

WATER PERMIT NO. 7252-3

Name of Applicant: SD Crop Improvement Association

Address: 2380 Research Park Way, Suite 136, Brookings SD 57006

Phone: 605 688-4604

Amount of Water Claimed: 0.133 cfs

Total Acres: 20

Source of Water Supply: groundwater (one well)

Water to be used for: irrigation

County: Brookings

Type of Waste Disposal System: na

Location: ½ mile south of Volga

PRIORITY Date Received: ¹⁸5-1-2011

Application/License Fee: \$700

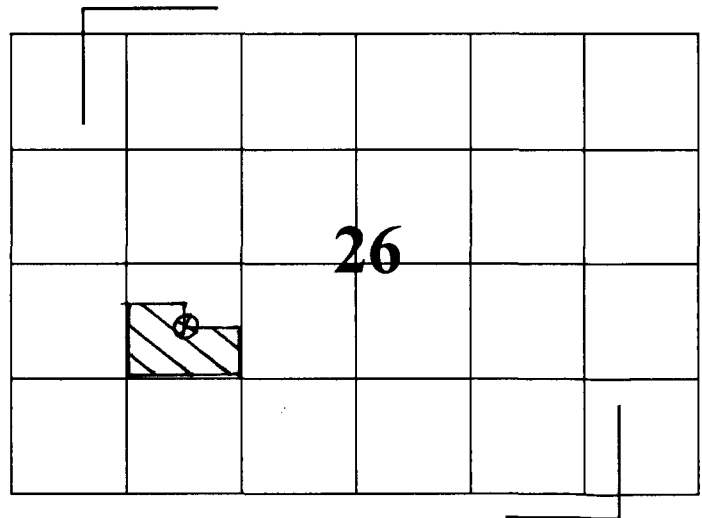
Corrected Application Received:

Period of Annual Use: July 1 – September 30

Remarks:

Diversion Point: NW ¼ SW ¼ Sec 26-T110N-R51W

Land to be Irrigated: NW ¼ SW ¼ Sec 26-T110N-R51W



Depth of Well: 50 feet

Well Driller:

Remarks:

Type of Map: aerial

Prepared by: Gregory Redenius, SDSU

Reviewed and the Number Assigned on: 5-18-2011

By: Karen Schlaak

Notice of Hearing - date to intervene: _____

RECEIVED
MAY 18 2011
WATER RIGHTS
PROGRAM

Mail to: PMB 2020 DENR - Water Rights 523 E Capitol Ave Pierre, SD 57501-3182 ph. (605) 773-3352	(office use only)	
	No. <u>7252-3</u>	Hydrologic Unit <u>10170202</u>
	Basin <u>Sioux River</u>	
	Newspaper <u>Brookings Register P.O. Box 177</u> <u>605-692-6271</u> <u>57006</u>	

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 of Applicant South Dakota Crop Improvement Association Phone 605-688-4604
(check one) Owner ☐ Tenant/lessee ☐
- Mailing Address 2380 Research Park Way Suite 136 Brookings SD 57006
(Address) (City) (State) (Zip Code)
2. Amount of water claimed 0.133 CFS or 60 **GPM ***AF Total Acreage 20
(*Cubic Feet per Second) (**Gallons per Minute) (***)Acre Feet - storage capacity of dam/dugout or annual use if applicable)
3. Source of water supply ground water
4. Location of point of diversion (example - 3 wells in SW1/4 NE1/4 section 12-T104N-R53W) County Brookings
(NW1/4, SW1/4) section 26, Town 51P North,
Range 51
5. County or counties where water will be used Brookings
6. Annual period during which water is to be used July 1 through 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
<u>NW1/4 SW1/4 Sec 26 T104N R53W</u>	<u>20</u>		

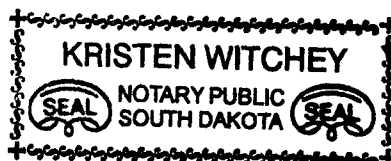
8. Give a description of the project. (Attach sheet if more space is needed)

Irrigate one acre of each field B1, B2, B3, and B4 only irrigating one acre at a time for crop research. See attached map.

STATE OF SOUTH DAKOTA)
County of Brookings) SS

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)

I, Neal R. Foster - SD 11K, the applicant, certify that I have read this application, have examined the attached map and that the matters stated are true and that I intend, and am able to complete the necessary construction.

Applicant's signature Neal R. FosterSubscribed and sworn to before me this 3 day of May 20 11Notary Public signature Kristen WitcheyMy Commission expires
12/29/2016

**SOUTH DAKOTA
WATER PERMIT NO. 7252-3**

Date of first receipt of application May 18, 2011.

The Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 7252-3 to South Dakota Crop Improvement Association, 2380 Research Park Way, Suite 136, Brookings SD 57006 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. 7252-3 appropriates 0.133 cubic feet of water per second from one well to be completed into the Big Sioux:Brookings Aquifer (approximately 50 feet deep) located in NW 1/4 SW 1/4 Section 26 for irrigation of 20 acres located in the NW 1/4 SW 1/4 Section 26; all in T110N-R51W.
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: July 1 – September 30.
3. The date from which applicant may claim right is May 18, 2011.
4. The date of approval of Permit No. 7252-3 is July 11, 2011.
5. One-fifth of the construction is to be completed on or before January 11, 2014.
6. All construction is to be completed on or before July 11, 2016.
7. Water is to be put to beneficial use on or before July 11, 2020.
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 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 well authorized by Permit No. 7252-3 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: Garland Erbele
Garland Erbele, Chief Engineer
Water Rights Program
Department of Environment and Natural Resources

JUL 21 2011
date



Supplemental Information

(type or print in ink)

1. Well Information - Proposed Construction

- a) Drill Hole Diameter 12" Depth 50'
- b) Casing Type Black iron ~~stainless steel~~ Diameter 12" Thickness 3/8"
- c) Screen Type stainless steel Diameter 12" Thickness
- d) Gravel Pack TBD Length of Gravel Pack TBD
- e) Depth to Top of Water Bearing Material 15-20' est.
- f) Depth to Water (ground surface to water level) 15-20' est.
- g) Distance to nearest existing domestic well:

On applicant's property N/A

On property owned by others N/A

2. Wastewater Disposal System Information

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

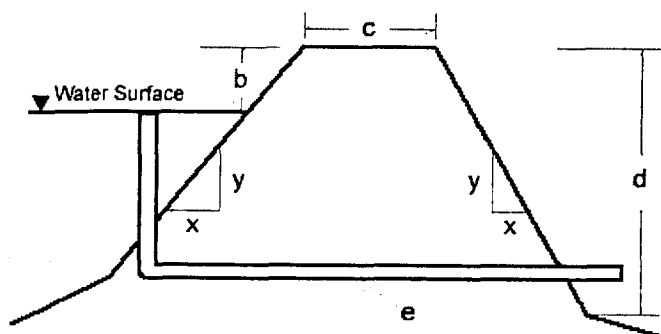
3. Dugout Information

- a) Surface Dimensions N/A Depth N/A
- b) Depth to water (ground surface to water level) N/A

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

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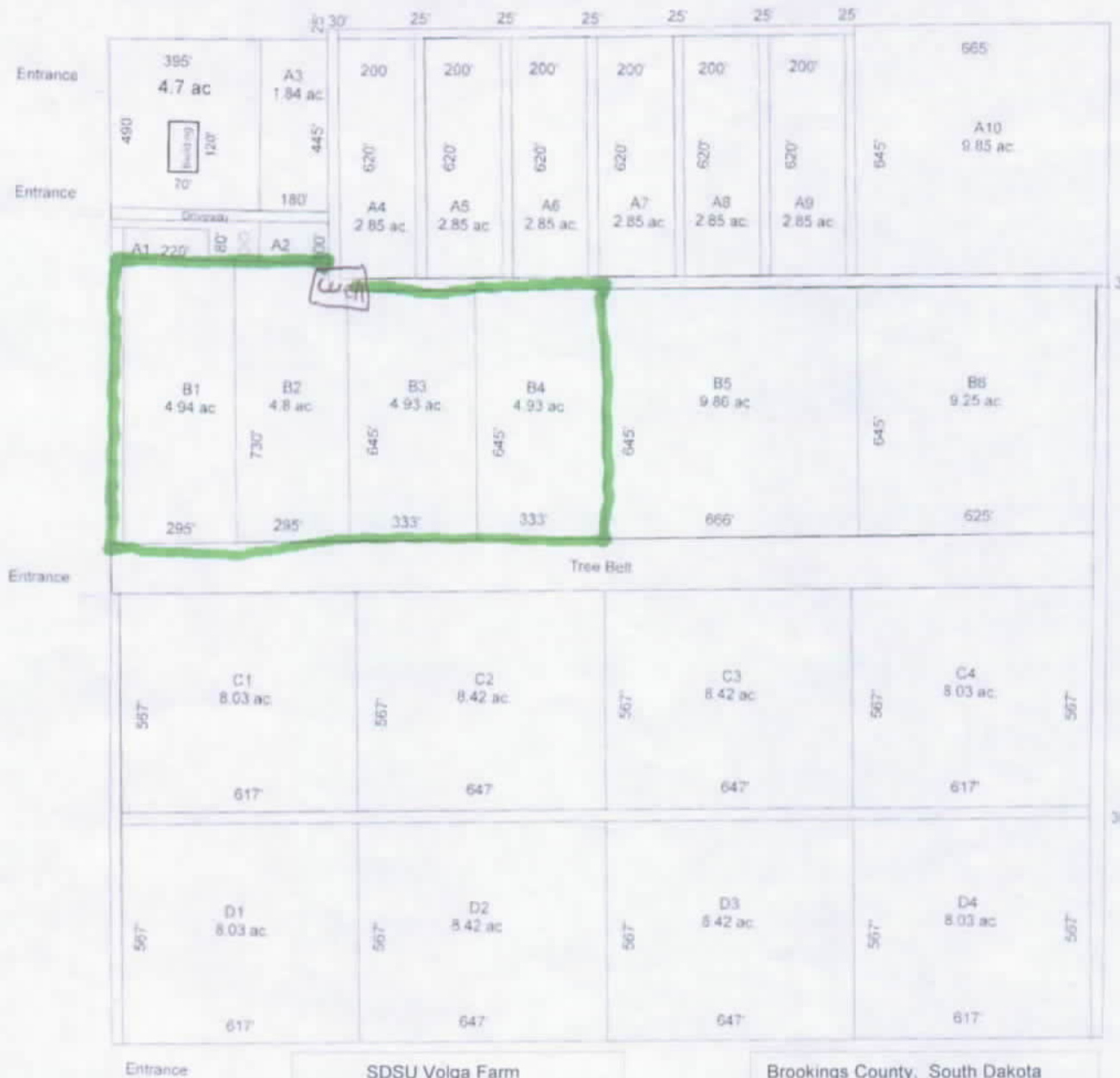
MAY 18 2011

WATER RIGHTS
PROGRAM



By M

5/13/11



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MAY 18 2011
WATER RIGHTS
PROGRAM

SDSU Volga Farm
Longitude: -96.923, Latitude 44.300

Brookings County, South Dakota
SW1/4, sec 26, T.110N, R.51W,
South Dakota, Fifth Principal Meridian

Schlaak, Karen

From: Gronlund, Eric
Sent: Thursday, May 12, 2011 11:50 AM
To: Schaefer, Michelle
Cc: Redenius, Gregory; Schlaak, Karen
Subject: RE: Water Permit w/SDSU
Attachments: SDCIA map.pdf

Greg & Michelle:

Attached is a map that I derived using 2010 FSA imagery and the map submitted to reflect where the well and irrigated acres will be located. The tree belt and acreage configuration help to confirm that the well and acreage are pretty closely identified on this map to their intended locations on the map submitted with the application.

The application states the well will be located in the S 1/2 SW 1/4 of Section 26. Although near the 1 / 16 line it appear the well will be located in the N 1/2 SW 1/4 of Section 26.

The acreage breakdown on the application states the 20 acres will be in the NW 1/4 S1/2 SW 1/4 Section 26. By my review the acreage description appears to be in the NW 1/4 N 1/2 SW 1/4 Section 26.

Do you concur with these changes?

Also, the map needs to reference the section corner or quarter section and be signed by a professional engineer, registered land surveyor or government employee who prepares map as part of their duties. Greg, you would qualify to sign the map and I believe can mark in the south west quarter section corner as a reference point.

Michelle - I briefed our fiscal person yesterday about the JV for payment. She said she'd get back to me. When I checked back today, I learn that she is out of the office on a personal matter. As soon as I'm able to touch base with her, I'll get back to you.

Eric Gronlund
Water Rights Program, DENR
605 773-3352
eric.gronlund@state.sd.us

-----Original Message-----

From: Schaefer, Michelle L [mailto:Michelle.Schaefer@sdstate.edu]
Sent: Wednesday, May 11, 2011 11:45 AM
To: Gronlund, Eric
Cc: Redenius, Gregory
Subject: Water Permit w/SDSU

Signed map

Hello Eric,

Attached are the forms for filing a water permit application. You can work with Greg Redenius if you need any additional information. Please let me know if a JV for payment can be done, or if you will need a check for payment.

Thank you!

Michelle Schaefer
Program Assistant I
SDSU Plant Science Department
SAG 223, Box 2207A
Brookings, SD 57007



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

PMB 2020
JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182
www.state.sd.us/denr

* INVOICE *

Invoice No. 20411-051611

ATTN: Michelle Schaefer, Program Assistant I

SDSU Plant Science Department
SAG 223, Box 2207A
Brookings SD 57007

*PD Ncash
voucher
5/24*

Application / License filing fee for South Dakota Crop Improvement Association Application for
Permit to Appropriate Water For Irrigation

\$700.00

PLEASE PAY THIS AMOUNT:

\$700.00

Karen Schlaak

Karen Schlaak
Water Rights Program
605 773-3352



Accounting Office
Admin 2201

N1513

Document #

07179

Banner Document #

Banner Bank

MAY 24 2011

Banner Rule Code

Application Area

63

Journal Voucher

Date

05/20/11

TO:
Department of Environmental and Natural Resources
PMB 2020 Joe Foss Building
523 E Capitol
Pierre, SD 57501

FROM:
Plant Science
SAG 244 Box 2207A

Funding Information

FOR ACCOUNTING OFFICE USE ONLY

MSA Coding				Banner Coding							
Line	Company	Account	Center	Index	Fund	Organization	Account	Prg	Activity	Amount	DR/CR
1	9064	5208900	153001	3A6549	336549		744960			\$700.00	DR
2	3072	4299802		2020	000800					700.00	CR
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
Total Debits & Credits										\$700.00	

RECEIVED

MAY 26 2011

Division of Financial
& Technical Assistance

Description of Service, Product, Transfer or Correction

Application/license filing fee for permit to appropriate water for irrigation invoice #20411-051611.

Transaction Total

\$700.00

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

Approval

Approval

Approval Signature

Date

Approval Signature

Date

Michelle Schaefer, Program Assistant

Approval

Approval

Approval Signature

Date

Approval Signature

Date



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

PMB 2020
JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182
www.state.sd.us/denr

**RECOMMENDATION OF CHIEF ENGINEER FOR WATER PERMIT
APPLICATION NO. 7252-3, South Dakota Crop Improvement Association**

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. 7252-3, South Dakota Crop Improvement Association, c/o Neal R. Foster, 2380 Research Parkway, Suite 136, Brookings SD 57006.

The Chief Engineer is recommending APPROVAL of Application No. 7252-3 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 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 well authorized by Permit No. 7252-3 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.

See report on application for additional information.

Garland Erbele, Chief Engineer
June 13, 2011

**Report on Water Permit Application No. 7252-3
for South Dakota Crop Improvement Association
May 31, 2011**

Application No. 7252-3 proposes to appropriate 60 gallons per minute (0.133 cfs) from one well approximately 50 feet deep located in the NW ¼ SW ¼ of Section 26 to irrigate 20 acres located in the NW ¼ SW ¼ Section 26; all in T110N R51W in Brookings County. The annual period during which water will be used is July 1 through September 30.

AQUIFER: Big Sioux Brookings

This report will address the availability of unappropriated water from the Brookings management unit of the Big Sioux aquifer.

WATER AVAILABILITY

Aquifer Characteristics:

The Big Sioux Brookings aquifer is a buried outwash (sand and gravel) that is under predominantly water table conditions in the area of this application. The aquifer underlies 74,500 acres and contains an estimated 245,850 acre-feet of recoverable water in storage in Brookings County (Hedges, 1982). The entire Big Sioux aquifer (in Brookings and Kingsbury Counties) underlies 540 square miles and contains an estimated 2.0 million acre-feet of water in storage (Hamilton, 1989). Ground water movement is generally from north to south in the area of this application (Hamilton, 1989).

Observation Well Data:

The Water Rights Program has monitored two observation wells, BG-77P and BG-77Q, located within two miles of this application location. BG-77P was plugged in 1996. Water levels for these wells show good response to climatic conditions, that is, rising water levels during wet years (recharge) and gradually declining water levels during dry years due to natural discharge and to pumping. The water level record indicates that the aquifer is capable of sustaining additional withdrawals (Water Rights, 2011). Hydrographs for these observation wells are included with this report.

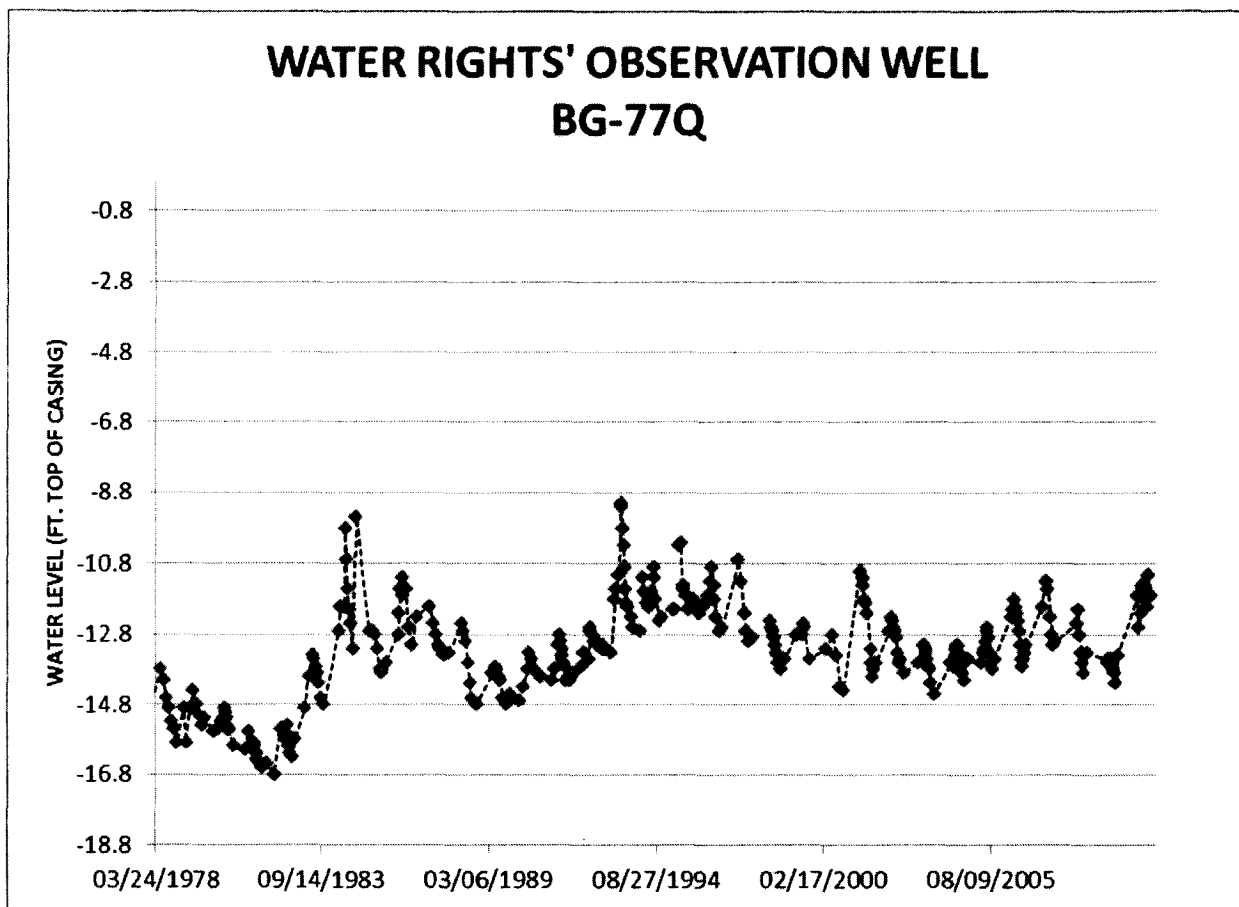


Figure 1. Hydrograph for Water Rights Observation Well BG-77Q, completed into the Big Sioux Brookings Aquifer within two miles of 7252-3 (Water Rights, 2011)

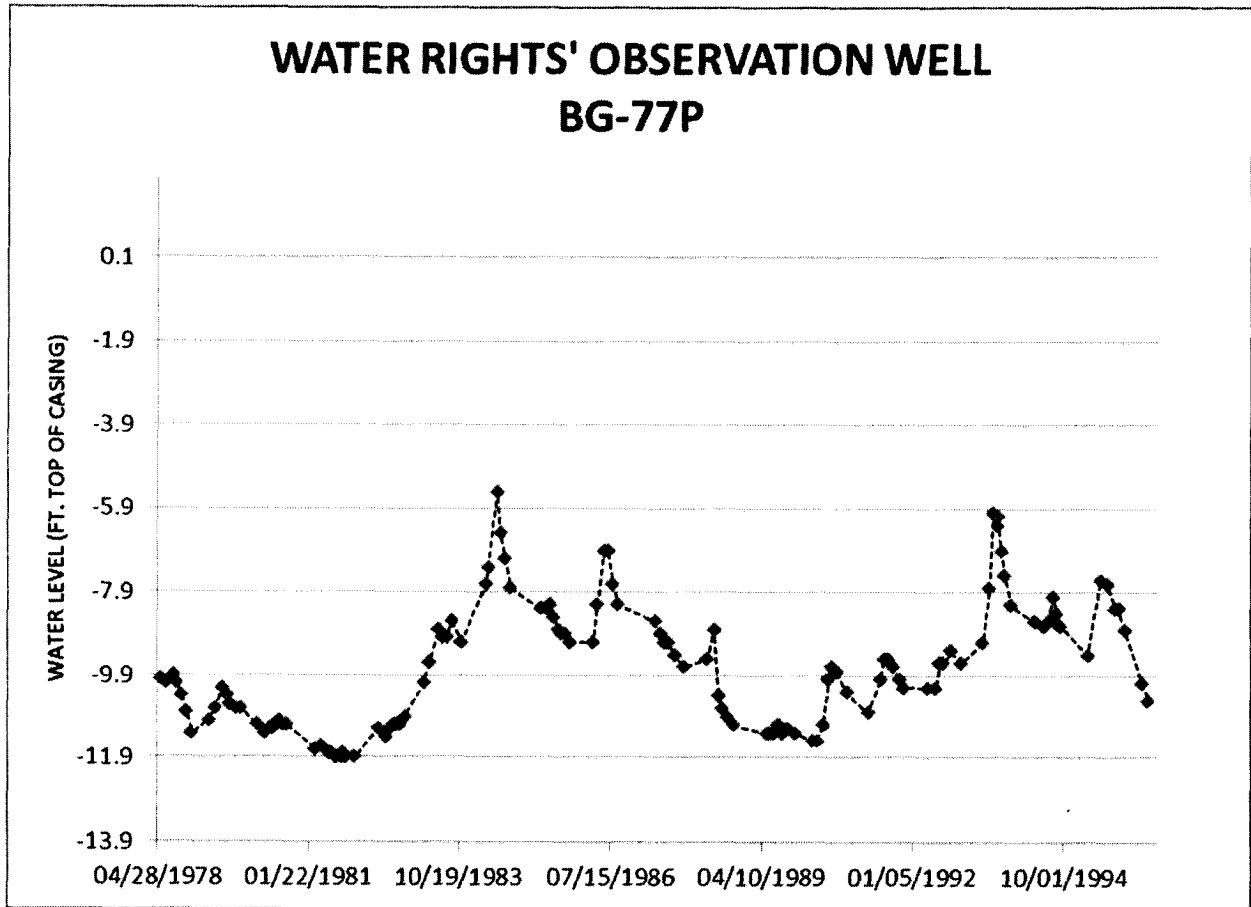


Figure 2. Hydrograph for Water Rights Observation Well BG-77P, completed into the Big Sioux Brookings Aquifer within two miles of 7252-3 (Water Rights, 2011)

In general, the hydrographs show that over the period of record, withdrawals have not exceeded recharge.

Review of Existing Water Permits/Rights/Water Use:

Records of irrigation use from the Brookings management unit of the Big Sioux Aquifer date back to 1979.

Table 1 shows the number of appropriations, the total amount of water appropriated, and the reported amount of water pumped for each year. The average number of appropriations is just over 165, with the average annual appropriation being nearly 70,000 acre-feet and the average annual pumpage reported at over 8,400 acre-feet.

IRRIGATION USE (ac-ft/yr) BS:B			
Year	Number of Appropriations	Appropriation (ac-ft/yr)	Pumpage Reported (ac-ft/yr)
2009	174	65098.40	9172.90
2008	166	62761.80	12505.85
2007	164	62374.80	12730.13
2006	161	61075.80	14325.04
2005	159	61435.80	11513.48
2004	156	60695.80	11809.91
2003	149	58970.80	11380.47
2002	149	59186.80	12410.94
2001	149	59312.80	8384.81
2000	153	60799.80	8933.72
1999	155	62181.30	7841.04
1998	157	63306.20	8109.71
1997	153	62281.70	5650.00
1996	154	62575.20	7220.95
1995	161	62961.20	3862.25
1994	160	64395.20	2854.62
1993	162	64963.70	1042.90
1992	162	64603.70	2331.60
1991	165	65534.97	7771.74
1990	175	71616.95	5862.92
1989	166	69391.27	13930.70
1988	167	74615.27	18521.40
1987	171	76624.07	10015.00
1986	179	80788.57	2854.70
1985	181	81385.57	4951.40
1984	188	84188.07	8177.60
1983	161	74854.57	8227.46
1982	155	77754.00	4551.86
1981	196	91361.00	9040.00
1980	187	87093.00	9837.00
1979	184	85701.00	6144.00
AVERAGE	165.13	69028.68	8450.52
MAXIMUM	196	91361.00	18521.40
MINIMUM	149	58970.80	1042.90

Table 1. Irrigation usage from the Brookings management unit of the Big Sioux aquifer (Water Rights, 1979-2009).

There are two existing water permits/rights for irrigation located within one mile of this application. Water levels may fluctuate as a result of area pumping but this does not affect the availability of water from the aquifer.

Recharge:

The Big Sioux aquifer is recharged from several sources. Recharge to the Big Sioux aquifer occurs through infiltration of precipitation and by slow seepage through till, lake deposits, and underlying aquifers (Hamilton, 1989).

Conclusions:

1. Water is available from the Brookings management unit of the Big Sioux aquifer.
2. The aquifer appears to be under water table conditions at this location. Drawdown will result from pumping. Interference is not expected to be a problem.
3. If the well covered by this Permit depletes the domestic supplies or interferes with prior water rights, restrictions or other arrangements may be required to protect these water supplies.
4. This well must be constructed in accordance with SD Well Construction Standards.



Hayes Haas
Natural Resources Engineer

Bibliography:

Hamilton, L.J., 1989, Water Resources of Brookings and Kingsbury Counties, South Dakota, Water Resources Investigations Report 88-4185, USGS, Huron, SD 57350

Hedges, L.S. et al, 1982, Evaluation of Ground-Water Resources Eastern South Dakota and Upper Big Sioux River, South Dakota and Iowa, for the U.S. Army Corps of Engineers, SD DENR, SDGS, Vermillion, SD 57069

Water Rights, 2011, Irrigation Summaries 1979-2009, SD DENR, Division of Water Rights, Pierre, SD, 57501

Water Rights, 2011, Unpublished Observation Well Records for Brookings County, SD DENR, Division of Water Rights, Pierre, SD, 57501

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JUL - 7 2011

WATER RIGHTS
PROGRAM

Affidavit of Publication

State of South Dakota

Exhibit "A"

ss

County of Brookings

Laura Johnson of said county, first duly sworn, on oath, says: That she is the office clerk of THE BROOKINGS REGISTER, a daily newspaper, printed and published in the City of Brookings, in said County of Brookings, and State of South Dakota; that she has full and personal knowledge of the facts herein stated; that said newspaper is a legal newspaper and has a bona fide circulation of at least two hundred copies of each issue daily; that said newspaper has been published within the said County of Brookings and State of South Dakota, for more than one year prior to the first publication of Exhibit "A," hereto attached and herein mentioned, and was and is printed that the

Leg# 943 Notice of Application

same was published, is hereto attached marked Exhibit said newspaper for _____ 2 times, to-wit:

June 23, 2011

June 30, 2011

said Exhibit "A" inures to the sole benefit for the publishers of said newspaper; that no agreement or understanding for the division thereof has been made with any other person, and that no part thereof has been agreed to be paid to any person whomsoever; that the fees charged for the publication thereof are:

Forty dollars and eighty-four cents \$40.84



Subscribed and sworn to before me this

1st

day of

July

2011

Katie Cobb

Notary Public in and for the County of Brookings, South Dakota.

My Commission expires July 14, 2015

Legal 943, 2x, 6/23, 30
NOTICE OF APPLICATION NO. 7252-3 to
Appropriate Water

Notice is given that the South Dakota Crop Improvement Association, 2380 Research Park Way, Suite 136, Brookings SD 57006 has filed an application for a water permit to appropriate 0.133 cubic feet of water per second from one well to be completed into the Big Sioux: Brookings Aquifer (approximately 50 feet deep) located in NW 1/4 SW 1/4 Section 26 for irrigation of 20 acres located in the NW 1/4 SW 1/4 Section 26; all in T110N-R51W.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 7252-3 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. In accordance with SDCL 46-2A-23, the Chief Engineer will act on this application, as recommended, unless a petition is filed opposing the application or the applicant files a petition contesting the Chief Engineer's recommendation. 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. 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 July 11, 2011.

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. Contact Eric Gronlund at the above Water Rights Program address to request copies of information pertaining to this application. Steven M. Pirner, Secretary, Department of Environment and Natural Resources. Published twice at the total approximate cost of \$40.84



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

PMB 2020
JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182
www.state.sd.us/denr

June 15, 2011

Brookings Register
PO Box 177
Brookings SD 57006

ATTENTION: Legal Public Notice

Enclosed is a Notice on Application No. 7252-3 to Appropriate Water to be published twice. Please publish the first notice on June 23, 2011 with the second publication 7 days later. The text of the notice can be e-mailed to your paper by contacting Karen Schlaak at (605) 773-3352.

The applicant must verify to you that the notice is to be published, before you make the first publication. **Please BILL the APPLICANT for the cost of publication.** The APPLICANT is South Dakota Crop Improvement Assn., c/o Neal R Foster, 2380 Research Park Way # 136, Brookings SD 57006 (Ph # 605-688-4604).

Please send the Water Rights Program the first publication immediately. The publication is checked for accuracy so any corrections can be made in the second publication. You may use the form below or fax a copy of the first publication. Any fax should be sent to the attention of Karen Schlaak at (605) 773-4068. Publication errors can invalidate the public notice.

After the second publication, **please send us an affidavit or use the enclosed Proof of Publication form.** The applicant pays the cost of publication, but the Water Rights Program records require an affidavit or Proof of Publication. Delays in receiving the affidavit can be costly to the applicant.

Sincerely,

Eric Gronlund
Natural Resources Engineer
605 773-3352

enclosures

-----CUT HERE-----

No. 7252-3

TO: Eric Gronlund
Water Rights Program
Joe Foss Building
Pierre SD 57501-3181

Date _____

We are in receipt of your letter of June 15, 2011 enclosing Notice to Appropriate Water by Application No. 7252-3 which was first published in our issue of _____. **ENCLOSED IS A COPY OF THIS FIRST PUBLICATION.**

Name

Newspaper



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

PMB 2020
JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182
www.state.sd.us/denr

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

June 15, 2011

South Dakota Crop Improvement Assn
Neal R Foster
2380 Research Park Way # 136
Brookings SD 57006

Dear Mr. Foster:

Water Permit Application No. 7252-3 for irrigation use has been examined and found to comply with the South Dakota Water Laws and applicable rules. A notice has been sent to the Publisher of the Brookings Register printed at Brookings SD (Ph # 605-692-6271). 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, the publisher has been instructed to publish your notice once each week for two consecutive weeks. 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
eric.gronlund@state.sd.us

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.

Instruction to Newspaper - Publish first Notice on June 23, 2011 with the second publication 7 days later. The applicant is responsible for payment. The text of the notice can be e-mailed to your paper by contacting Karen Schlaak at (605) 773-3352 or email: Karen.schlaak@state.sd.us.

NOTICE OF APPLICATION NO. 7252-3 to Appropriate Water

Notice is given that the South Dakota Crop Improvement Association, 2380 Research Park Way, Suite 136, Brookings SD 57006 has filed an application for a water permit to appropriate 0.133 cubic feet of water per second from one well to be completed into the Big Sioux:Brookings Aquifer (approximately 50 feet deep) located in NW ¼ SW ¼ Section 26 for irrigation of 20 acres located in the NW ¼ SW ¼ Section 26; all in T110N-R51W.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 7252-3 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. In accordance with SDCL 46-2A-23, the Chief Engineer will act on this application, as recommended, unless a petition is filed opposing the application or the applicant files a petition contesting the Chief Engineer's recommendation. 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.

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 July 11, 2011.

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. Contact Eric Gronlund at the above Water Rights Program address to request copies of information pertaining to this application. Steven M. Pirner, Secretary, Department of Environment and Natural Resources.

Published twice at the total approximate cost of_____.



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

PMB 2020
JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182
www.state.sd.us/denr

JUL 21 2011

South Dakota Crop Improvement Assn
Neal R Foster
2380 Research Park Way # 136
Brookings SD 57006

Dear Mr. Foster:

Enclosed is Water Permit No. 7252-3 authorizing construction of your 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,

Garland Erbele, Chief Engineer
Water Rights Program
(605) 773-3352

enclosures

SOUTH DAKOTA WATER WELL COMPLETION REPORT

7252-3

07-92

Location NW 1/4 SW 1/4 Sec 26 Twp 110 N Rg 51 W

County

North

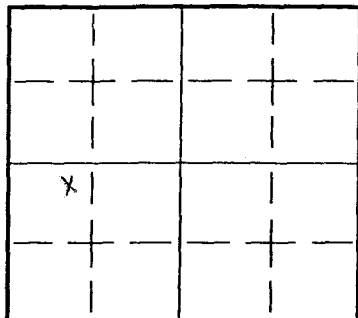
Brookings

Please mark well location with an "X"

W

E

Well Completion Date

8-15-11Well Owner: 90 Greg RedeniefBusiness Name: SBSU FoundationAddress: 815 medary Ave. PO Box 525Brookings SD 57007

WELL LOG:

DEPTH

FORMATION

FROM

TO

Topsoil03Clay34Gravel410Clay lens1012Sand & Gravel1219 1/2"

LOCATION:

Distance from nearest potential pollution source (septic tank, abandoned well, feed lot, etc.)? 1 1/4 mile ft. from Farm Yard (identify source).

PROPOSED USE:

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

METHOD OF DRILLING:

Bucket & False Casing

CASING DATA:

- ☐ Steel ☒ Plastic ☐ Other

If other describe _____

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
<u>20 LB/FT</u>	<u>14 IN</u>	<u>1 1/2 FT</u>	<u>14 FT</u>	<u>20 IN</u>
_____ LB/FT	_____ IN	_____ FT	_____ FT	_____ IN
_____ LB/FT	_____ IN	_____ FT	_____ FT	_____ IN

GROUTING DATA

Grout Type	No. of Sacks	Grout Weight	From	To
<u>Cement</u>	<u>1</u>	_____ lb./gal	<u>0</u> ft.	<u>12</u> ft.
_____	_____	_____ lb./gal	_____ ft.	_____ ft.

Describe grouting procedure TremiedSCREEN: ☐ Perforated pipe ☒ ManufacturedDiameter 1 1/4" IN Length 5 FEETMaterial PVC 160Slot Size .080 Set From 14 Feet to 19 1/2" 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: _____☐ NO, Why Not? _____

Laboratory sent to for water quality analysis

Pellets ChlorineIrrigation

STATIC WATER LEVEL

4'

Feet

If flowing: closed in pressure _____ PSI

GPM flow _____ through _____ inch pipe

Controlled by ☐ Valve ☐ Reducers ☐ Other _____

Reduced Flowrate _____ GPM

Can well be completely shut in? _____

RECEIVED

WELL TEST DATA:

☒ Pumped

Describe: _____

☐ Bailed☐ Other**NOV 17 2011****WATER RIGHTS PROGRAM**

Pumping Level Below Land Surface

17'ft. After 1 Hrs. pumped 160 GPM

ft. After _____ Hrs. pumped _____ GPM

If pump installed, pump rate _____ GPM

REMARKS

Good wellThis well was drilled under license # 111

And this report is true and accurate.

Drilling firm Lacey Well Drilling Inc

Signature of License Representative: _____

Signature of Well Owner or Equitable Property Holder: _____

Date: _____

Report of Examination of Works and/or Application of Water to Beneficial Use For Permit No. 7252-3

I have this day, April 30, 2021, made a thorough examination of the water use system constructed by SD Crop Improvement Association; 2380 Research Park Way, Suite 136, Brookings, SD 57006 of Permit No. 7252-3, bearing the priority of May 18, 2011 authorizing the diversion of 0.133 cu. ft. per second of ground water; Big Sioux; Brookings aquifer for irrigation purposes, in Brookings county.

A. Works used to divert the water:

Well Information:

- 1) Well Drilling Firm: Lacey Well Drilling, Inc.
- 2) No. of Wells 1
- 3) Depth(s) 19.5 feet
- 4) Well log is available Y

Casing:

- 1) Diameter 14 inches
- 2) Length 14 feet
- 3) Type Plastic

Screen:

- 1) Type PVC 160
- 2) Length 5 feet
- 3) Static water level 4 feet

Pump:

- 1) Make NA
- 2) Model submersible
- 3) Size NA
- 4) Capacity 125 GPM (obtained from Driller)

Motor:

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

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

- 1) Type buried pipe
- 2) Size NA inches
- 3) Length 620 feet

C. Works used to apply water to beneficial use:

Portable, hand move pipe and sprinklers

Chemigation Equipment:

- 1) Does chemigate N

D. Compliance with Permit Requirements:

- 1) Permit qualifications being abided by Y
- 2) Irrigation Questionnaires checked to determine if permit owner started irrigation by the end of construction period Y

E. Condition and Location:

1. The system is in good, condition with the point(s) of diversion located as follows: **From the SW corner of Sec 26, T110N, R51W 660 ft E & 2,010 ft N (NW ¼ SW ¼, Sec 26) Lat 44.30243 Long -96.92610**
2. The works are capable of diverting and conveying to the place of use 0.133 cu. ft. per second of water which is to be used for irrigation. Water has been put to beneficial use to the maximum extent as follows:

NW ¼ SW ¼, Sec 26, T110N, R51W

comprising a total of 20 acres of land and the license should be issued for 0.133 cfs.

3. All structures, wells and lands on map Y

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

A conversation with Mr. Neil Foster, Executive Director of the SD Crop Improvement Association, indicated that the well water is used primarily for the misting of research plots at this time in order to establish humid conditions where crop diseases can be studied. Verified by Jack Ingmanson.



Darrell W DeBoer
Water Rights Inspector
DANR, Water Rights Program

Date report completed: May 10, 2021

**NOTE: The pump rate for the well was obtained from Lacey Drilling on October 1, 2021.
Genny**

Well Location

From the SW corner of
Sec 26 T110N-R51W
660 ft E & 2010 ft N
Lat 44.30243
Long -96.92610

Irrigated Acres

All acres in Sec26
T110N-R51W
NW1/4 SW1/4 - 20 ac

Section 26
T110N-R51W

Well
Location



0 0.125 0.25 0.5 0.75 1 Miles



**DEPARTMENT of AGRICULTURE
and NATURAL RESOURCES**

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

OCT 05 2021

7252-3

Neal Foster, Director
SD Crop Improvement Association
2380 Research Park Way Suite 136
Brookings SD 57006

Dear Mr. Foster:

Enclosed is Water License No. 7252-3. This is the final water right document completing your process of obtaining a Water Right. Included with your license is a map prepared by the staff engineer who conducted the field investigation.

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

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

Sincerely,

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

enclosures

Note: The investigation of the water use system found it capable of diverting 0.28 cubic feet of water per second (cfs) which is equivalent to approximately 125 gpm. Diversion of water under this water license is limited to the original permitted amount of 0.133 cfs (approximately 60 gpm)

**STATE OF SOUTH DAKOTA
WATER LICENSE NO. 7252-3**

(1) The South Dakota Crop Improvement Association, 2380 Research Park Way, Suite 136, Brookings SD 57006 made Application No. 7252-3, May 18, 2011 for a water permit to divert 0.133 cubic feet of water per second from ground water, one well – Big Sioux Brookings Aquifer, Brookings County, South Dakota for irrigation purposes. Permit No. 7252-3, with a priority date of May 18, 2011 was approved July 11, 2011 and issued to the applicant for diversion of water with construction of the described water supply system to be completed on or before July 11, 2016 and for the application to beneficial use of water on or before July 11, 2020.

(2) It is certified that the permit holder has complied with the provisions of South Dakota State Law relating to completion of the water supply system and is entitled to divert 0.133 cubic feet of water per second for beneficial use. The diversion point is located:

- 660'E & 2010'N of the SW corner of Section 26, T110N, R51W (NW ¼ SW ¼, Sec 26)
Latitude 44.30243, Longitude -96.92610

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

- 20 acres in the NW ¼ SW ¼ Section 26, T110N, R51W

(4) Pursuant to South Dakota Water Law 46-5-30.1 the South Dakota Crop Improvement Association, 2380 Research Park Way, Suite 136, Brookings SD 57006 the holder and/or owner of Water Right No. 7252-3 is issued a license to appropriate water, the right to use 0.133 cubic feet of water per second from ground water, one well – Big Sioux Brookings Aquifer with a priority date of May 18, 2011 from the location specified in (2) of this license for irrigation purposes.

This license is subject to South Dakota Water Law, any limitations or conditions listed in Water Right No. 7252-3 and subject to the following qualifications:

- The well approved under this water right will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner under this water right 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 well authorized by Permit No. 7252-3 shall be constructed by a licensed well driller and construction of the well and installation of the pump shall comply with the 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. ***The well was drilled in August, 2011 by Lacey Well Drilling Inc. A copy of the well completion report is on file with the Water Rights Program.***
- This Water Right is approved subject to the irrigation water use questionnaire being submitted each year.


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

OCT 05 2021
date

