

DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCESJOE FOSS BUILDING
523 EAST CAPITOL
PIERRE SOUTH DAKOTA 57501-3182
<http://denr.sd.gov>

AUG 02 2017

7389-3
7389A-3Wade A Larson
PO Box 376
Vermillion SD 57069

Dear Mr. Larson:

Enclosed is Water License No. 7389A-3.

On July 21, 2017, an ownership change was filed with Water Right No. 7389-3. Based on the ownership change, the water license was divided and reissued to reflect separate ownership as follows:

- **No. 7389A-3 – Wade A Larson, PO Box 376, Vermillion SD 57069** authorizing diversion of 1.60 cfs from one well located in the SW $\frac{1}{4}$ SW $\frac{1}{4}$ Section 17 to irrigate 137 acres in the SW $\frac{1}{4}$ and SW $\frac{1}{4}$ SE $\frac{1}{4}$ Section 17, T93N, R53W;
- **No. 7389B-3 – DGL Farmland Holdings, GP, 18 Crescent Key, Bellevue WA 98006** authorizing diversion of 1.51 cfs from one well located in the approximate center of the NW $\frac{1}{4}$ Section 20 to irrigate 129 acres located in the NW $\frac{1}{4}$ Section 20, T93N, R53W.

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.

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
REISSUED WATER LICENSE NO. 7389A-3
DIVISION OF NO. 7389-3 INTO 7389A-3 & 7389B-3

(1) Wade A Larson, PO Box 376, Vermillion SD 57069 was issued Water License No. 7389-3, October 11, 2016 for a water right to divert 3.11 cubic feet of water per second (cfs) from ground water, two wells, Missouri Elk Point Aquifer, Yankton County, South Dakota for irrigation purposes. Water License No. 7389-3, with a priority date of July 23, 2012 was issued to the permit holder for diversion of water with construction of the described water supply system and application to beneficial use of water completed.

Water Right No. 7389-3 authorizes diversion of 3.11 cfs from two wells located in the SW $\frac{1}{4}$ SW $\frac{1}{4}$ Section 17 and approximate center of the NW $\frac{1}{4}$ Section 20 to irrigate 266 acres located in the S $\frac{1}{2}$ Section 17 and the NW $\frac{1}{4}$ Section 20, all in T93N, R53W.

On July 21, 2017, an ownership change was filed with Water Right No. 7389-3 to transfer the land located in the NW $\frac{1}{4}$ Section 20, T93N, R53W. Based on the ownership change, the water license is being divided and reissued to reflect separate ownership as follows:

- **No. 7389A-3 – Wade A Larson, PO Box 376, Vermillion SD 57069** authorizing diversion of 1.60 cfs from one well located in the SW $\frac{1}{4}$ SW $\frac{1}{4}$ Section 17 to irrigate 137 acres in the SW $\frac{1}{4}$ and SW $\frac{1}{4}$ SE $\frac{1}{4}$ Section 17, T93N, R53W;
- **No. 7389B-3 – DGL Farmland Holdings, GP, 18 Crescent Key, Bellevue WA 98006** authorizing diversion of 1.51 cfs from one well located in the approximate center of the NW $\frac{1}{4}$ Section 20 to irrigate 129 acres located in the NW $\frac{1}{4}$ Section 20, T93N, R53W.

(2) It is certified that the water right has complied with the provisions of South Dakota State Law relating to completion of the water supply system and is entitled to divert 1.60 cubic feet of water per second for beneficial use. The location of the diversion point:

- 1,150'E and 1,150'N of the SW Corner of Sec 17-T93N-R53W (SW $\frac{1}{4}$ SW $\frac{1}{4}$)
Latitude 42.86962, Longitude -97.13766

(3) The water right 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:

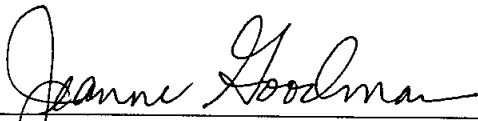
Sec 17-T93N-R53W	NW $\frac{1}{4}$ SW $\frac{1}{4}$ - 25 acres	SW $\frac{1}{4}$ SE $\frac{1}{4}$ - 26 acres
	SW $\frac{1}{4}$ SW $\frac{1}{4}$ - 34 acres	
	NE $\frac{1}{4}$ SW $\frac{1}{4}$ - 15 acres	
	SE $\frac{1}{4}$ SW $\frac{1}{4}$ - 37 acres	Total 137 acres

(4) Pursuant to South Dakota Water Law 46-5-30.1 Wade A Larson, PO Box 376, Vermillion SD 57069 the holder and/or owner of Water Right No. 7389A-3 is issued a license to appropriate water, the right to use 1.60 cubic feet of water per second from ground water, one well (Missouri Elk Point Aquifer) with a priority date of July 23, 2012 from the location specified in (2) of this license for irrigation purposes.

continued

This license is subject to South Dakota Water Law, any limitations or conditions listed in Water Right No. 7389-3 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 well authorized by Water Permit No. 7389-3 (**7389A-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 by Hammond Wetmore Drilling LLC in December, 2012. A copy of the well log is on file with the Water Rights Program.*
- This Permit is approved subject to the irrigation water use questionnaire being submitted each year.



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

AUG 02 2017

date



SOUTH DAKOTA WATER WELL COMPLETION REPORT

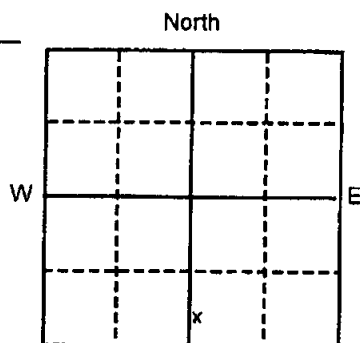
7389-3 SD EFOH

7389A-3

Location SW 1/4 SE 1/4 Sec 17 Twp 93N Rg 53W

County CLAY

Please mark well location with an "X"



Well Completion Date

December 1, 2012

Distance to nearest potential pollution source (septic tank, abandoned well, feed lot, etc.)?
670.0 ft. from Septic Tank (identify source)

PROPOSED USE:

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

METHOD OF DRILLING:

Reverse Rotary

CASING DATA:

If other describe ☐ Steel ☒ Plastic ☐ Other

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
LB/FT	<u>16.00</u> IN	<u>0.0</u> FT	<u>40.0</u> FT	<u>26.00</u> IN
LB/FT	IN	FT	FT	IN
LB/FT	IN	FT	FT	IN

GROUTING DATA:

Grout Type	No. of Sacks	Grout Weight	From	To
<u>Bentonite</u>	<u>13</u>	<u>9.5</u> Lb/gal	<u>0.0</u> Ft	<u>35.0</u> Ft
		Lb/gal	Ft	Ft

Describe grouting procedure
Tremie Method

SCREEN:

☐ Perforated pipe ☒ Manufactured
 Diameter 16.00 Inches Length 60.0 Feet

Material PVC

Slot Size .080 Set From 40.0 Feet to 100.0 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? Not Required
 Lab to which water quality sample sent for analysis

Well Owner: Wade A. Larson

Business Name:

Address: 501 Oakmount Dr

City, State, Zip: Vermillion SD 57069

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
Top Soil	0	8
Brown Clay	8	15
Sand	15	30
Glacial Till	30	73
Poorly Sorted Gravel	73	95
Rocks	95	100

STATIC WATER LEVEL 18.0 FEET

If flowing: closed in pressure _____ PSI

GPM flow _____ through _____ Inch pipe

Controlled by ☐ Valve ☐ Reducers ☐ Other

Reduced flow rate _____ GPM

Can well be completely shut in?

WELL TEST DATA:

☒ Pumped Describe:

☐ Bailed

☐ Other

Pumping Level Below Land Surface

29.0 Ft. After 4.0 Hrs. pumped 700.0 GPM

39.5 Ft. After 6.5 Hrs. pumped 1,200.0 GPM

If pump installed, pump rate: _____ GPM

REMARKS

RECEIVED

APR 22 2013

WATER RIGHTS PROGRAM

This well was drilled under license # 666 and this report is true and accurate.

Drilling firm: Hammond Wetmore Drilling, LLC

Signature of License Representative:

[Signature]

Signature of Well Owner or Equitable Property Holder:

Date: 4/11/13

7389A-3
(portions in Sec 17)**Report of Examination of Works and/or Application of Water to Beneficial Use
For Permit No. 7389-3**

I have this day, April 13, 2016, made a thorough examination of the water use system constructed by Wade A Larson, 501 Oakmont Dr, Vermillion SD 57069 of Permit No. 7389-3, bearing the priority of July 23, 2012 authorizing the diversion of 3.11 cu. ft. per second of the waters of Missouri:Elk Point Aquifer for irrigation purposes, in Clay County.

Inspection contact & relationship **Wade A Larson, permit holder**
to permit holder, if applicable:

A. Works used to divert the water:**Well #1 Information (SW ¼ Sec 17-T93N-R53W):**

- 1) Well Drilling Firm: Hammond-Wetmore Drilling, LLC
- 2) No. of Wells 1
- 3) Depth(s) 100 feet
- 4) Well log is available Yes

Casing:

- 1) Diameter 16 inches
- 2) Length 40 feet
- 3) Type PVC

Screen:

- 1) Type PVC Manufactured
- 2) Length 60 feet
- 3) Static water level 18 feet

Pump:

- 1) Make Unknown
- 2) Model Submersible
- 3) Capacity 700 GPM

Motor:

- 1) Make Unknown
- 2) Model No. Submersible
- 3) Horsepower rating 40 hp

Well #2 Information (NW ¼ Sec 20-T93N-R53W):

- 1) Well Drilling Firm: Hammond-Wetmore Drilling, LLC
- 2) No. of Wells 1
- 3) Depth(s) 108 feet
- 4) Well log is available Yes

Casing:

- 1) Diameter 16 inches
- 2) Length 88 feet
- 3) Type PVC

Screen:

- 1) Type PVC Manufactured
- 2) Length 20 feet
- 3) Static water level 23 feet

Pump:

- 1) Make Unknown
- 2) Model Submersible
- 3) Capacity 700 GPM

Motor:

- 1) Make Unknown
- 2) Model No. Submersible
- 3) Horsepower rating 40 hp

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

- 1) Type PVC
- 2) Size 8 inches
- 3) Length 2030 feet

Comments: See map for approximate location.

C. Works used to apply water to beneficial use:

Center pivot #1 (SW ¼ Sec 17-T93N-R53W):

- 1) Make Valley
- 2) Overall length 1110 feet
- 3) Number of towers 6
- 4) End gun Yes
- 5) Capacity 700

Center pivot #2 (SE ¼ SW ¼ & SW ¼ SE ¼ Sec 17-T93N-R53W):

- 1) Make Valley
- 2) Overall length 910 feet
- 3) Number of towers 5
- 4) End gun Yes
- 5) Capacity 700

Center pivot #3 (NW ¼ Sec 20-T93N-R53W):

- 1) Make Valley
- 2) Overall length 1300 feet
- 3) Number of towers 7
- 4) End gun Yes
- 5) Capacity 700

Comments: Center Pivot's #1 & #2 fed from Well #1 are set up so that only one center pivot can be operated at a time.

Chemigation Equipment:

- 1) Does chemigate No

D. Compliance with Permit Requirements:

- 1) Permit qualifications being abided by Yes
- 2) Irrigation Questionnaires checked to determine if permit owner started irrigation by the end of construction period Yes, began irrigating in 2013.

List any extended period of nonuse: None

- 3) Exceptions to compliance are: None

E. Condition and Location:

1. The system is in good condition with the point(s) of diversion located as follows: Well #1-East 1150', North 1150' from SW Corner of Sec 17-T93N-R53W; Lat 42.86962/Long -97.13766; SW ¼ SW ¼ Sec 17-T93N-R53W;
Well #2-East 1350', South 1340' from NW Corner of Sec 20-T93N-R53W; Lat 42.86275/Long -97.13685; approximate center of NW ¼ Sec 20-T93N-R53W.

Report of Examination of Works
Permit No. 7389-3

2. The works are capable of diverting and conveying to the place of use 3.11 cfs or 1400 gpm of water from two wells which is to be used for irrigation. Water has been put to beneficial use to the maximum extent as follows:

Sec 17-T93N-R53W.

NW ¼ SW ¼ - 25 ac

SW ¼ SW ¼ - 34 ac

SW ¼ SE ¼ - 26 ac

Sec 20-T93N-R53W.

NW ¼ NW ¼ - 28 ac

SW ¼ NW ¼ - 34 ac

NE ¼ SW ¼ - 15 ac

SE ¼ SW ¼ - 37 ac

NE ¼ NW ¼ - 34 ac

SE ¼ NW ¼ - 33 ac

comprising a total of 266 acres of land and the license should be issued for 3.11 cfs or 1400 gpm from two wells.

3. All structures, wells and lands on map Yes

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

Permit holder stated that S ½ NW ¼ Sec 20-T93N-R53W was owned by Charles Amant and they irrigate for him and his renter.

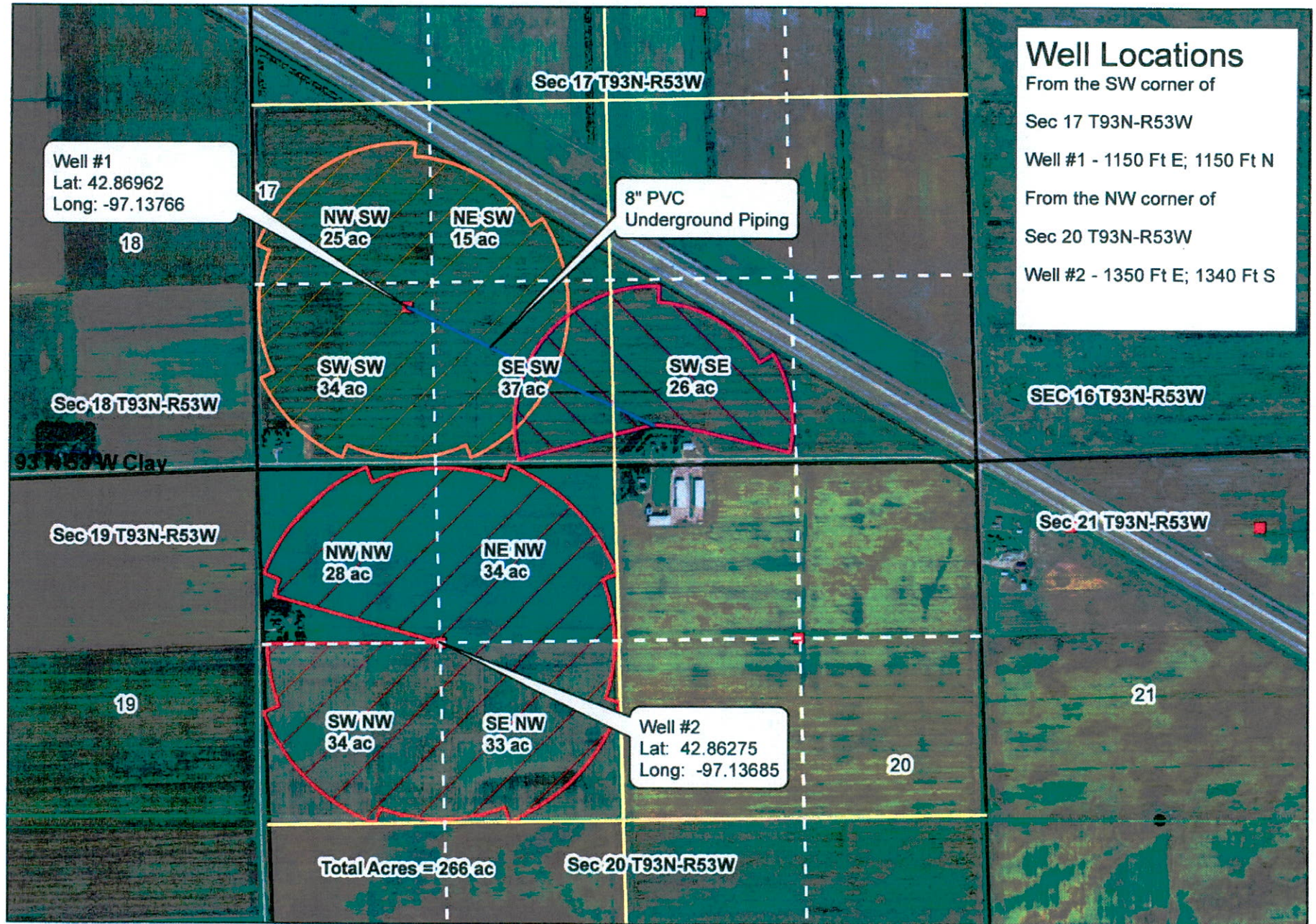
Three acres in SE ¼ SW ¼ Sec 17-T93N-R53W are overlapped by Center Pivot's #1 & #2.

Harold Holoch

Harold Holoch, PE
Engineer Water Rights Inspector
DENR, Water Rights Program

Date report completed: August 12, 2016

7389-3



Well Locations

From the SW corner of

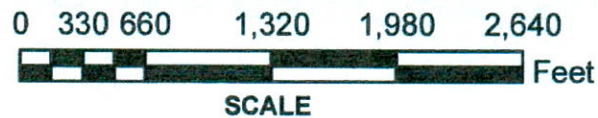
Sec 17 T93N-R53W

Well #1 - 1150 Ft E; 1150 Ft N

From the NW corner of

Sec 20 T93N-R53W

Well #2 - 1350 Ft E; 1340 Ft S



Harold Holoch
Harold Holoch, PE
Water Rights Inspector
August 11, 2016



7389A-3
DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

January 25, 2019

NOTICE

TO: WADE A LARSON, PO BOX 376, VERMILLION, SD 57069 0376
FROM: Ron Duvall, Natural Resources Engineer
for Jeanne Goodman, Chief Engineer
Water Rights Program

SUBJECT: Reporting Requirement for 2018 Irrigation Questionnaire(s)

Our records indicate your 2018 Irrigation Questionnaire(s) has not been submitted for Permit No(s) 6770-3, 6900-3 & 7389A-3. The request for the Questionnaire was dated October 30, 2018. The Water Management Board has directed that owners of water permits who have not submitted the 2018 Irrigation Questionnaire(s) be given notice of permit violation and a hearing to be held by the Board. The hearing is to determine what action is to be taken for violation of Water Permit No(s) 6770-3, 6900-3 & 7389A-3 qualification:

"This permit is approved subject to the Irrigation Water Use Questionnaire being submitted each year."

The hearing will be held at **Wednesday, March 6, 2019 at 10:30 am (Central Time)** in the Floyd Matthew Training Center, Joe Foss Building, 523 E Capitol Avenue, Pierre, SD and will be conducted pursuant to SDCL 46-1-12, 46-1-14, 46-2-9, 46-2-11 and 46-2-17. These are contested case hearings pursuant to Chapter 1-26. According to SDCL 46-1-12, the Board may suspend a permit for a period of up to one year for the first violation of a permit qualification or up to three years for a second violation, or cancel a permit for a third violation. Following the hearing, the Water Management Board can:

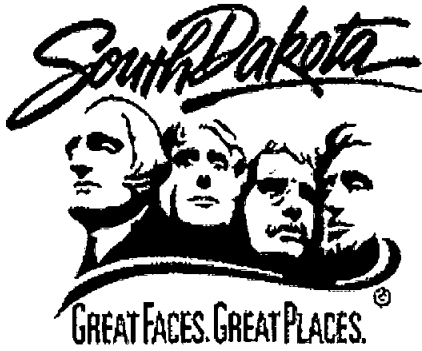
1. Suspend or cancel Permit No(s) 6770-3, 6900-3 & 7389A-3 in accordance with applicable provisions of SDCL 46-1-12;
2. Postpone any action; or
3. Take no action.

The hearing is an adversary proceeding. The permit owner has the right to be present or to be represented by a lawyer. These and other due process rights will be forfeited if they are not exercised. Decisions of the Board may be appealed to the Circuit Court and the State Supreme Court as provided by law.

If the questionnaire(s) is (are) received in this office before the **March 6, 2019** hearing you will no longer be in violation of your permit and your name will be removed from the Board agenda. Enclosed are additional questionnaire(s) for your use. If you have questions or need assistance, please contact Genny McMath at (605) 773-3352 or email at genny.mcmath@state.sd.us. If you prefer, you can complete the questionnaire online at the following link: <http://denr.sd.gov/iq.aspx>

NOTE: Please contact the Water Rights Program, Joe Foss Building, 523 E Capitol, Pierre, SD (605-773-3352) to assure access to the meeting room for the handicapped or to obtain an interpreter for the hearing impaired.

7389A-3



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE SOUTH DAKOTA 57501-3182
www.denr.sd.gov

February 21, 2019

6770-3
6900-3
7389A-3

Wade A Larson
PO Box 376
Vermillion SD 57069-0376

Dear Mr. Larson:

I am writing to acknowledge receipt of your 2018 irrigation questionnaires.

You may disregard the January 25, 2019, "Notice" concerning reporting requirements for Water Right Nos. 6770-3, 6900-3 & 7389A-3. The information was received in our office prior to the Water Management Board meeting and your name has been deleted from the agenda.

If you have any questions, please contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Genny McMath". The signature is fluid and cursive.

Genny McMath
Water Rights Program
(605) 773-3352
email: genny.mcmath@state.sd.us