from septic (Identify source)

PROPOSED USE:

☒ Domestic/Stock ☐ Municipal ☐ Business ☐ Test holes
☐ Irrigation ☐ Industrial ☐ Institutional ☐ Monitoring well

METHOD OF DRILLING:

Rotary downhole hammer

CASING DATA:

☐ Steel ☒ Plastic ☐ Other

If other describe 40' of 6" 160 PVC

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
LB/FT	IN	0 FT	38 FT	8.75 IN
LB/FT	IN	38 FT	500 FT	6 IN
LB/FT	IN	FT	FT	IN

GROUTING DATA:

Grout Type	No. of Sacks	Grout Weight	From	To
Portland II	5	Lb/gal	0 Ft	38 Ft
		Lb/gal	Ft	Ft

Describe grouting procedure

w/2% bentonite - through trimmie pipe

SCREEN:

☐ Perforated pipe ☐ Manufactured

Diameter _____ Inches Length _____ Feet

Material _____

Slot Size _____ Set From _____ Feet to _____ Feet

Other information _____

WAS A PACKER OR SEAL USED?

☐ Yes ☒ No

If so, what material? _____

Describe packer(s) and location _____

DISINFECTION: Was well disinfected upon completion?

☒ Yes, How? w/chlorine solution

☐ No, Why Not?

Lab to which water quality sample sent for analysis _____

Well Owner: Under Canvas, Inc.

Business Name: _____

Address: 1172 Happy Lane

City, State, Zip: Belgrade MT 59714

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
Drift	0	15
Schist, grey hard	15	55
Fracture, trace H2O	55	56
Schist, grey hard	56	135
Fracture, 3-5 gpm	135	136
Schist, grey hard	136	285
Fracture 7 gpm	285	290
Schist, grey hard	290	500
**Well fracked - see notes below		

STATIC WATER LEVEL 30 FEET

If flowing: closed in pressure _____ PSI

GPM flow 15+ through _____ Inch pipe

Controlled by ☐ Valve ☐ Reducers ☐ Other _____

Reduced flow rate _____ GPM

Can well be completely shut in? _____

WELL TEST DATA:

☒ Pumped Describe: w/air

☐ Bailed

☐ Other

Pumping Level Below Land Surface

_____ Ft. After _____ Hrs. pumped _____ GPM

_____ Ft. After _____ Hrs. pumped _____ GPM

If pump installed, pump rate: _____ GPM

REMARKS

Fracked well (3 settings) 50'-150'-250', Well made 7 gpm before, and 15 gpm after,

This well was drilled under license # 324 and this report is true and accurate.

Drilling firm: Alexander Drilling, Inc.

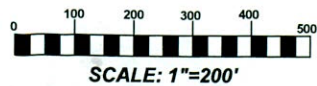
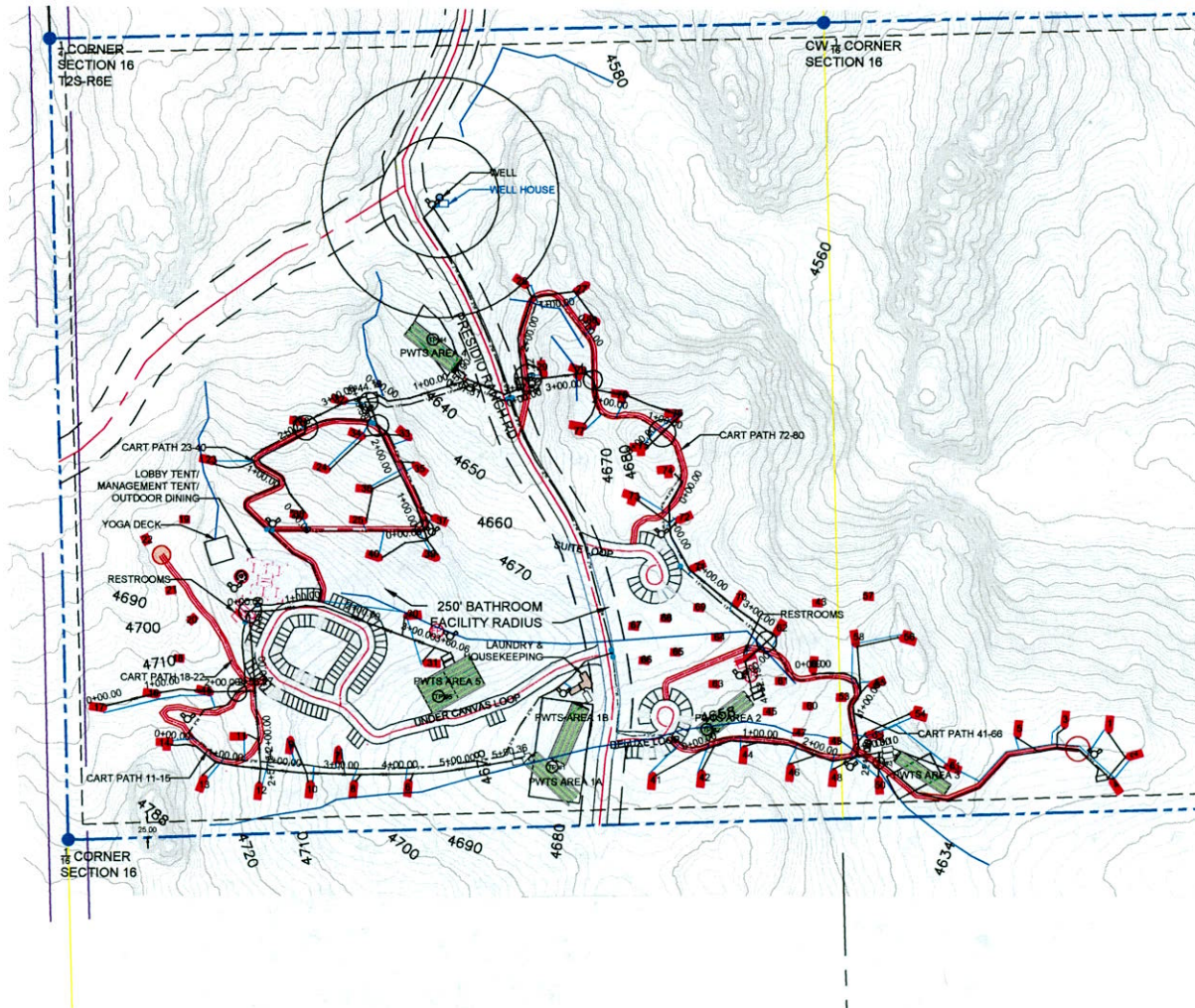
Signature of License Representative: _____

Signature of Well Owner or Equitable Property Holder: _____

Date: _____

LEGEND

- PARCEL BOUNDARY (SURVEYED)
- 10' MAJOR CONTOURS
- 2' MINOR CONTOURS
- CENTER LINES
- EASEMENTS
- BUILDING SETBACK
- EXISTING GRAVEL ROADS
- PROPOSED GRAVEL ROADS
- PROPOSED CART PATHS (8' WIDE TYP)
- GRAVEL PARKING SPACES
- SAFARI TENTS (20)
- DELUXE TENTS (48) (water Service)
- SUITE TENTS (12) (water Service)
- 2" HDPE Effluent Main
- 4" PVC Gravity Laterals
- Water Main and Services Are Proposed
- SEPTIC TANKS
- Dry Hydrant with 200ft hose (water Service)
- TEST PITS (5)



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SHEET
C-109

PWTS/PWS
PERMITS



RUSHMORE UNDER CANVAS
PENNINGTON COUNTY
SOUTH DAKOTA
S16, T2S, R6E
PWS AND PWTS SYSTEM LAYOUT

Date: 01/31/18
Drawn By: MS
Checked By: WHA
Revisions:

RECEIPT

WATER RIGHTS PROGRAM

South Dakota Department of Environment and Natural Resources

Date February 9, 20 18

RECEIVED OF Anderson Engineering, Inc. 2417 W Main Street Suite 1A Bozeman, MT 59718

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

Fee for Application for Permit No. <u>2781-2</u> to Appropriate Water, to construct and to put water to beneficial use	100	00
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>2781-2</u>	200	00
Fee for Filing Transfer Form _____		
Fee for _____		
Fee for Issuing New Well Driller's License No. _____ for C.Y. _____		
Fee for Renewal of Well Driller's License No. _____ for C.Y. _____		
Fee for Issuing Well Pump Installer's License No. _____ for C.Y. _____		
Fee for Renewal of Well Pump Installer's License No. _____ for C.Y. _____		
(Any Other Work Provided by Law)	TOTAL	300 00

No. 08591

By

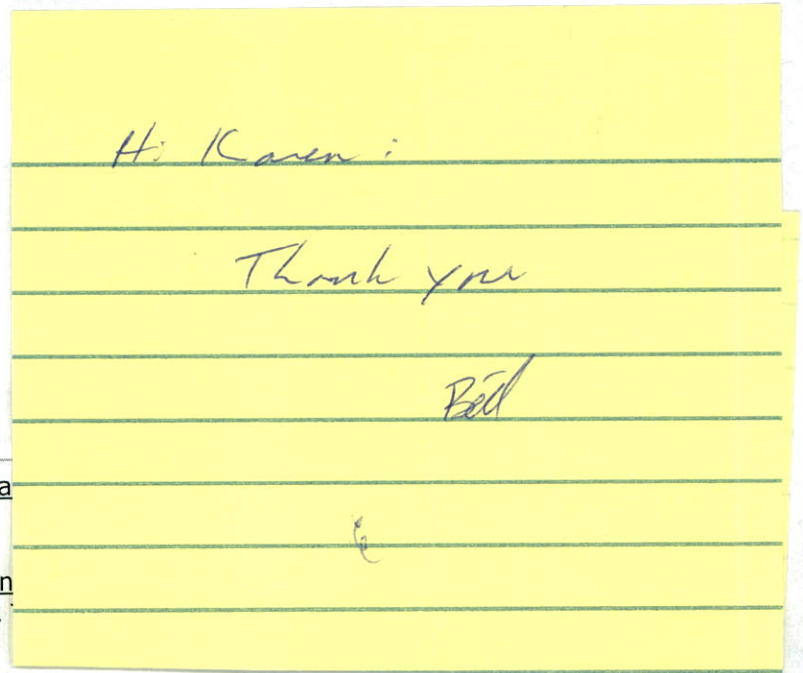
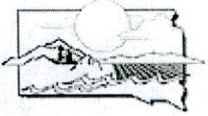
Jeanne Goodman
Chief Engineer JM

Schlaak, Karen

To: bill@andersonmontana.com
Subject: FW: [EXT] Under Canvas Rushmoore - Section 16, T2S-R6E
Attachments: E1585LDV5-NONIRRIG Application.pdf; Water Wells - Section 16.pdf; WellLogsSearch_20170918043124.csv

Bill,
Just a note to let you know we have not received the signed application and the application/license fee of \$300. Once they are submitted, the review process will continue.

Karen Schlaak
SD DENR, Water Rights Program
(605) 773-3352



From: William H. Anderson [mailto:bill@andersonmontana.com]
Sent: Tuesday, January 30, 2018 11:04 AM
To: Gronlund, Eric
Cc: 'Jeremy Budge (jeremy@undercanvas.com)'; marlen
Subject: [EXT] Under Canvas Rushmoore - Section 16,

Good morning Eric,

Attached is a Non-Irrigation water right application for Under Canvas Rushmore.

The project is commercial and will have transient public water supply.

There are 2 other wells in section 16. They are attached.

Let me know if you need more information.

Application fees will be mailed with the signed application.

We appreciate your assistance.

Thank you

Bill Anderson, P.E., P.L.S.
Anderson Engineering, Inc.
bill@andersonmontana.com
406 925 0590 cell

Schlaak, Karen

From: Jeremy Budge <jeremy@undercanvas.com>
Sent: Friday, February 09, 2018 11:30 AM
To: Schlaak, Karen
Cc: 'William H. Anderson'
Subject: Re: [EXT] Water Permit Application

You can put me down as the contact. Jeremy Budge.

Thanks,

Jeremy

From: Schlaak, Karen <Karen.Schlaak@state.sd.us>
Sent: Friday, February 9, 2018 10:09:27 AM
To: Jeremy Budge
Cc: 'William H. Anderson'
Subject: Water Permit Application

We have received the Application for Permit to Appropriate Water in SD. We need to have a contact person for this application. When we public notice the application it will be listed as Under Canvas, Inc. c/o _____ 1172 Happy Lane, Belgrade MT. A copy of everything will also be send to William Anderson, Anderson Engineering, Inc., 5520 Sourdough Rd, Bozeman MT.

Let me know.

Karen Schlaak

SD DENR, Water Rights Program
(605) 773-3352





**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE SOUTH DAKOTA 57501-3182
<http://denr.sd.gov>

**RECOMMENDATION OF CHIEF ENGINEER FOR WATER PERMIT
APPLICATION NO. 2781-2, Under Canvas Inc.**

Pursuant to SDCL 46-2A-2, the following is the recommendation of the Chief Engineer, Water Rights Program, Department of Environment and Natural Resources concerning Water Permit Application No. 2781-2, Under Canvas Inc., c/o Jeremy Budge, 1172 Happy Lane, Belgrade MT 59714.

The Chief Engineer is recommending APPROVAL of Application No. 2781-2 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 rights, 3) the proposed use is a beneficial use and 4) it is in the public interest with the following qualifications:

1. The well approved under this Permit will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner under this Permit shall control his 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 Permit holder shall report to the Chief Engineer annually the amount of water withdrawn from the Crystalline Rock aquifer.
3. Water Permit No. 2781-2 authorizes a total annual diversion of 8.0 acre foot of water.

See report on application for additional information.

Jeanne Goodman, Chief Engineer

April 10, 2018

**Report to the Chief Engineer
Water Permit Application No. 2781-2
Under Canvas, Inc.
April 4, 2018**

Water Permit Application No. 2781-2 for Under Canvas, Inc. c/o Jeremy Budge proposes to appropriate water at a maximum instantaneous diversion rate of 0.033 cubic feet per second (cfs) with a maximum annual appropriation of 8 acre-feet from an existing well (500 feet deep) completed into the Crystalline rock aquifer. The well is located in the NW ¼ SW ¼ Section 16-T2S-R6E in Pennington County approximately one mile southeast of Keystone and is for commercial use in Government Lot 6, SE ¼ NW ¼ and N ½ SW ¼ all in Section 16-T2S-R6E.

Aquifer: Crystalline Rock (CRSL)

Hydrogeology and Aquifer Characteristics

In western South Dakota, wells completed into the Precambrian aged crystalline rock have not encountered measureable amounts of groundwater outside of the Black Hills area (Driscoll and Carter, 2001). Rather than one single aquifer across the entire Precambrian aged core of the Black Hills, the Crystalline Rock aquifer consists of numerous localized aquifers in the core areas where extensive fractures or weathering zones allow for the transmission of water (Driscoll and Carter, 2001). The crystalline rocks of this aquifer have low primary porosities, so water is conveyed to wells along fractures, joints, and faults (Rahn, 1979). Therefore, water availability in the aquifer is site specific and depends upon the occurrence of fractures, joints, and faults (secondary porosity) in the subsurface at a given site.

The crystalline rock types at this well location are primarily schists (Redden and DeWitt, 2008). The well completion report for this application reports a 500 feet deep well with a static water level of 30 feet below grade (January 26, 2018). The well is located about 0.6 miles southwest of an overturned syncline, about 0.7 miles southeast of the Keystone fault, and about 0.9 miles northeast of a minor antiform or synform (Redden and DeWitt, 2008). The presence of faulting and folding in the area is an indication of potential for secondary porosity in the area.

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 there is unappropriated water available for the applicant's proposed use, the proposed diversion can be developed without unlawful impairment of existing rights, and the proposed use is a beneficial use and in the public interest. This report will address the availability of unappropriated water and potential effects on existing rights from the aquifer that are pertinent to this application.

Water Availability

The probability of unappropriated water being available from the Crystalline Rock 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 formation older than or stratigraphically lower than the greenhorn formation in excess of the average estimated annual recharge for use by water distribution systems.” Additionally, pursuant to SDCL 46-1-6 (17) a water distribution system is defined as “a system of piping, valves, storage tanks, pumps, and appurtenances by which water is conveyed for domestic or municipal use by a common distribution system, including a municipality as defined in § 9-1-1, a nonprofit rural water supply company as defined in § 10-36A-1, a water user district as defined in § 46A-9-2, a sanitary district as defined in chapter 34A-5, or homes, including mobile homes as defined in § 32-3-1, and manufactured homes as defined in § 34-34A-1.1 supplied by a common distribution system.” Here, the Crystalline Rock aquifer is older than the Greenhorn Formation, but a water distribution system is not involved, therefore the issue of recharge versus discharge must be considered.

Recharge to the aquifer is from infiltration of precipitation and streamflow losses. Discharge from the aquifer occurs through pumping from wells, evapotranspiration, and seepage to streams. Driscoll and Carter (2001) estimated recharge to the Crystalline Rock aquifers to be equal to withdrawals (3,600 acre-feet per year), however it was noted that actual recharge to the crystalline aquifers must be much larger than estimated to account for discharge to streams. Driscoll and Carter (2001) noted for crystalline rock aquifers, “Recharge conditions are highly transient and have large spatial variability; thus, quantification is not attempted.” Additionally, data is not available to attempt delineation of the localized aquifers within the crystalline core area of the Black Hills. Therefore, there are no estimates of either average annual recharge to or average annual withdrawal from the localized aquifer.

Observation Wells

The Water Rights Program monitors two observation wells completed into the Crystalline Rock aquifer in the Black Hills. Neither of these observation wells are located in the immediate area of the well for Application No. 2781-2. Due to the site specific nature of the Crystalline Rock aquifer, these observation wells do not describe local characteristics in the aquifer. However, they can provide information as to general aquifer characteristics.

Observation well CU-86A is located about 11.2 miles to the southwest of the well site. The hydrograph for this observation well is shown in Figure 1. In examining Figure 1, water levels can be seen responding to climatic conditions rising during wet periods and decreasing during drier periods. Water levels fluctuate as much as 40 feet in this observation well in response to climatic conditions. The behavior of the Crystalline Rock aquifer in the area of

observation well CU-86A should be similar to the aquifer in the area of this application, since the crystalline rock is exposed at both locations and experience similar climatic conditions. At the other Crystalline Rock aquifer observation well in the Black Hills (located about 9.6 miles to the north northeast), the aquifer is overlain by other geologic units, which would affect recharge characteristics and make it less reflective of the characteristics of the aquifer at the well site. Therefore, only the hydrograph for observation well CU-86A is presented. In general when examining Figure 1, the effects of pumping from the aquifer are masked by climatic conditions indicating that the aquifer is dominated by natural conditions (recharge to and natural discharge from the aquifer). Since recharge to and natural discharge from the aquifer can be captured for well withdrawals, this proposed appropriation is not expected to cause withdrawals to exceed recharge in the area of the well sites.

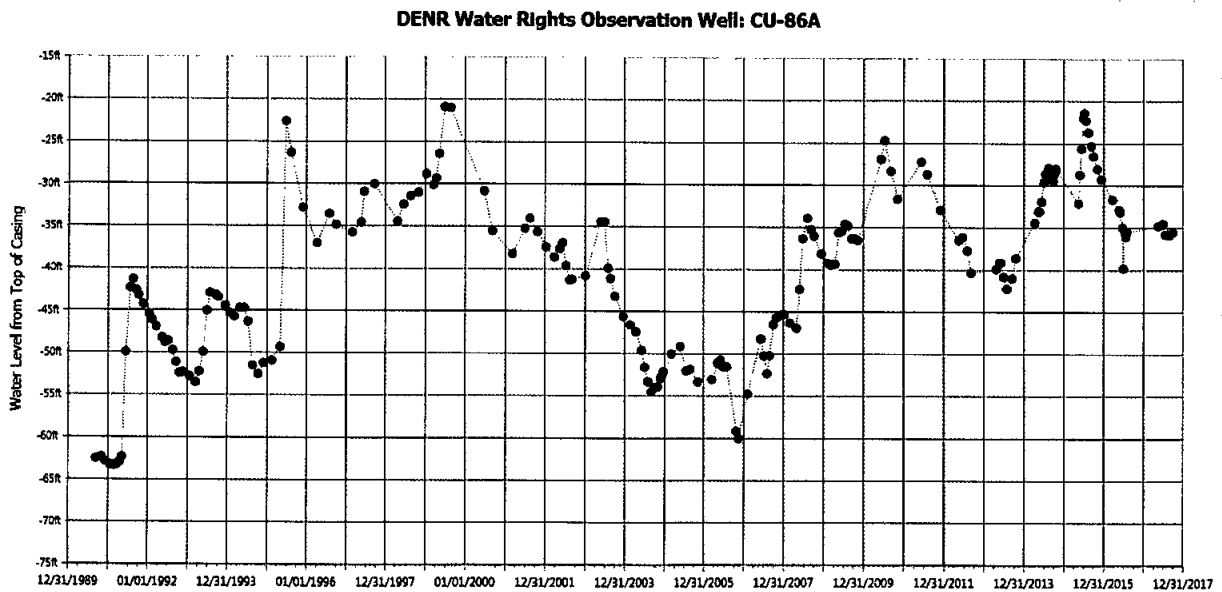


Figure 1: Hydrograph of Observation Well CU-86A (Water Rights. 2018a)

Existing Users

Nearby water rights/permits currently authorized to appropriate water from the Crystalline Rock aquifer are shown in Figure 2 and summarized in Table 1. The nearest water right/permit completed in the Crystalline Rock aquifer to the well site for this application is Water Right No. 2500-2 located about 1 mile to the north northwest. Water Right No. 2500-2 is held by Town of Keystone for municipal use (Water Rights, 2018b). Table 1 also contains the estimated annual water use for the water rights/permits shown in Figure 2. Estimations assume that water rights/permits limited by maximum instantaneous diversion rate historically use less than 60% of the permitted diversion rate annually, and water rights/permit limited by an annual volume are assumed to use the full annual volume (Water Rights, 2018b). There are several domestic well completion reports on file with the Water Rights Program within one mile of this application that are all completed into the Crystalline Rock aquifer (Water Rights, 2018c).

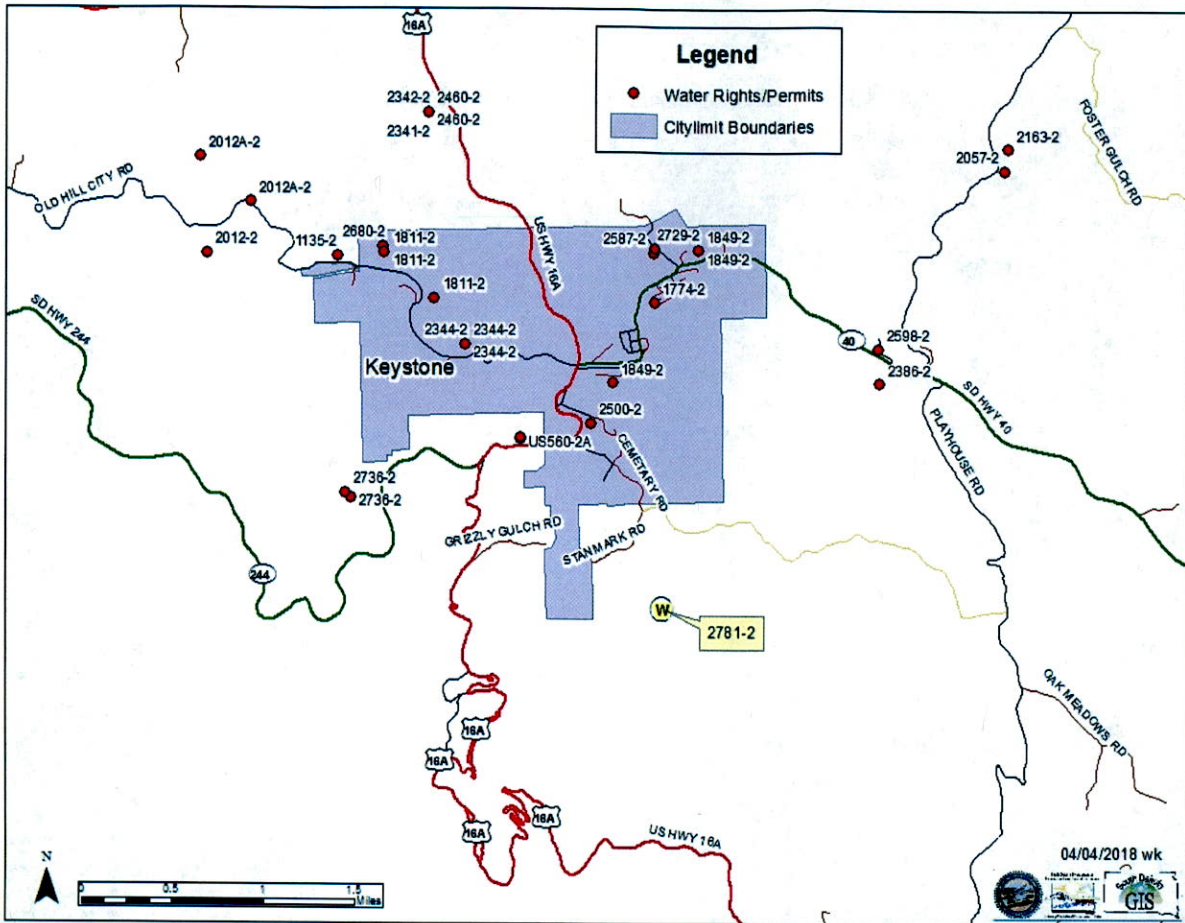


Table 1: Summary of Water Rights shown in Figure 2 (Water Rights, 2018b)

Permit No.	Name	Status	Use	Rate (cfs)	Estimated use (acre-feet/yr)
1135-2	JOHN KINYON	LC	COM	0.03	13.0
1595-2	ROCKY GULCH LLC	LC	COM	0.07	30.4
1774-2	MINERAL TECHNOLOGY CORP	LC	COM	0.09	39.1
1811-2	BREEZE INC	LC	COM/DOM	0.067	29.1
1849-2	TOWN OF KEYSTONE	LC	MUN	0.56	243.3
2012-2	BAPTIST CAMP JUDSON	LC	INS	0.04	17.4
2012A-2	BAPTIST CAMP JUDSON	LC	INS	0.04	17.4
2057-2	BLACK HILLS CHILDRENS HOME	LC	INS	0.019	8.3
2163-2	BLACK HILLS CHILDRENS HOME	LC	INS	0.04	17.4
2342-2	DANIELLE BANKS	LC	COM	0.044	19.1
2341-2	DANIELLE BANKS	LC	COM	0.013	5.6
2344-2	MIKE VINTON	LC	COM	0.044	19.1
2386-2	TOWN OF KEYSTONE	LC	MUN	0.089	38.7
2460-2	KENNETH D. KNAPP	LC	COM	0.033	14.3
2500-2	TOWN OF KEYSTONE	LC	MUN	0.22	96*
2587-2	TOWN OF KEYSTONE	LC	MUN	0.133	57.8
2598-2	GRANITE POINT LLC	LC	SHD	0.067	29.1
2680-2	BREEZE INC	LC	COM	0.029	12.6
2729-2	TOWN OF KEYSTONE	LC	MUN	0.11	47.8
2736-2	MT RUSHMORE NAT'L MEMORIAL	LC	REC/COM	0.122	53.0
US560-2A	US NATIONAL PARK SERVICE	LC	COM	0.066	28.7

MUN- municipal, COM- commercial, INS- institutional, IND-industrial, IRR- irrigation

*annual volume limit on water right

An adequate well as defined by Administrative Rule of South Dakota (ARSD) 74:02:04:20(6) is “a well constructed or rehabilitated to allow various withdrawal methods to be used, to allow the inlet to the pump to be placed not less than 20 feet into the saturated aquifer or formation material when the well is constructed, or to allow the pump to be placed as near as possible to the bottom of the aquifer as is practical if the aquifer thickness is less than 20 feet.” In the past the Water Management Board has recognized that to place water to maximum beneficial use, a certain amount of drawdown may occur. ARSD 74:02:04:20(7) defines an adversely impacted domestic well 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.” While in most aquifers 20 feet is an adequate depth of water for domestic wells, in the Crystalline Rock aquifer 20 feet below the top of the aquifer is seldom a sufficient depth for a well to be a dependable water supply. This is due to the low porosity of the crystalline rock and water availability at a given location being linked to the unpredictable occurrence of secondary porosity, so wells that meet the definition of an adequate well might not yield sufficient water for a well owner’s needs. The precise drawdown effects at the well sites will depend on aquifer characteristics in the immediate vicinity of the wells, and determination of the exact effects would require additional data and testing. When compared with documented water level variability of 40 feet as a result of climatic conditions (as demonstrated in Figure 1), potential

drawdown as the result of 0.033 cfs (about 15 gallons per minute) is expected to be relatively insignificant when compared with climatically driven water level fluctuations. Taking all the above into consideration the annual volume at the maximum diversion rate requested by this application is not expected to adversely impact existing users.

Conclusions

1. Water Permit Application No. 2781-2 for Under Canvas, Inc. c/o Jeremy Budge proposes to appropriate water at a maximum instantaneous diversion rate of 0.033 cfs with a maximum annual appropriation of 8 acre-feet from an existing well completed into the Crystalline rock aquifer located in the NW $\frac{1}{4}$ SW $\frac{1}{4}$ Section 16-T2S-R6E for commercial use.
2. Average annual recharge to the local Crystalline Rock aquifer has not been quantified; however, based on best reasonably available information (observation well data) the appropriation proposed by this application is not expected to cause the average annual withdrawals from the aquifer to exceed the average annual recharge to the aquifer and there is a reasonable probability there is unappropriated water available for the application.
3. Available information indicates that any well interference as a result of this application, if approved, is not expected to be adverse.


Whitney Kilts
SDDENR-Water Rights Program

References

- Driscoll, D. G. and Carter J. M., 2001, Hydrologic Conditions and Budgets for the Black Hills of South Dakota, through Water Year 1998. Water-Resources Investigations Report 01-4226. USGS. Rapid City, SD.
- Rahn, P. H., 1979, Ground Water Resources of Western South Dakota. South Dakota School of Mines and Technology Project #2533. Rapid City, South Dakota. p 2-1 to 2-3.
- Redden, J.A., and DeWitt, E., 2008, Maps showing geology, structure, and geophysics of the central Black Hills, South Dakota: U.S. Geological Survey Scientific Investigations Map 2777.
- Water Rights. 2018a. Observation Well Files, SD DENR-Water Rights Program, Joe Foss Bldg., Pierre, SD.
- Water Rights. 2018b. Water Right/Permit Files. SD DENR-Water Rights Program, Joe Foss Bldg., Pierre, South Dakota.
- Water Rights. 2018c. Well Completion Reports. SD DENR-Water Rights Program, Joe Foss Bldg., Pierre, South Dakota.

Schlaak, Karen

From: Schlaak, Karen
Sent: Tuesday, April 10, 2018 9:51 AM
To: bill@andersonmontana.com
Subject: Water Permit Application No. 2781-3, Under Canvas Inc.
Attachments: 2781-2.pdf

Mr. Anderson,

Attached is a copy of the report and recommendation for Water Permit Application No. 2781-2, Under Canvas Inc. as well as the information regarding the public notice. It is important that someone contact the Rapid City Journal to authorize publication and to arrange for payment of the notice. Paper copy is the mail today.

If you have questions, please contact me.

Karen Schlaak

SD DENR, Water Rights Program
(605) 773-3352





DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182

denr.sd.gov

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

April 10, 2018

Under Canvas Inc.
c/o Jeremy Budge
1172 Happy Lane
Belgrade MT 59714

Dear Mr. Budge:

Water Permit Application No. 2781-2 for commercial use 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 at Rapid City SD (Ph # 605-394-8300) 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 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,


Eric Gronlund
Natural Resources Engineer
(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.

c: William Anderson, Anderson Engineering Inc

NOTICE OF APPLICATION NO. 2781-2 to Appropriate Water

Notice is given that Under Canvas, Inc., c/o Jeremy Budge, 1172 Happy Lane, Belgrade MT 59714 has filed an application for a water permit to appropriate 8 acre-feet of water annually at a maximum pump rate of 0.033 cubic feet of water per second from one well completed into the Crystalline Rock (500 feet deep) located in the NW 1/4 SW 1/4 for commercial use in Gov't Lot 6, SE 1/4 NW 1/4 and N 1/2 SW 1/4 all in Section 16-T2S-R6E. This application is located approximately 1 mile southeast of Keystone SD.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 2781-2 with qualifications because 1) unappropriated water is available, 2) existing rights will not be unlawfully impaired, 3) it is a beneficial use of water, and 4) it is in the public interest. The Chief Engineer's recommendation with qualifications, the application, and staff report are available at <http://denr.sd.gov/public> or contact Eric Gronlund for this information, or other information, at the Water Rights Program address provided below.

Any person interested in opposing or supporting this application or recommendation must file a written petition with BOTH the applicant and Chief Engineer. The applicant must file a petition if contesting the Chief Engineer's recommendation. The Chief Engineer's address is "Water Rights Program, Foss Building, 523 E Capitol, Pierre SD 57501 (605 773-3352)" and the applicant's mailing address is given above. A petition filed by either an interested person or the applicant must be filed by April 30, 2018.

The petition may be informal, but must include a statement describing the petitioner's interest in the application, the petitioner's reasons for opposing or supporting the application, and the signature and mailing address of the petitioner or the petitioner's legal counsel, if legal counsel is obtained.

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.

Steven M. Pirner, Secretary, Department of Environment and Natural Resources. Published once at the total approximate cost of _____.

Schlaak, Karen

From: Schlaak, Karen
Sent: Tuesday, April 10, 2018 9:46 AM
To: RCY Legals (legals@rapidcityjournal.com)
Subject: 2781-2, Under Canvas Inc
Attachments: 2781-2public.short.docx; FORM8.FRM.doc

Attached is a notice to be published on April 19, 2018.

Under Canvas Inc, c/o Jeremy Budge, 1172 Happy Lane, Belgrad MT 59714 (888-494-1148 or 607 232-6093) 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

SD DENR, Water Rights Program
(605) 773-3352



Affidavit of Publication

RECEIVED

APR 27 2018

WATER RIGHTS
PROGRAM

STATE OF SOUTH DAKOTA

County of Pennington

SS:

Sheri Sponder being first duly sworn, upon his/her oath says: That he/she is now and was at all time hereinafter mentioned, an employee of the RAPID CITY JOURNAL, a corporation of Rapid City, South Dakota, the owner and publisher of the RAPID CITY JOURNAL, a legal and daily newspaper printed and published in Rapid City, in said County of Pennington, and has full and personal knowledge of all the facts herein stated as follows: that said newspaper is and at all of the times herein mentioned has been a legal and daily newspaper with a bonafide paid circulation of at least Two Hundred copies daily, and has been printed and published in the English language, at and within an office maintained by the owner and publisher thereof, at Rapid City, in said Pennington County, and has been admitted to the United States mail under the second class mailing privilege for at least one year prior to the publication herein mentioned; that the advertisement, a printed copy of which, taken from said Rapid City Journal, the paper in which the same was published, is attached to this sheet and made a part of this affidavit, was published in said paper once each day for one successive day, the first publication there of being on the 19th day of April 2018 that the fees charged for the publication there of are 61 dollars and 12 cents.

Sheri Sponder

Subscribed and sworn to before me this 25th
day of April, 2018.

Ken Sponer

Notary public

8/21/2019

My commission expires

April 19 L21080178

NOTICE OF APPLICATION NO. 2781-2 to Appropriate Water

Notice is given that Under Can-vas, Inc., c/o Jeremy Budge, 1172 Happy Lane, Belgrade MT 59714 has filed an application for a water permit to appropriate 8 acre-feet of water annually at a maximum pump rate of 0.033 cubic feet of water per second from one well completed into the Crystalline Rock (500 feet deep) located in the NW 1/4 SW 1/4 for commercial use in Govt Lot 6, SE 1/4 NW 1/4 and N 1/2 SW 1/4 all in Section 16-T2S-R6E. This application is located approximately 1 mile south-east of Keystone SD.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 2781-2 with qualifications because 1) unappropriated water is available, 2) existing rights will not be unlawfully impaired, 3) it is a beneficial use of water, and 4) it is in the public interest. The Chief Engineer's recommendation with qualifications, the application, and staff report are available at <http://denr.sd.gov/public> or contact Eric Gronlund for this information, or other information, at the Water Rights Program address provided below.

Any person interested in opposing or supporting this application or recommendation must file a written petition with BOTH the applicant and Chief Engineer. The applicant must file a petition if contesting the Chief Engineer's recommendation. The Chief Engineer's address is "Water Rights Program, Foss Building, 523 E Capitol, Pierre SD 57501 (605 773-3352)" and the applicant's mailing address is given above. A petition filed by either an interested person or the applicant must be filed by April 30, 2018.

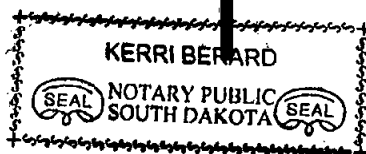
The petition may be informal, but must include a statement describing the petitioner's interest in the application, the petitioner's reasons for opposing or supporting the application, and the signature and mailing address of the petitioner or the petitioner's legal counsel, if legal counsel is obtained.

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 rec-

ommendation 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.

/s/ Steven M. Pirner, Secretary
Department of Environment and
Natural Resources

(Published once at the total approximate
cost of \$61.12)





DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE SOUTH DAKOTA 57501-3182
<http://denr.sd.gov>

MAY 08 2018

Under Canvas Inc.
c/o Jeremy Budge
1172 Happy Lane
Belgrade MT 59714

Dear Mr. Budge:

Enclosed is Water Permit No. 2781-2 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,

Jeanne Goodman, Chief Engineer
Water Rights Program
(605) 773-3352

enclosures

Report of Examination of Works and/or Application of Water to Beneficial Use For Permit No. 2781-2

I have this day, Aug 15, 2018 made a thorough examination of the water use system constructed by **Under Canvas Inc., 1172 Happy Lane, Belgrade, MT 59714** of Permit No. **2781-2**, bearing the priority of **2/9/2018** authorizing the diversion of **.033** cu. ft. per second of the water from one well for commercial purposes, in Pennington County.

Inspection contact & relationship to permit holder, if applicable: **Jeremy Budge, agent**
607-232-6093
Adrian Dingle, maintenance

A. Works used to divert the water:

Well Information:

- 1) Well Drilling Firm: Alexander Drilling (1/2018)
- 2) No. of Wells 1
- 3) Depth(s) 500 feet
- 4) Well log is available Yes

Casing:

- 1) Diameter 6"
- 2) Length 40 feet
- 3) Type PVC

Screen:

- 1) Type open hole
- 2) Length 460 feet
- 3) Static water level 30 feet

Pump:

- 1) Make Grundfos
- 2) Model 16S20-18
- 3) Size 4"
- 4) Capacity 15 GPM (This is a 16 gpm pump producing 15 gpm as installed)
- 5) Horsepower rating 2 hp

Note: The well was air tested at 15 gpm at time of drilling

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

- 1) Type PE
- 2) Size various inches
- 3) Length -- feet

C. Works used to apply water to beneficial use:

The well serves Under Canvas, a facility offering luxury tent lodging, tours, and meals. The well serves approximately 70 tent accommodations, some with running water and some served by outdoor hydrants. The well also serves a kitchen area, dining area, restrooms and laundry. The well pumps to a cistern (estimated 10,000 gal.) adjacent to the well and then uses a booster pump and pressure system to deliver water to the facility.

D. Compliance with Permit Requirements:

- 1) Permit qualifications being abided by: Yes
- 2) Exceptions to compliance are: none

E. Condition and Location:

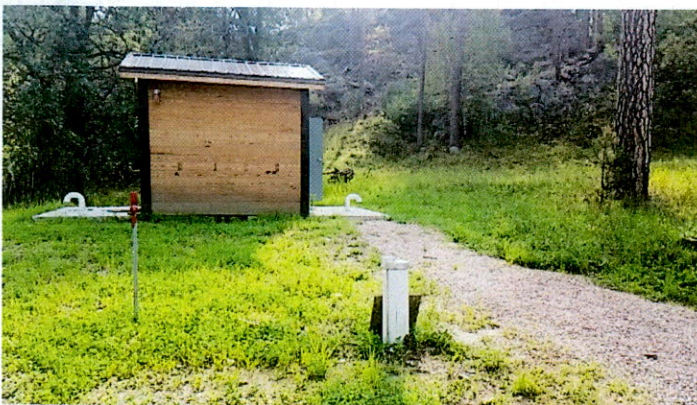
1. The system is in good condition with the point of diversion located as follows:
2,267' N and 758' E of the SW corner Section 16 T2S R6E (43.874581, -103.416804)
2. The works are capable of diverting and conveying to the place of use .033 cu. ft. per second (15 gpm) of water which is to be used for **commercial** use and the license should be issued for .033 cfs.
3. All structures, wells and lands on map: **No, Well only**

F. Comments or other permit(s) associated with the project: none

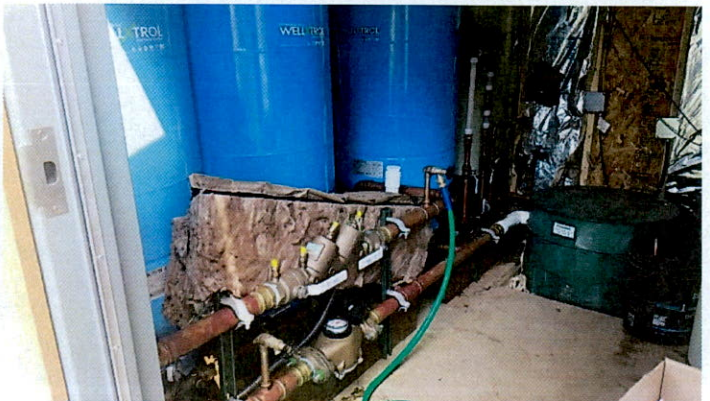


Steven Quissell
Water Rights Inspector
DENR Water Rights Program

Date Report Completed: 8/17/2018

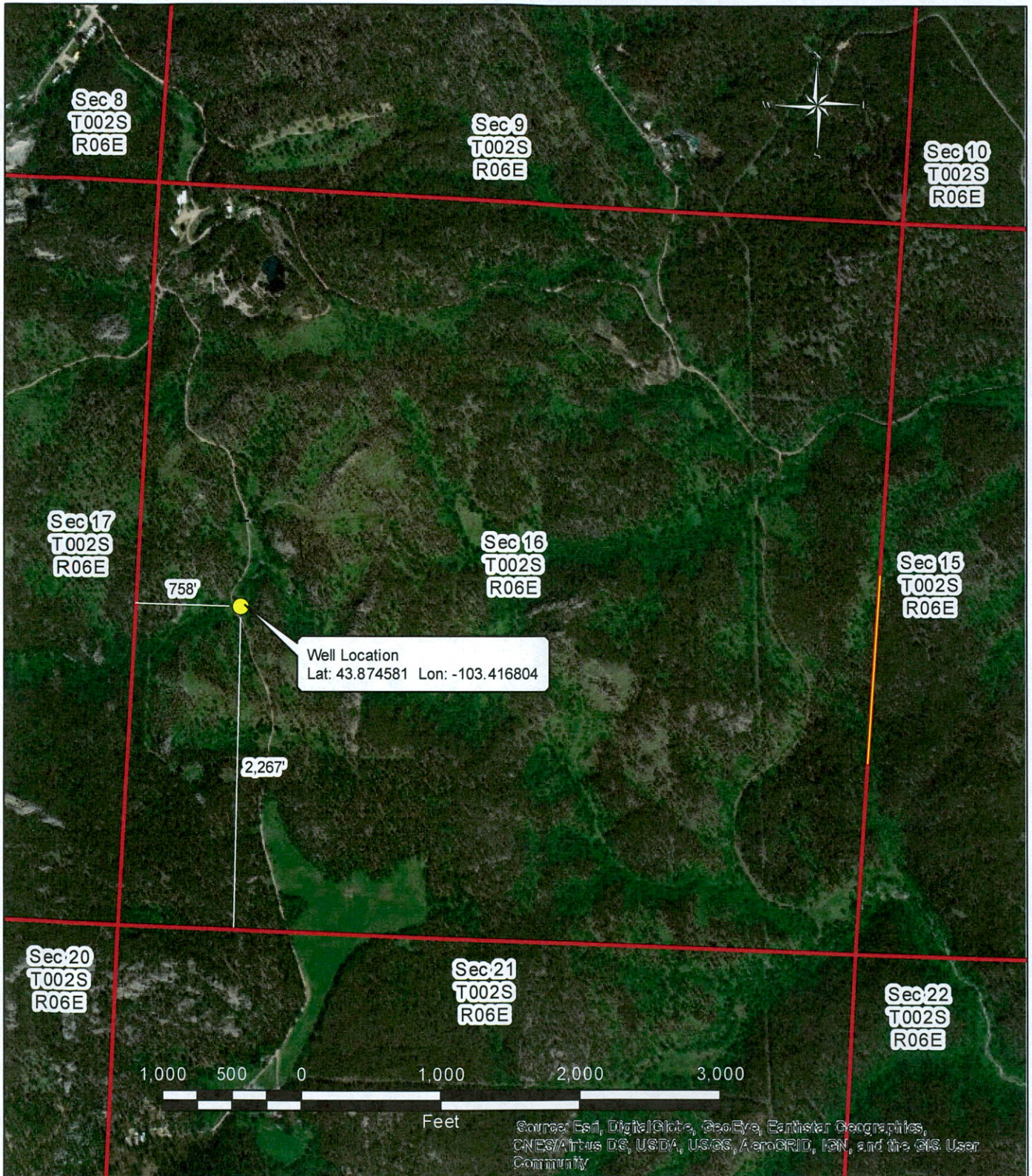


Well and pump house



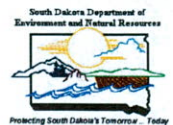
Pump house Appurtenances

Water Right #2781-2
Under Canvas Inc.
8/15/2018



Steven Quissell

Steven Quissell
Water Rights Inspector
DENR Water Rights Program





DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE SOUTH DAKOTA 57501-3182
<http://denr.sd.gov>

SEP 26 2018

2781-2

Jeremy Budge
Under Canvas Inc
1172 Happy Lane
Belgrade MT 59714

Dear Mr. Budge:

Enclosed is Water License No. 2781-2. This is the final water right document completing your process of obtaining a Water Right. Included with your license is a map prepared by the staff engineer who conducted the field investigation.

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

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

Sincerely,

Jeanne Goodman, Chief Engineer
Water Rights Program
(605) 773-3352

enclosures

STATE OF SOUTH DAKOTA

WATER LICENSE NO. 2781-2

(1) Under Canvas Inc. 1172 Happy Lane, Belgrade MT 59714 made Application No. 2781-2, February 9, 2018 for a water permit to appropriate 8.0 acre feet of water annually at a maximum pump rate of 0.033 cubic feet of water per second from ground water, one well completed into the Crystalline Rock, Pennington County, South Dakota for commercial purposes. Permit No. 2781-2, with a priority date of February 9, 2018 was approved April 30, 2018 and issued to the applicant for diversion of water with construction of the described water supply system to be completed on or before April 30, 2023 and for the application to beneficial use of said water on or before April 30, 2027.

(2) It is certified that the permit holder has complied with the provisions of South Dakota State Law relating to completion of the construction of the water supply system and is entitled to divert 0.033 cubic feet of water per second for beneficial use. The location of the diversion point is:

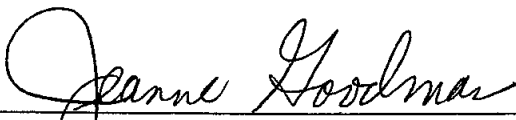
- 2,267'N and 758' E of the SW corner of Section 16 T2S R6E (NW ¼ SW ¼)
Latitude 43.874581, Longitude -103.416804

(3) The permit holder has complied with the provisions of South Dakota State Law relating to the application of water to beneficial use.

(4) Pursuant to South Dakota Water Law 46-5-30.1 Under Canvas Inc. 1172 Happy Lane, Belgrade MT 59714 the holder and/or owner of Water Right No. 2781-2 is issued a license to appropriate water, the right to use 0.033 cubic feet of water per second from ground water, one well (Crystalline Rock) with a priority date of February 9, 2018 from the location specified in (2) of this license for commercial purposes.

This license is subject to South Dakota Water Law, any limitations or conditions listed in Water Right No. 2781-2 and subject to the following qualifications:

- The well approved under this Permit will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner under this Permit shall control his withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.
- The Permit holder shall report to the Chief Engineer annually the amount of water withdrawn from the Crystalline Rock Aquifer.
- Water Permit No. 2781-2 authorizes a total annual diversion of 8.0 acre feet of water.



Jeanne Goodman, Chief Engineer
Water Rights Program

Department of Environment and Natural Resources

SEP 26 2018

date

