

WATER PERMIT NO. 8214-3

Name of Applicant: City of Huron

Address: PO Box 1369, Huron SD 57350 Phone: 605 353-4931

Amount of Water Claimed: 0.082 cfs (37 gpm) Total Acres: NA

Source of Water Supply: groundwater (1 existing wells)

Water to be used for: municipal County: Beadle

Type of Waste Disposal System:

Location:

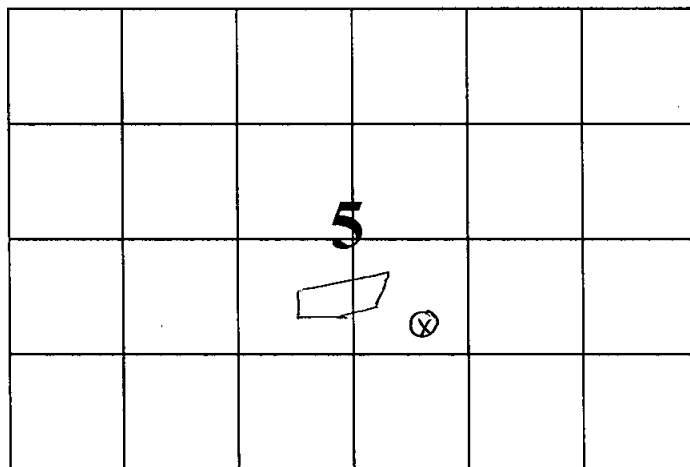
PRIORITY Date Received: 3-31-16 Application/License Fee: \$ 300

Corrected Application Received: Period of Annual Use: May 1 – September 30

Remarks: Increase diversion rate authorized by Waer Right No. 6321-3 for 18 gpm to 55 gpm

Diversion Point: NW 1/4 SE 1/4 Sec 5-T110N-
R61W

Land to be Irrigated: garden area located in the
NE 1/4 SW 1/4 and NW 1/4 SE 1/4 Sec 5-T110N-
R61W



Depth of Well: 85 feet deep

Well Driller:

Remarks:

Type of Map: aerial

Prepared by:

Reviewed and the Number Assigned on: 3-31-16

By: **Karen Schlaak**

Notice of Hearing - date to intervene: _____

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MAR 31 2016

WATER RIGHTS
PROGRAM

Mail to: DENR - Water Rights 523 E Capitol Ave Pierre, SD 57501-3182 ph. (605) 773-3352	No. <u>8214-3</u> (office use only) Hydrologic Unit <u>10160006</u>
	Basin <u>James River</u>
	Newspaper <u>The Daily Plainsman</u>
	<u>Huron</u> <u>605-353-7401</u>

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 <u>Water Compost and gardening</u> | |

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.)

Installation of a 55 GPM pump to replace
a pump currently in the well LWR No. 6321-3

1. Name to Appear on Water Permit City of Huron, Garbage
 Mailing Address PO Box 1369 Huron SD 57350
(Address) (City) (State) (Zip Code)

Phone (605) 353-8509 Mobile (605) 353-4931 Email dale.f@huron.sd.gov
C 37 gpm additional

2. Amount of water claimed 0.082 *CFS or 55 **GPM and --- ***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 Existing well

4. Location of point of diversion NW 1/4 SE 1/4 Sec 5 T110N R61W County Beadle
(example - 3 wells in SW 1/4 NE 1/4 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? _____

(example - NW 1/4 section 12-T104N-R53W)

5. County or counties where water will be used Beadle

6. Annual period during which water is to be used May 1 - September 30

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)

Project goals are to increase usable
water from a good well source.
Garden area - NE 1/4 SW 1/4 & NW 1/4 SE 1/4 Sec 5- T110N R61W

I, Mike Ueber, CITY ENGINEER, 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. 8214-3

Date of first receipt of application March 31, 2016.

The Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 8214-3 to the City of Huron, c/o Mike Wever, City Engineer, PO Box 1369, Huron SD 57350 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. 8214-3 appropriates an additional 0.082 cubic feet of water per second (cfs) to what is currently authorized by Water Right No. 6321-3. Water Right No. 6321-3 appropriates 0.04 cfs from one well completed into the Floyd:East James Aquifer (85 feet deep) located in the NW 1/4 SE 1/4 Section 5-T110N-R61W for municipal purposes. This permit authorizes an additional 0.082 cfs from the existing well to be used for municipal purposes of supplying moisture to the compost site and supplying water to a community garden located in the NE 1/4 SW 1/4 and the NW 1/4 SE 1/4 Section 5-T110N-R61W. This permit and Water Right No. 6321-3 will increase the water appropriation from the existing well from 18 gallons per minute to 55 gallons per minute.
2. The water appropriated shall be used for the purpose of municipal 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: May 1 – September 30.
4. The date of approval of Permit No. 8214-3 is July 5, 2016.
5. The date from which applicant may claim right is March 31, 2016.
6. One-fifth of the construction is to be completed on or before January 5, 2019.
7. All construction is to be completed on or before July 5, 2021.
8. Water is to be put to beneficial use on or before July 5, 2025.
9. Water rights obtained in compliance with the laws of the State of South Dakota may not be unlawfully impaired by this appropriation.

QUALIFICATIONS

1. The well approved under Water Right No. 6321-3 and 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 Floyd:East James Aquifer.
3. Water Right No. 6231-3 and Water Permit No. 8214-3 authorize a combined total annual volume of up to 5 acre feet of water from the Floyd:East James Aquifer.

WATER MANAGEMENT BOARD

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

JUL 27 2016

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 ____ Have test holes been drilled ☐ Yes ☒ No Drilled by ____
(if yes, please provide copies of logs)

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

For either Existing or Proposed Wells:

c) Well Depth (required) 85 ft Depth to Top of Water Bearing Material 45 ft Depth to Water from Surface 40 ft

d) Distance to nearest domestic well on applicant's property 1,500 ft Property owned by others Yes, Roger Styer

2. Wastewater Disposal System Information

a) Type of System (i.e. septic tank, drain field) ____

b) System Capacity (gallons) ____ Year Constructed ____

c) Connected to the City of ____ Sanitary System

3. Dugout Information

a) Surface Dimensions ____ Depth ____

b) Depth to water (ground surface to water level) ____

4. Water Storage Dams

If the proposed water use system contains one or more storage dams, please furnish the information requested below for each dam. The locations of the dams need to be shown on the map submitted with the application.

a) If a private engineering firm or government agency was involved in the design of this dam, please give their name and address:

b) Freeboard ____

c) Crest Width ____

Crest Length ____

d) Height ____

e) Primary Outlet Capacity ____

If pipe, diameter ____

f) Secondary Spillway Capacity ____

Spillway Width ____

g) X & Y Slope (e.g. 3 to 1 is a typical slope)

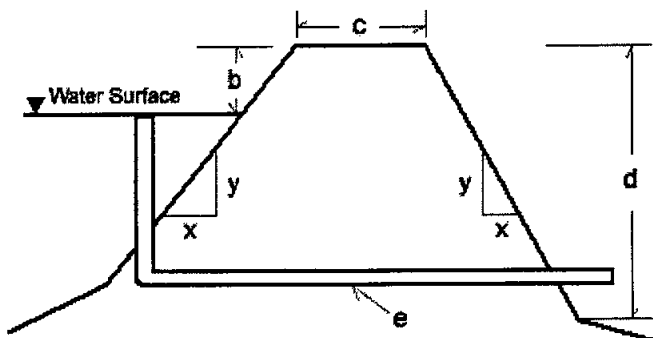
Upstream ____

Downstream ____

h) Surface Area of Impoundment ____

i) Storage ____ Acre Feet

j) Drainage Area Above Dam ____ Acres



FIELD PUMPING TEST

Water Level Measurements

~~Well No. City of Huron, Garbage~~

~~Location: 1901 9th SE Huron, SD~~

Date: 3-4-02

[illegible]



LABORATORY ANALYTICAL REPORT

Client: Huron City of

Report Date: 04/12/02

Project: Restricted Land Site

Collection Date: 03/27/02 13:40

Lab ID: R02030226-001

Date Received: 03/28/02

Client Sample ID: Restricted Land Use Well

Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/	DF	Method	Analysis Date / By
					QCL			
NUTRIENT PARAMETERS								
Nitrogen, Nitrate as N	16	mg/L		0.05		1	E353.2	04/03/02 13:08/BMB

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

Page 1 of 1

ORION CONCENTRATION METHOD - NH3-N MG/L

Date	Time	Initial	STD -	Adjustment	STD -	Adjustment	Filling Solution	Changed Membrane
4-1-02	1:30 P	MR	1.0	-0-	9.5	+1.5	OK	OK
Sample	21st St. Hwy 39							
MG/L	0.14	0.09	0.17					
Date	Time	Initial	STD -	Adjustment	STD -	Adjustment	Filling Solution	Changed Membrane
4-2-02	11:10 AM	PH	1.0	0	10	0	OK	OK
Sample	C4y	#1	#2					
MG/L	24	13	18					
Date	Time	Initial	STD -	Adjustment	STD -	Adjustment	Filling Solution	Changed Membrane
Sample								
MG/L								
Date	Time	Initial	STD -	Adjustment	STD -	Adjustment	Filling Solution	Changed Membrane
Sample								
MG/L								
Date	Time	Initial	STD -	Adjustment	STD -	Adjustment	Filling Solution	Changed Membrane
Sample								
MG/L								
Date	Time	Initial	STD -	Adjustment	STD -	Adjustment	Filling Solution	Changed Membrane
Sample								
MG/L								
Date	Time	Initial	STD -	Adjustment	STD -	Adjustment	Filling Solution	Changed Membrane
Sample								
MG/L								
Date	Time	Initial	STD -	Adjustment	STD -	Adjustment	Filling Solution	Changed Membrane
Sample								
MG/L								
Date	Time	Initial	STD -	Adjustment	STD -	Adjustment	Filling Solution	Changed Membrane
Sample								
MG/L								

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WASTEWATER TREATMENT FACILITY **HURON, SOUTH DAKOTA**

SAMPLE DATA

SAMPLES COLLECTED BY: <i>MR 1PH</i>	TIME: <i>8:30 am</i>	DATE: <i>9-17-01</i>
TIME SAMPLES SET UP: <i>11:45 am</i>	DATE: <i>9-17-01</i>	ANALYZED BY: <i>PH</i>
TIME SAMPLES COME OUT: <i>11:45 am</i>	DATE: <i>9-18-01</i>	ANALYZED BY: <i>PH</i>
TYPE OF SAMPLE: <i>GRAB</i>	COMPOSITE:	OTHER:
WELLS:	WETLANDS:	STAB. CELLS:
		OTHER: <i>Hwy 37-21st ST</i>

FECAL COLIFORM DATA

FECAL COLIFORM COLONIES/100ML = COLIFORM COLONIES COUNTED $\times$ 100

ML SAMPLE FILTERED

SAMPLE	<i>Hwy 37</i>	<i>Hwy 37</i>	<i>21st St</i>	<i>21st St</i>		<i>Blank</i>
DISH NUMBER	<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>		<i>5</i>
SAMPLE VOL. (MLS)	<i>5</i>	<i>.5</i>	<i>3</i>	<i>.3</i>		<i>100</i>
TEMP DEG. C.						
PH						
FECAL COLIFORMS/100ML	<i>52</i> <i>1040</i>	<i>7</i> <i>1400</i>	<i>16</i> <i>533</i>	<i>3</i> <i>1000</i>		<i>0</i>
	<i>(1220)</i>		<i>(767)</i>			

REMARKS:

SAMPLE DATA

SAMPLES COLLECTED BY: <i>MR</i>	TIME: <i>10:30 A</i>	DATE: <i>4-1-02</i>
TIME SAMPLES SET UP: <i>12:30 P</i>	DATE: <i>4-1-02</i>	ANALYZED BY: <i>MR</i>
TIME SAMPLES COME OUT: <i>12:30 P</i>	DATE: <i>4-2-02</i>	ANALYZED BY: <i>MR</i>
TYPE OF SAMPLE: <i>GRAB</i>	COMPOSITE:	OTHER:
WELLS: <i>(Solid waste)</i>	WETLANDS:	STAB. CELLS:
		OTHER: <i>Stoney Run</i>

FECAL COLIFORM DATA

FECAL COLIFORM COLONIES/100ML = COLIFORM COLONIES COUNTED $\times$ 100

ML SAMPLE FILTERED

SAMPLE	<i>21st St.</i>	<i>21st St.</i>	<i>Hwy 37</i>	<i>Hwy 37</i>	<i>Solid waste well</i>	<i>Solid waste well</i>	<i>Blank</i>
DISH NUMBER							
SAMPLE VOL. (MLS)	<i>5ml</i>	<i>.5ml</i>	<i>5ml</i>	<i>.5ml</i>	<i>100ml</i>	<i>25ml</i>	<i>100ml</i>
TEMP DEG. C.							
PH							
FECAL COLIFORMS/100ML	<i>8</i> <i>160</i>	<i>0</i> <i>0</i>	<i>2</i> <i>40</i>	<i>0</i> <i>0</i>	<i>0</i> <i>0</i>	<i>0</i> <i>0</i>	<i>0</i> <i>0</i>

REMARKS:

PROCEDURES STD. METHODS: 9222 D

FECAL

WASTEWATER TREATMENT FACILITY
HURON, SOUTH DAKOTA

SAMPLE DATA

SAMPLES COLLECTED BY: <i>MR/PH</i>	TIME: <i>8:20 AM - 8:30 AM</i>	DATE: <i>5-13-02</i>
TIME SAMPLES SET UP: <i>12:15 PM</i>	DATE: <i>5-13-02</i>	ANALYZED BY: <i>MR</i>
TIME SAMPLES COME OUT: <i>12:15 PM</i>	DATE: <i>5-14-02</i>	ANALYZED BY: <i>MR</i>
TYPE OF SAMPLE: <i>GRAB</i>	COMPOSITE:	OTHER: <i>Stoney Run</i>
WELLS:	WETLANDS:	OTHER: <i>21ST ST - HWY 37</i>
	STAB. CELLS:	

FECAL COLIFORM DATA

FECAL COLIFORM COLONIES/100ML = COLIFORM COLONIES COUNTED $\times$ 100

ML SAMPLE FILTERED

SAMPLE	<i>21ST ST</i>	<i>21ST ST</i>	<i>HWY 37</i>	<i>HWY 37</i>	<i>Well</i>	<i>Blank</i>
DISH NUMBER						
SAMPLE VOL. (MLS)	<i>5</i>	<i>.5</i>	<i>5</i>	<i>.5</i>	<i>100</i>	<i>100</i>
TEMP DEG. C.						
PH						
FECAL	<i>4</i>	<i>0</i>	<i>7</i>	<i>0</i>	<i>0</i>	<i>0</i>
COLIFORMS/100ML	<i>80</i>	<i>0</i>	<i>140</i>	<i>0</i>	<i>0</i>	<i>0</i>

REMARKS: *Well at Solid waste*

SAMPLE DATA

SAMPLES COLLECTED BY:	TIME:	DATE:
TIME SAMPLES SET UP:	DATE:	ANALYZED BY:
TIME SAMPLES COME OUT:	DATE:	ANALYZED BY:
TYPE OF SAMPLE:	GRAB:	COMPOSITE:
WELLS:	WETLANDS:	STAB. CELLS:
		OTHER:

FECAL COLIFORM DATA

FECAL COLIFORM COLONIES/100ML = COLIFORM COLONIES COUNTED $\times$ 100

ML SAMPLE FILTERED

SAMPLE						
DISH NUMBER						
SAMPLE VOL. (MLS)						
TEMP DEG. C.						
PH						
FECAL						
COLIFORMS/100ML						

REMARKS:

PROCEDURES STD. METHODS: 9222 D

FECAL

WASTEWATER TREATMENT FACILITY
HURON, SOUTH DAKOTA

SAMPLE DATA

SAMPLES COLLECTED BY: <i>MRIPH</i>	TIME: <i>8:20 AM - 8:30 AM</i>	DATE: <i>5-13-02</i>
TIME SAMPLES SET UP: <i>12:15 PM</i>	DATE: <i>5-13-02</i>	ANALYZED BY: <i>MR</i>
TIME SAMPLES COME OUT: <i>12:15 PM</i>	DATE: <i>5-14-02</i>	ANALYZED BY: <i>MR</i>
TYPE OF SAMPLE: <i>GRAB</i>	COMPOSITE:	OTHER: <i>Stoney Run</i>
WELLS:	WETLANDS:	OTHER: <i>21st ST + Hwy 31</i>

FECAL COLIFORM DATA

FECAL COLIFORM COLONIES/100ML = COLIFORM COLONIES COUNTED $\times$ 100

ML SAMPLE FILTERED

SAMPLE	<i>21st ST</i>	<i>21st ST</i>	<i>Hwy 31</i>	<i>Hwy 31</i>	<i>Well</i>	<i>Blank</i>
DISH NUMBER						
SAMPLE VOL. (MLS)	<i>5</i>	<i>.5</i>	<i>5</i>	<i>.5</i>	<i>100</i>	<i>100</i>
TEMP DEG. C.						
PH						
FECAL COLIFORMS/100ML	<i>4</i> <i>80</i>	<i>0</i> <i>0</i>	<i>7</i> <i>140</i>	<i>0</i> <i>0</i>	<i>0</i> <i>0</i>	<i>0</i> <i>0</i>

REMARKS: *Well at Solid Waste*

SAMPLE DATA

SAMPLES COLLECTED BY: <i>Vince</i>	TIME: <i>9:15A</i>	DATE: <i>5-20-02</i>
TIME SAMPLES SET UP: <i>9:15A</i>	DATE: <i>5-20-02</i>	ANALYZED BY: <i>MR</i>
TIME SAMPLES COME OUT: <i>9:15A</i>	DATE: <i>5-21-02</i>	ANALYZED BY: <i>MR</i>
TYPE OF SAMPLE: <i>GRAB</i>	COMPOSITE:	OTHER: <i>LIJ</i>
WELLS:	WETLANDS:	OTHER: <i>Compost</i>

FECAL COLIFORM DATA

FECAL COLIFORM COLONIES/100ML = COLIFORM COLONIES COUNTED $\times$ 100

ML SAMPLE FILTERED

SAMPLE	<i>Landfill Compost</i>					
DISH NUMBER						
SAMPLE VOL. (MLS)	<i>5</i>	<i>1</i>	<i>.5</i>	<i>.1</i>		
TEMP DEG. C.						
PH						
FECAL COLIFORMS/100ML	<i>1</i> <i>20</i>	<i>0</i>	<i>0</i>	<i>0</i>		

REMARKS: *1 did not see any - Vince saw 1 on the 5 ml sample. MR*

PROCEDURES STD. METHODS: 9222 D

FECAL

.5 ml & up were too muddy to see or count Fecal Coliforms if there were any. Vince L. count

NORTHWEST PIPE FITTINGS, INC. OF HURON

441 ARIZONA AVE. NW

HURON, SD 57350-4501

PHONE:(605)352-8531 • FAX:(605)352-7027

REMIT TO: 441 ARIZONA AVE. NW • HURON, SD 57350-4501

INVOICE

ALWAYS REFER TO
THIS INVOICE NO.

PAGE NUMBER

1

INVOICE NO.

182532

37527

06/11/07

CUSTOMER ACCOUNT NO.

INVOICE DATE

SOLD TO: CITY OF HURON
PO BOX 1369

SHIP TO: CITY OF HURON
PO BOX 1369

HURON, SD 57350

HURON, SD. 57350

*Garden
water line*

DATE SHIPPED	SALESPERSON	JOB NAME	PURCHASE ORDER NO.	SHIP VIA	TERMS
06/11/07	BRP	C. GARDEN		CUSTOMER PICK	2% 10TH PROX NET 30

ITEM NO.	QUANTITY ORDERED	QUAN. B.O.	QUANTITY SHIPPED	DESCRIPTION	UNIT PRICE	DISC.	EXTENDED PRICE
1	1	0	1	2226691 461-06540765-000 6.54-7.6500 QUANTUM OMNI CPLG	145.37	**	145.37
2	1	0	1	0846238 6 X 3 437-530 PVC 40 S BUSH	17.43	**	17.43
3	1	0	1	2210600 261-00035007-000 3.46-3.70 7-1/2 CLAMP	66.69	**	66.69
4	10	0	10	1360466 3X10 PVC DWV PE PIPE	1.45	**	14.50
5	1	0	1	0821969 30876 PT PVC CEMENT	6.37	**	6.37
6	1	0	1	0821896 30795 PT PVC CLEANER	5.12	**	5.12
PICKED UP BY: KEITH DEFAZIER <i>Copy file</i>							

ITEMS ORDERED BUT NOT SHIPPED
HAVE BEEN CANCELLED AND WILL
NOT BE SHIPPED UNLESS ENTERED
IN COLUMN HEADED 'B.O.' ITEMS
ENTERED IN 'B.O.' COLUMN WILL BE
SHIPPED UPON RECEIPT.

FREIGHT CHARGE TO FOLLOW ON INVOICE#

PAST DUE ACCOUNTS SUBJECT TO
TIME PAY DIFFERENTIAL OF 1.5% PER MONTH.

CUSTOMER

SALE AMOUNT	255.48
MISC. CHARGES	0.00
SALES TAX	0.00
FREIGHT	
TOTAL	255.48

QUOTATION FORM

NORTHWEST PIPE FITTINGS, INC. OF HURON

441 ARIZONA AVE. NW

HURON, SD 57350-4501

Phone:(605)352-8531 • Fax:(605)352-7027

NOT FOR SHIPPING.

MATERIAL MAY NOT BE SHIPPED
FROM THIS DOCUMENT.

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WATER RIGHTS
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* * Q U O T A T I O N * *

TO: CITY OF HURON
PO BOX 1369
HURON, SD 57350DATE: 02/22/08 NO. 34410
TO DATE: 03/22/08
JOB: SOLID WATSE DEPT
TERMS: 2% 10TH PROX NET 30
FOB: HURON SD
PREP. BY JERAD SAMMONS

ATTN: DALE

WE ARE PLEASED TO QUOTE YOU ON THE FOLLOWING MATERIAL

PAGE: 1

=====

Qty	Part Number	Description	Price...	Extended
-----	-------------	-------------	----------	----------

=====

1 ==> PRESSURE PUMP

1	519NS23374	PB27118201 2HP 1PH 11 STAGE SS JET BOOSTER PUMP	736.02	736.02
---	------------	---	--------	--------

1		DV200 1" FIP 20 GPM DOLE FLOW CONTROL	44.77	44.77
---	--	---------------------------------------	-------	-------

1	0010012	FREIGHT IN	50.00	50.00
---	---------	------------	-------	-------

1	0019990	REMARKS: IN ORDER TO BUILD THE PRESSURE YOU ARE LOOKING FOR YOU NEED TO RESTRICT THE FLOW THUS REDUCING GPM. OPTIMAL FLOW THROUGH 1-1/4 PIPE OR HOSE IS BETWEEN 20-22 GPM. THIS PUMP WILL ADD 120 PSI IF THE FLOW IS RESTRICTED TO 20 GPM.		
---	---------	--	--	--

830.79

QUOTATION TOTALS

830.79

QUOTATION FORM
NORTHWEST PIPE FITTINGS, INC. OF HURON

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PROGRAM**

441 ARIZONA AVE. NW
HURON, SD 57350-4501
PHONE 605-352-8531 : FAX # 605-352-7027

NOT FOR SHIPPING
MATERIAL MAY NOT BE SHIPPED
FROM THIS DOCUMENT

TO: CITY OF HURON
239 WISC. SW
PO BOX 1369
HURON, SD 57350

DATE: 01/20/16 NO. 41308
TO DATE: 02/13/16
JOB: GARDEN WELL PUMP
TERMS: 2% 10TH PROX NET 30
FOB: HURON
PREP. BY BRETT A. PEARSON

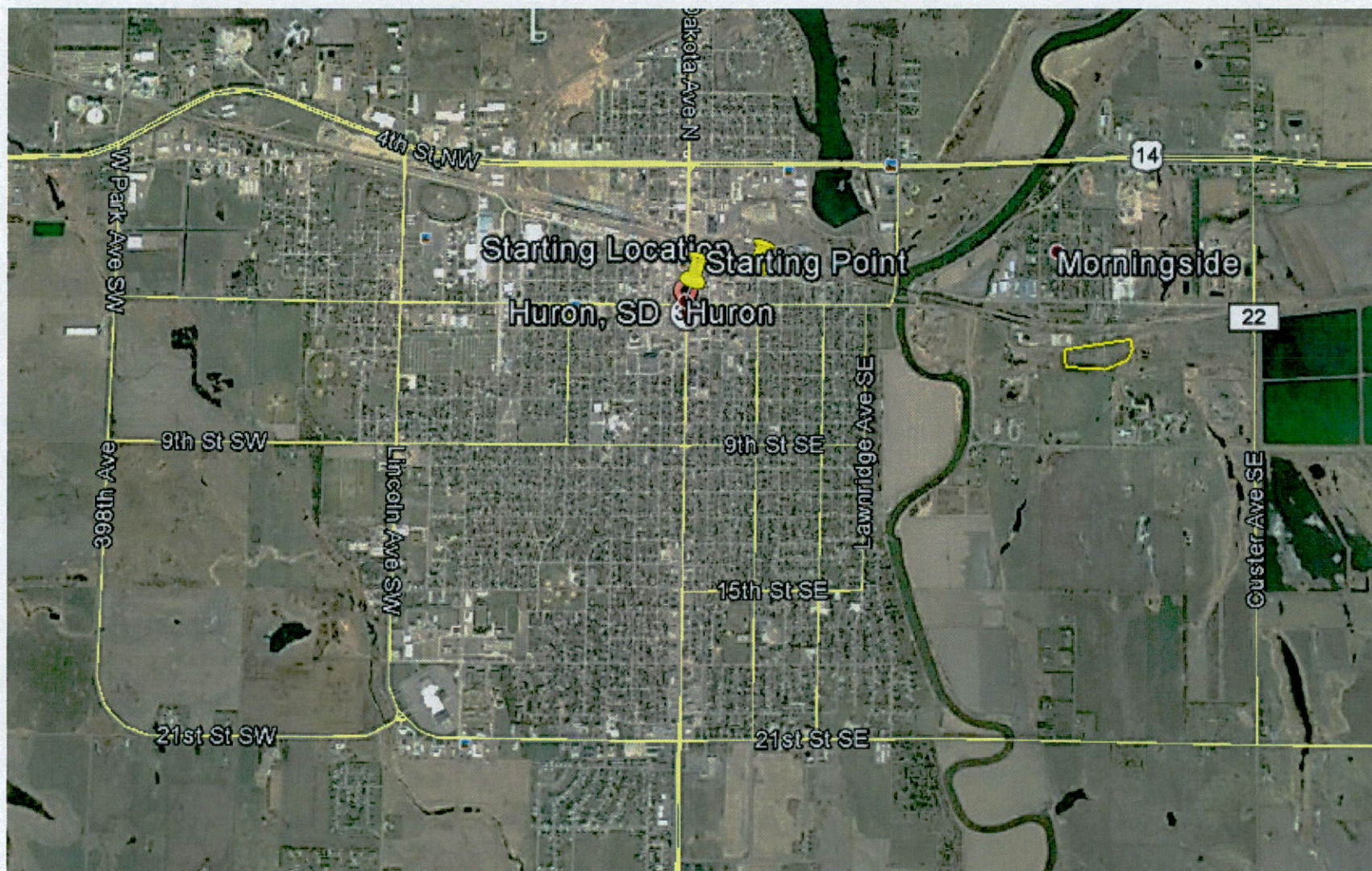
WE ARE PLEASED TO QUOTE YOU ON THE FOLLOWING MATERIAL

PAGE: 1

Qty	Part Number	Description	Price...	Extended
1		==> SUBMERSIBLE WELL PUMP		
1		4F55S15 4" <u>55GPM</u> PUMP END	580.17	580.17
1	5930150	137434 1-1/2HP 230V 3W MOTOR	396.45	396.45
1	5930932	133589 1-1/2HP 230V CONTROL BX	93.47	93.47
60	1420400	2 PVC SCH 80 PIPE TBE	1.39	83.40
1	481NS23251	WS500200 5 X 2 CI WELL SEAL	28.68	28.68
2	0400086	2 BRASS COUPLING	20.93	41.86
				----- 1224.03
2		==> PRESSURE BOOSTER SYSTEM		
1		ADW2W31 3HP 1PH OR 3PH ARTESIAN DRIVE CONSTANT PRESSURE PUMPING STATION	5261.56	5261.56
1	0019990	REMARKS: PRICING DOES NOT INCLUDE INSTALLATION, WIRING OR CONNECTION FITTINGS		
				----- 5261.56
		QUOTATION TOTALS		6485.59

ALL QUANTITIES & PRODUCTS ARE SUBJECT TO VERIFICATION BY BIDDING CONTRACTOR.





RECEIPT
WATER RIGHTS PROGRAM
South Dakota Department of Environment and Natural Resources

Date 4/6, 20 16

RECEIVED OF City of Huron Huron SD 57350

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

Fee for Application for Permit No. <u>8214-3</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>8214-3</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. **07808**

By

J. Lane Goodman
Chief Engineer

Schlaak, Karen

From: Schlaak, Karen
Sent: Thursday, March 31, 2016 3:57 PM
To: 'Mike Wever'
Subject: RE: Water Permit application

The application/license fee will be \$300.00 (Not \$700.00 as I previously stated). Please submit. In the meantime, we will continue the review process of the application. You will be notified when it is time for the public notice and what is required.

From: Mike Wever [<mailto:mwever@huronsd.com>]
Sent: Thursday, March 31, 2016 3:00 PM
To: Schlaak, Karen
Subject: RE: Water Permit application

Yes

From: Schlaak, Karen [<mailto:Karen.Schlaak@state.sd.us>]
Sent: Thursday, March 31, 2016 2:52 PM
To: Mike Wever
Subject: RE: Water Permit application

NW ¼ SE ¼ Section 5 ?

From: Mike Wever [<mailto:mwever@huronsd.com>]
Sent: Thursday, March 31, 2016 2:33 PM
To: Schlaak, Karen
Subject: RE: Water Permit application

NW1/4 SE1/4 Section 4 is correct. The location we gave is incorrect.

55 gpm pump. We were exact with the pump and rounded on the use. This can be changed to 55.

Aerial map attached

From: Schlaak, Karen [<mailto:Karen.Schlaak@state.sd.us>]
Sent: Thursday, March 31, 2016 2:17 PM
To: Mike Wever
Subject: Water Permit application

Mr. Wever,

We received the City's water permit application today. Some clarification is necessary. Water Right No. 5734-3 authorizes 9 gpm from a well located in the NE ¼ SE ¼ Section 4-T110N-R61W. This is the well description identified on the application.

Recently, Eric Gronlund, with our office spoke to Ron with the Parks and Rec Dept and was of the understanding the well the city was proposing to amend was authorized by Water Right No. 6321-3 issued for 18 gpm from a well located in the NW ¼ SE ¼ Section 5-T110N-R61W. Please clarify.

The application further indicates the "Installation of a 55 gpm pump to replace the a pump currently in the well."
Further down on the application under amount of water claimed "60 gpm" is listed. What is the total amount being requested?

Also we require a map outlining the area of the community garden. The filing fee for this application will be \$700.00.

Once these questions, have been answered we will move forward with the application.

If you have questions, please contact Eric Gronlund or me at 605 773-3352

Karen Schlaak
Water Rights Program
523 E Capitol Ave
Pierre SD 57501

* INVOICE *

SD DENR - Water Rights
523 E Capitol Ave
Pierre SD 57501

April 1, 2016
Invoice No. 040116

City of Huron
PO Box 1369
Huron SD 57350

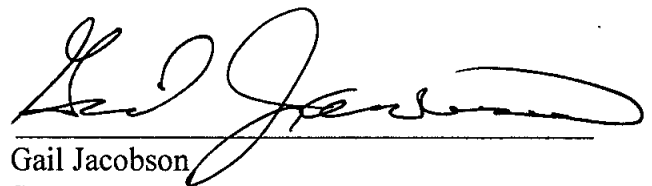
Application for a Permit to appropriate water

Permit Fee: \$100.00

Licensing and Inspection Fee \$200.00

PLEASE PAY THIS AMOUNT:

\$300.00



Gail Jacobson
Secretary
Water Rights Program
(605) 773-3352

Gronlund, Eric

From: Mike Wever <mwever@huronsd.com>
Sent: Tuesday, June 07, 2016 3:49 PM
To: Gronlund, Eric
Cc: Dale Fortin
Subject: RE: water permit application for community garden

The pump is rated at 55 gpm. It turns on at 6:00 am and off at 9:00 pm, there are numerous spigots and we estimate the average use at 10 gpm throughout the day. Therefore approx. 10,000 gallons/day for 150 days.

Eric -These numbers are best guess. If you need more precise numbers, let me know.

From: Gronlund, Eric [<mailto:Eric.Gronlund@state.sd.us>]
Sent: Monday, June 06, 2016 4:13 PM
To: Mike Wever; Dale Fortin
Subject: RE: water permit application for community garden

Did you have a chance to look at the two questions. Thanks - Eric

From: Gronlund, Eric
Sent: Tuesday, May 31, 2016 2:48 PM
To: 'mwever@huronsd.com'; 'dalef@huronsd.com'
Subject: water permit application for community garden

Mike & Dale:

DENR's review is complete for the water permit application to increase the diversion rate authority from the well used originally at the compost site and now for the community garden. We are ready to public notice. Two questions.

1. Is the well's use metered? A common condition on this type of application is to require annual reporting of water use. Does the city have the ability to know how much water is diverted from the well? I assume individuals with plots in the community garden water at will and there is not a much city oversight controlling the amount being used unless a meter is in place.
2. Does the city have an estimate of the total volume of water (in gallons or acre-feet) that the city anticipates will be diverted from the well?

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



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

denr.sd.gov

**RECOMMENDATION OF CHIEF ENGINEER FOR WATER PERMIT
APPLICATION NO. 8214-3, City of Huron**

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. 8214-3, City of Huron, c/o Mike Wever, City Engineer, PO Box 1369, Huron SD 57350.

The Chief Engineer is recommending APPROVAL of Application No. 8214-3 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, 4) it is in the public interest with the following qualifications:

1. The well approved under Water Right No. 6321-3 and 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 Floyd:East James Aquifer.
3. Water Right No. 6231-3 and Water Permit No. ²8214-3 authorize a combined total annual volume of up to 5 acre feet of water from the Floyd:East James Aquifer.

See report on application for additional information.

Jeanne Goodman, Chief Engineer
June 10, 2016

REPORT TO THE CHIEF ENGINEER
ON
WATER PERMIT APPLICATION NO. 8214-3
CITY OF HURON
C/O MIKE WEAVER, CITY ENGINEER
MAY 23, 2016

Water Permit Application No. 8214-3 proposes to authorize the diversion of water from the Floyd: East James aquifer at a maximum diversion rate of 0.082 cubic feet of water per second (cfs) using a well authorized by Water Right No. 6321-3. Water Right No. 6321-3 authorizes the diversion of water from the Floyd: East James aquifer at a maximum rate of 0.04 cfs from one well (85 feet deep) located in the NW ¼ SE ¼ Section 5-T110N-R61W. The water is used for municipal purposes to supply water at the city's compost site. Application No. 8214-3 proposes to supply more water to the compost site as well as supply water to the community garden located in the NE ¼ SW ¼ and the NW ¼ SE ¼ Section 5-T110N-R61W. This application, if approved, and Water Right No. 6321-3 will authorize a combined maximum diversion rate of 0.122 cfs (55 gallons per minute).

AQUIFER: Floyd: East James (F:EJ)

Aquifer Characteristics:

The Floyd: East James aquifer is a system of interconnected gravel and sand layers with intermixed layers of gray pebbly till that also confine the aquifer (Hansen, 1983). The aquifer underlies approximately 374,600 acres of Beadle, Hanson, Kingsbury, McCook, Miner, and Sanborn counties (Buhler, 2012). The aquifer is on average approximately 30 feet thick, but can be up to 118 feet thick (Buhler, 2012). The aquifer is primarily under confined conditions with water levels ranging from approximately 75 feet below ground surface to flowing (Water Rights, 2016a).

The well completion report in the file for Water Right No. 6321-3 indicates several layers of intermixed sand and clay from ground surface to 65 feet below grade. Below the intermixed layers, the thickest layer of aquifer material is gravel from 65 to 72 feet below ground surface and sand with gravel from 72 to 82 (Water Rights, 2016b). The static water level in the area is likely 20 and 40 feet below grade (Water Rights, 2016a and 2016c). Figure 1 is a map of the Floyd: East James aquifer with observation wells and the location of the well this application proposes to use.

South Dakota Codified Law (SDCL) 46-2A-9

Pursuant to SDCL 46-2A-9, a permit to appropriate water may be issued only if there is a reasonable probability that there is unappropriated water available for this applicant's proposed use, that the proposed diversion can be developed without unlawful impairment of existing rights and that the proposed use is a beneficial use and in the public interest. This report will address the availability of unappropriated water and effects on existing rights from the aquifer that are pertinent to this application.

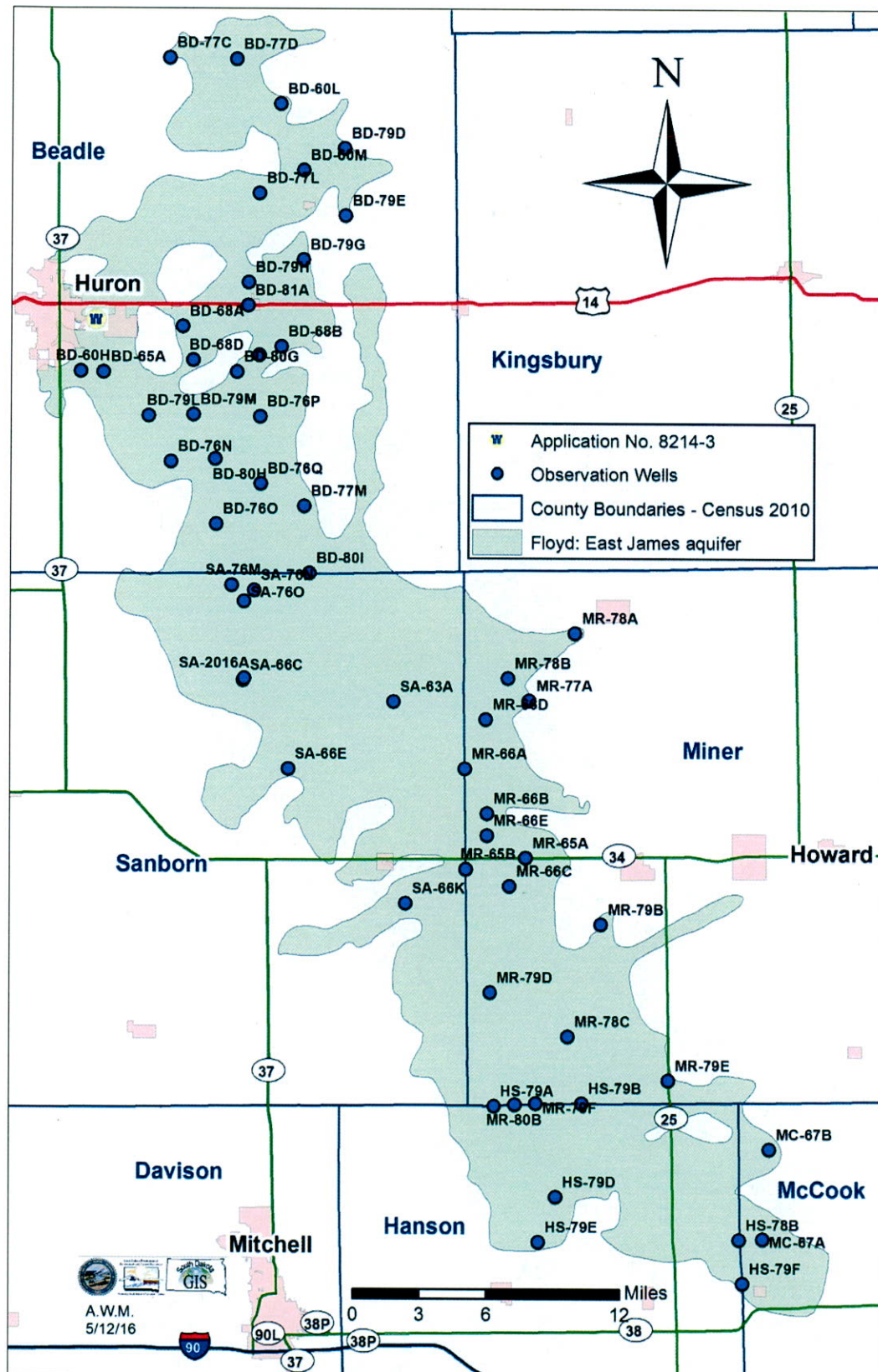


Figure 1- Map of the Floyd: East James (Buhler, 2012), observation wells (Water Rights, 2016a), and the well Application No. 8214-3 proposes to use

WATER AVAILABILITY:

This application proposes to appropriate water from the Floyd: East James aquifer. The probability of unappropriated water being available from the aquifer can be evaluated by considering SDCL 46-6-3.1, which requires “No application to appropriate groundwater may be approved if, according to the best information reasonably available, it is probable that the quantity of water withdrawn annually from a groundwater source will exceed the quantity of the average estimated annual recharge of water to the groundwater source.” If the source of the water is older or lower than the Greenhorn Formation and a water distribution system has applied for a permit, the Board need not consider the recharge/withdrawal issue. In this case, the aquifer is not stratigraphically lower than the Greenhorn Formation.

Observation Well Data:

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

The DENR-Water Rights Program monitors 58 observation wells completed into the Floyd: East James aquifer (Water Rights, 2016a). The nearest observation wells to the well this application proposes to use are BD-65A, 2.3 miles south, and BD-60H, 2.4 miles south-southwest (Water Rights, 2016a). The hydrographs for these observation wells are shown in Figures 2 and 3, respectively.

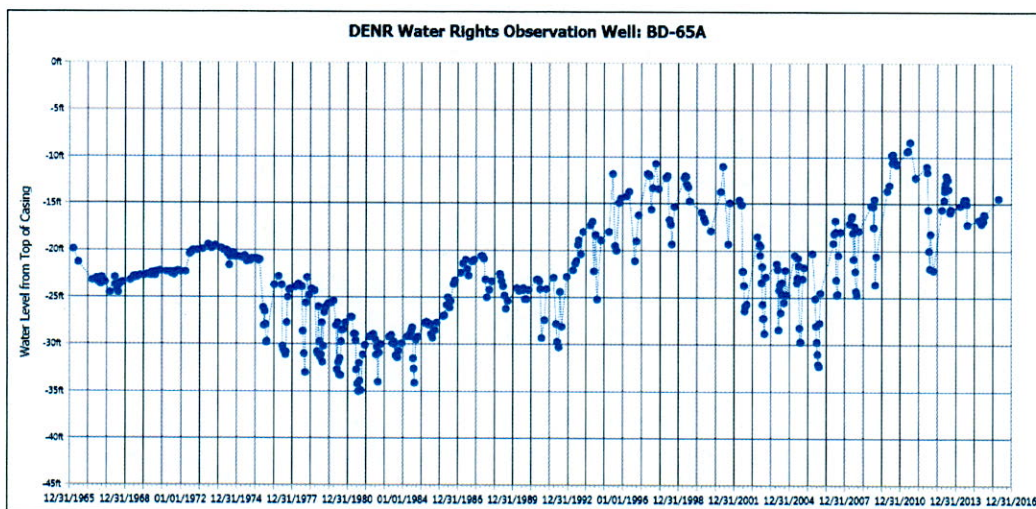


Figure 2- Hydrograph for observation well BD-65A (Water Rights, 2016a)

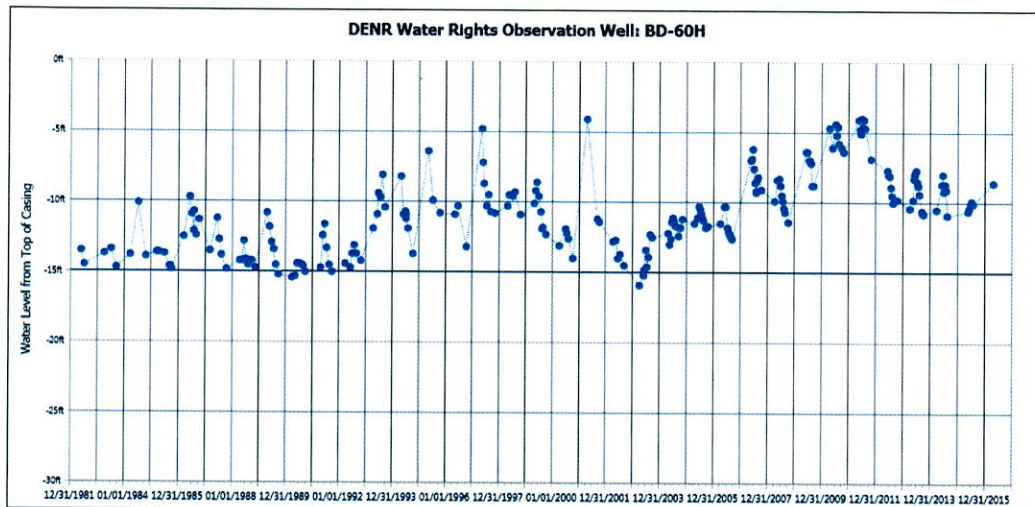


Figure 3- Hydrograph for observation well BD-60H (Water Rights, 2016a)

The hydrographs for BD-65A and BD-60H are representative of the aquifer. Most of the observation wells show a stable to increasing water levels. However, four observation wells, HS-79B, HS-79E, MR-79F, and SA-66C, show declining water levels. Observation SA-66C appears to not be representative of the aquifer. The water level has not fully recovered since the well was developed in July, 2012 (Water Rights, 2016a). There may be issues with the well screen. A new observation well, SA-2016A, was drilled nearby to verify if SA-66C is no longer representative of the aquifer and to potentially replace the observation well. Both MR-79F and HS-79B appear to have been influenced by increases in localized pumping. The aquifer is under confined conditions at the wells, and the water level appears to be equilibrating with the localized pumping. Observation well HS-79E shows the cyclical effects of climate on water level. The water level in the observation well has recovered after an extended period with slightly lower water levels. However, the water levels in these four observation wells do not indicate any issues with the aquifer. Figures 4, 5, 6, and 7 show the hydrographs for observation wells SA-66C, MR-79F, HS-79B, and HS-79E, respectively.

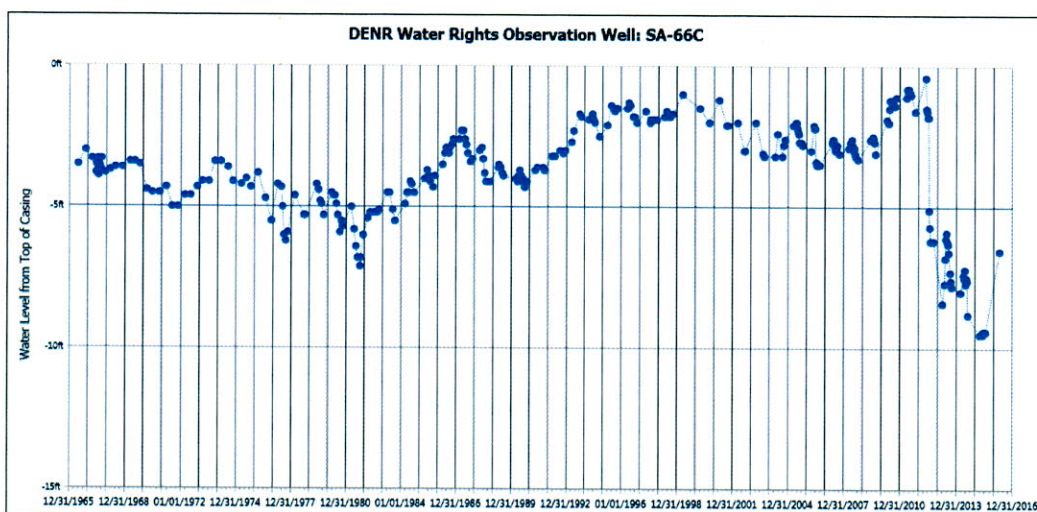


Figure 4- Hydrograph for observation well SA-66C (Water Rights, 2016a)

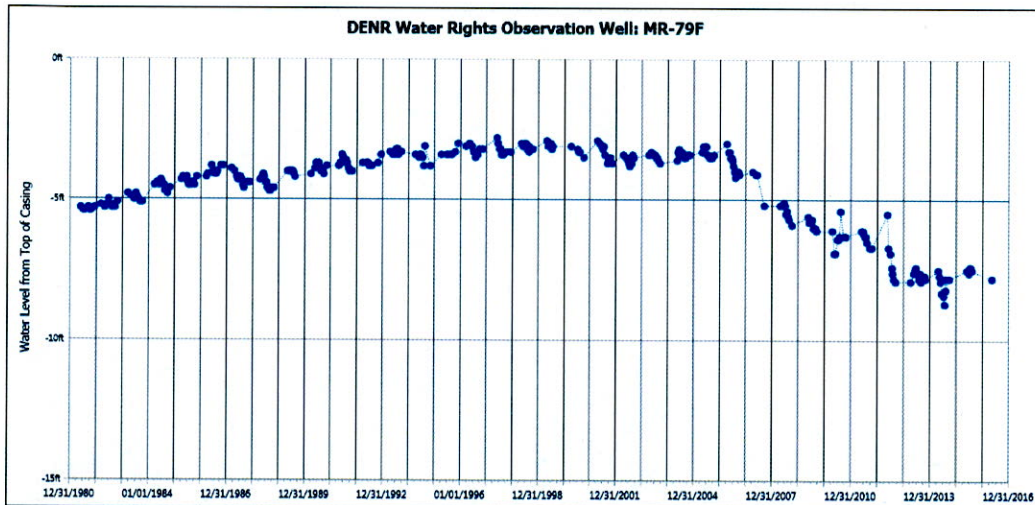


Figure 5- Hydrograph for observation well MR-79F(Water Rights, 2016a)

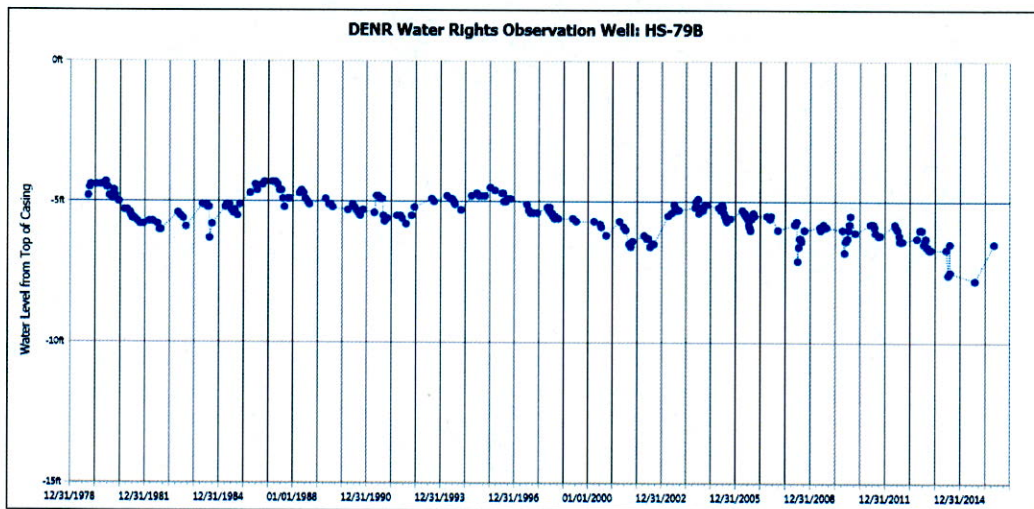


Figure 6- Hydrograph for observation well HS-79B (Water Rights, 2016a)

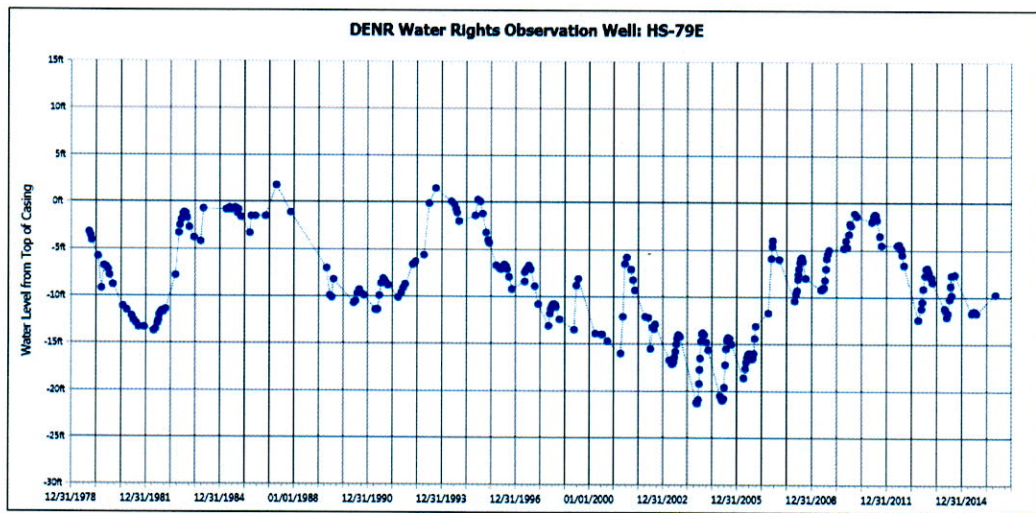


Figure 7- Hydrograph for observation well HS-79E (Water Rights, 2016a)

In general, the water levels rise (recharge) during wet periods and gradually decline during dry periods. The hydrographs for the observation wells completed into the Floyd: East James aquifer show water levels recover after the end of the irrigation season. The hydrographs show water levels in the aquifer have remained fairly stable or have had a rising water level over the period of record.

While some of the hydrographs do show the temporary impacts of well withdrawal on water level, the long term effects of climate on water level still dominate. Thus, recharge to and natural discharge from the aquifer significantly exceeds pumping. Natural discharge from the aquifer can be captured for pumping. Recognizing that, the hydrographs for the observation wells document there is unappropriated water available for this proposed appropriation.

Recharge and Discharge:

Recharge:

Recharge to the Floyd: East James aquifer is primarily through leakage from underlying bedrock. The aquifer is underlain by the Carlile Shale, Niobrara Marl, Pierre Shale, and Sioux Quartzite (SDGS, 2016; Tomhave and Schulz, 2004; Water Rights, 2016a and 2016c). In Miner County, the Floyd: East James aquifer is hydraulically connected to the Niobrara and Codell aquifers (McGarvie, 1983). Koch and McGarvie (1988) stated the Floyd: East James aquifer is recharged by the upward migration of water from the Niobrara and Codell aquifers in Miner County. Direct infiltration of precipitation through permeable surface deposits into the aquifer may occur in Beadle County (Howells and Stephens, 1968).

Hedges and others (1985) estimated recharge to the Floyd: East James aquifer using a regional flow-net analysis for the confined portion of the aquifer and observation well data was used for the unconfined portion of the aquifer. The unconfined area of the aquifer is relatively small. A recharge rate of 0.30 inches per year (in/yr.) was estimated for the confined portion of the aquifer and 3.4 in/yr. for the unconfined portion (Hedges et. al, 1985). Buhler (2012) used a regional flow-net analysis to determine the amount of water flowing through the Floyd: East James aquifer. Buhler (2012) determined to maintain the amount of water moving through the aquifer, the recharge to the aquifer would need to be 0.42 in/yr. Emmons (1988) estimated the recharge rate to be 0.24 to 0.72 in/yr. or 0.478 in/yr. under steady-state conditions. Several assumptions were used with Emmons's (1988) model. Some of the assumptions, such as assuming evapotranspiration from the aquifer and direct infiltration of precipitation to the aquifer take place through as much as 45 feet of relatively impermeable glacial till, are not representative of real world conditions. Furthermore, the model was for an aquifer system in Sanborn County and parts of Beadle, Miner, Hanson, Davison, and Jerauld Counties. The model excludes the portion of the Floyd: East James aquifer in McCook County, and treats four major aquifers (Bad Cheyenne, Floyd, Tulare, and Warren) as a single aquifer. A summary of all of the recharge estimates are shown in Table 1.

Publication	Rate (in/yr.)	Annual Rate (ac-ft/yr.)
Hedges et. al, 1985	0.3	9,365
Emmons, 1988; Range	0.24 - 0.72	7,492 - 22,475
Emmons, 1988; Steady State	0.487	15,202
Buhler, 2012	0.42	13,213

Table 1- Recharge estimates for the Floyd: East James aquifer (modified from: Buhler, 2012)

Discharge:

Discharge from the Floyd: East James aquifer is through outflow to adjacent bedrock aquifers and through well withdrawals (Hanson, 1983; Koch and McGarvie, 1988). There are 68 water rights/permits authorizing the appropriation of water from the Floyd: East James aquifer. There are seven water rights/permits authorizing appropriation for non-irrigation purposes (see Table 2) (Water Rights, 2016b). The water use by the non-irrigation appropriations is estimated by assuming the water rights/permits pump at the maximum allowed diversion rate for 60 percent of the time.

Permit No.	Name	County	Status	Use	CFS	Est. Annual Volume (ac-ft)
5397-3	OUR HOME INC	BD	LC	INS/DOM	0.056	24.3
5488-3	FAITH MENNONITE CHURCH	BD	LC	INS	0.05	21.7
5734-3	CITY OF HURON	BD	LC	MUN	0.02	8.7
6025-3	EDNEY DISTRIBUTING CO	BD	LC	COM	0.022	9.6
6290-3	LINDBERG SPECIALTIES LLC	BD	LC	COM	0.022	9.6
6321-3	CITY OF HURON	BD	LC	MUN	0.04	17.4
8199-3	DONAHUE FARMS	MR	PE	COM/DOM	0.162	70.4
Total						161.6
BD= Beadle, MR= Miner, LC= Water Right, PE= Water Permit, INS= Institutional, DOM= Domestic, MUN= Municipal, COM= Commercial						

Table 2- Estimated Annual Pumping by Non-Irrigation Appropriations (Water Rights, 2016b)

The historic irrigation pumpage is shown in Table 3. The average annual reported irrigation pumping over the period of record is 2,354 ac-ft/yr. There are a number of domestic wells on file with the DENR-Water Rights Program that are completed into the Floyd: East James aquifer (Water Rights, 2016c). Buhler (2012) estimated non-appropriative, domestic use from the aquifer to range from 88 to 243 ac-ft/yr. Given how recent Buhler's (2012) calculation is, the range of values, and how small a percentage domestic pumpage is of the estimated average annual total pumpage, this range for domestic use is a valid estimate.

Hydrologic Budget:

The estimated average annual withdrawal from the Floyd: East James aquifer ranges from 2,604 to 2,759 ac-ft/yr. This application, if approved, will likely have an annual withdrawal less than 36 ac-ft/yr. That is a projected average annual withdrawal of 2,641 to 2,796 ac-ft/yr. That range is much less than the lowest estimated annual recharge rate to the aquifer (7,492 ac-ft/yr.). Therefore, there is a reasonable probability that unappropriated water is available for this proposed appropriation.

Year	No. of Permits Reporting	Appropriation (ac-ft/yr.)	Pumpage (ac-ft)
1979	78	40002	2628
1980	83	42399	2854
1981	93	44923	5180
1982	57	25059.2	2228
1983	56	24943.2	3337.73
1984	68	32877.2	1842
1985	65	28815.2	1680
1986	63	27027.2	1078
1987	57	24454.2	2470
1988	55	23386.2	4782.2
1989	54	22981.2	4158.4
1990	55	22325.2	2146.7
1991	53	22319.2	2994.1
1992	49	20737	1774.5
1993	48	20399	303.3
1994	47	20062	2636.75
1995	48	20683	1326.21
1996	47	20050	2412.31
1997	48	20575	1580
1998	46	19936	1718.61
1999	46	19936	1258
2000	46	19793	1535.38
2001	46	19868	1875
2002	48	20508	3591.92
2003	50	20899	3393.92
2004	55	22332	2704.98
2005	54	22124	2982.73
2006	54	22122	3799.91
2007	54	22122	2403.5
2008	53	21944	2356.11
2009	53	21896	1203.88
2010	50	20882	312.05
2011	52	21018	703.01
2012	53	21500	2911.63
2013	56	22330	2234.45
2014	58	22950	2364.78
Max	93	44923	5180
Min	46	19793	303.3
Avg.	55.50	24060.50	2354.50

Table 3- Historical Irrigation Appropriation and Pumpage from the Floyd: East James Aquifer (Water Rights, 1979-2015)

EXISTING WATER RIGHTS:

There are five water rights authorizing wells within approximately three miles of the well authorized by Water Right No. 6321-3, which this application proposes to use (see Figure 8) (Water Rights, 2016b). There are a number of domestic wells on file with the DENR-Water Rights Program in the area of the well this application proposes to use (Water Rights, 2016c).

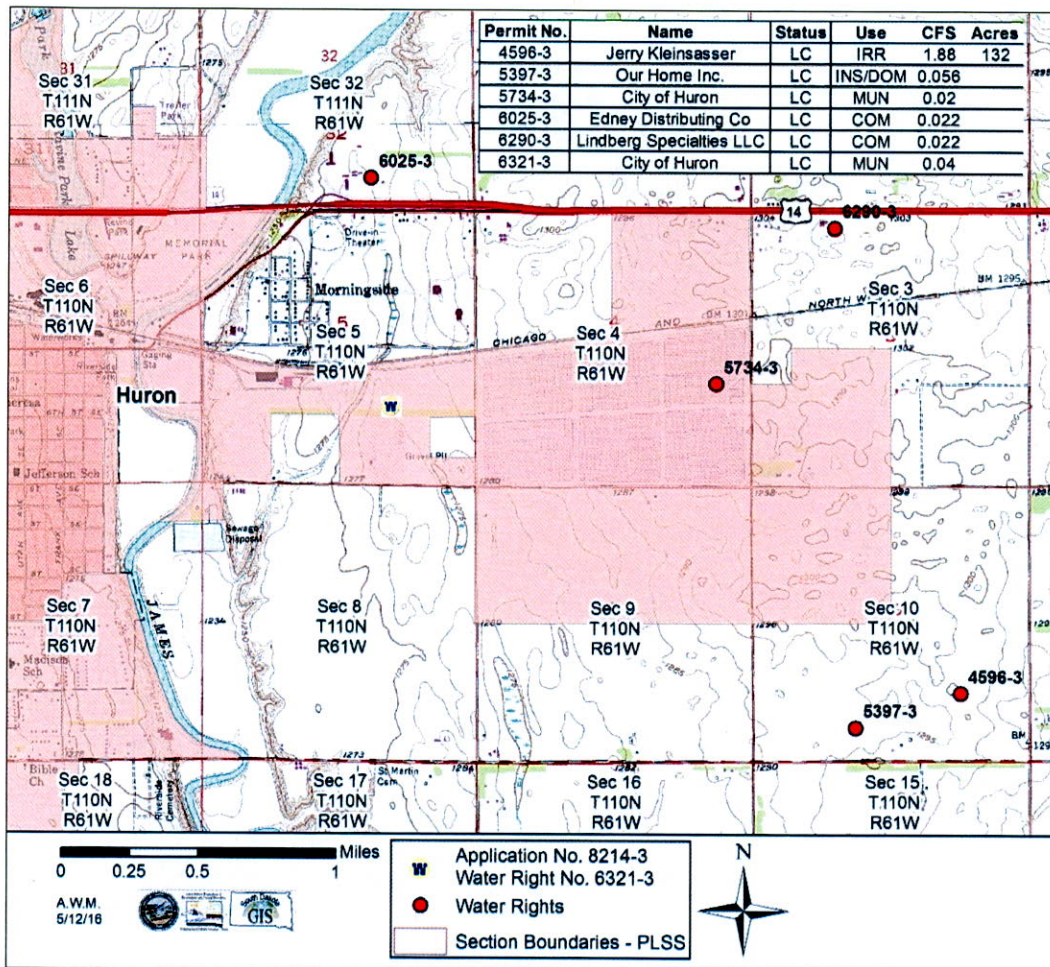


Figure 8- Map of the approximate locations of Water Rights within approximately 3 miles of the well authorized by Water Right No. 6321-3 (Water Rights, 2016b)

Well interference has not been an issue in the Floyd: East James aquifer in the past. The nearest water right authorizing a diversion from the Floyd: East James aquifer is approximately 0.8 miles away from the well this application proposes to use. Considering the low diversion rate requested by this application, the distance to the nearest appropriative well, and the lack of well interference issues in the past in the aquifer, there is a reasonable probability that pumping from this proposed diversion will not unlawfully impair existing appropriative or domestic users.

The Water Management Board defined an “adversely impacted domestic well” in ARSD 74:02:04:20(7) as:

“a well in which the pump intake was set at least 20 feet below the top of the aquifer at the time of construction or, if the aquifer is less than 20 feet thick, is as near to the bottom of the aquifer as is practical and the water level of the aquifer has declined to a level that the pump will no longer deliver sufficient water for the well owner’s needs”

In the past, the Water Management Board has recognized to place water to maximum beneficial use, a certain amount of drawdown may occur. Since the aquifer is primarily under confined conditions, drawdown due to pumping may be experienced some distance from the well site. Due to the low diversion rate proposed by this application and the historical lack of interference issues in this aquifer, pumping by this proposed appropriation is not expected to cause adverse impacts to existing appropriative or domestic users. However, depending on the specific characteristics of the Floyd: East James aquifer at the well site some existing well owners may need to lower their pumps to accommodate for deeper water levels. When considering the statute (SDCL 46-6-6.1) and the rule (ARSD 74:02:04:20(7)), well interference from this proposed diversion at the proposed diversion rate is not likely to cause a significant impact. Therefore, there is a reasonable probability that any interference will not be adverse.

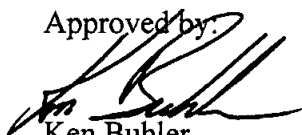
CONCLUSIONS:

1. Application No. 8214-3 proposes to divert water from the Floyd: East James aquifer at a maximum diversion rate of 0.082 cfs using a well authorized by Water Right No. 6321-3 for municipal purposes at the City of Huron's compost site and community garden.
2. Water Right No. 6321-3 authorizes the diversion of water from the Floyd: East James aquifer at a maximum diversion rate of 0.04 cfs for municipal purposes.
3. Combined Water Right No. 6321-3 and Application No. 8214-3, if approved, would authorize a diversion of water from the Floyd: East James aquifer at a maximum diversion rate of 0.122 cfs (55 gpm) for municipal purposes.
4. There is a reasonable probability that unappropriated water is available for this proposed appropriation.
5. There is a reasonable probability that the diversion proposed by this application can be made without adversely impacting existing appropriative or domestic users.



Adam Mathiowetz, PE
SD DENR-Water Rights Program

Approved by:



Ken Buhler
SD DENR-Water Rights Program

REFERENCES:

- Buhler, K.A. 2012. Report on Water Permit Application No. 7239-3 Hanson County Dairy. SD DENR-Water Rights Program. Joe Foss Bldg., Pierre, South Dakota.
- Emmons, P.J. 1988. A Digital Simulation of the Glacial-Aquifer System in Sanborn and Parts of Beadle, Miner, Hanson, Davison, and Jerauld Counties, South Dakota. U.S. Geological Survey Water-Resources Investigations Report 87-4082.
- Hansen, D.S. 1983. Water Resources of Hanson and Davison Counties, South Dakota. Water Resources-Investigations Report 87-4108. U.S. Geological Survey. Huron, South Dakota.
- Hedges, L.S., Allen, J., Holly D.E., 1985, Evaluation of Ground-Water Resources Eastern South Dakota and Upper Big Sioux River, South Dakota and Iowa, Task 7: Ground Water Recharge; U.S. Army Corps of Engineers Contract DACW 45-80-C-0185.
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- Koch, N. C. and S.D. McGarvie. 1988. Water Resources of Miner County, South Dakota. Water-Resources Investigations Report 86-4035. U.S. Geological Survey. Huron, SD.
- McGarvie, S.D. 1983. Major Aquifers in Miner County, South Dakota. SD DENR-Geological Survey Information Pamphlet No. 21. Vermillion, South Dakota
- SDGS. 2016. Lithologic Logs Database Search. <<http://cf.sddenr.net/lithdb/>>. SD DENR-Geological Survey. Vermillion, South Dakota.
- Tomhave, D.W. and L.D. Schulz. 2004. Bedrock Geologic Map Showing Configuration of the Bedrock Surface in South Dakota East of the Missouri River. SD DENR-Geological Survey General Map. Vermillion, South Dakota. Scale 1:500,000.
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- Water Rights. 2016a. Observation Well Files and Data. SD DENR-Water Rights Program, Joe Foss Bldg., Pierre, South Dakota.
- Water Rights. 2016b. Water Right/Permit Files. SD DENR-Water Rights Program, Joe Foss Bldg., Pierre, South Dakota.
- Water Rights. 2016c. Well Completion Reports. SD DENR-Water Rights Program, Joe Foss Bldg., Pierre, South Dakota.

PRINTER'S AFFIDAVIT

STATE OF SOUTH DAKOTA,
COUNTY OF BEADLE: ss

I, ELDON JACOBS, being duly sworn on oath say that the PLAINSMAN is a daily paper published at Huron, Beadle County, South Dakota, and that said newspaper has a bona fide circulation of at least 250 copies daily; that said newspaper has been published within said county for fifty-two consecutive weeks immediately prior to this date, that said newspaper is printed in whole or in part, in an office maintained at said place of publication; that I am Legal Advertising Coordinator of said newspaper and know the facts herein state. The annexed notice headed:

HURON, CITY OF- #2483 WATER RIGHTS- WEAVER

was published for one day, in said newspaper, and not in any supplement of the said newspaper, the publication was of the 22ND Day JUNE 2016. That the full amount of the fee charged for publishing is: FORTY-TWO & 26/100 dollars insures to the benefit of the publisher 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 whom so ever.



Subscribed and sworn to me before this 30TH Day
of JUNE 2016.



Notary Public, South Dakota

My term expires 03/11/2022
Legal #2483

F.P. 06-22-16

**NOTICE OF
APPLICATION
NO. 8214-3 to
Appropriate Water**

Notice is given that the City of Huron, c/o Mike Weaver, City Engineer, PO Box 1369, Huron SD 57350 has filed an application for a water permit to appropriate an additional 0.082 cubic feet of water per second (cfs) to what is currently authorized by Water Right No. 6321-3. Water Right No. 6321-3 appropriates 0.04 cfs from one well completed into the Floyd East James Aquifer (85 feet deep) located in the NW1/4 SE 1/4 Section 5-T110-R61W for municipal purposes. This application proposes to appropriate an additional 0.082 cfs from the existing well to be used for municipal purposes of supplying moisture to the compost site and supplying water to a community garden located in the NE 1/4 SW 1/4 and the NW 1/4 SE 1/4 Section 5-T110N-R61W. This application, if approved, and Water Right No. 6321-3 will increase the water appropriation from the existing well from 18 gallons per minute to 55 gallons per minute.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 8214-3 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 July 5, 2016.

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
No. 2483 (adv.)

Published once at the
total approximate cost of
\$42.26.

Schlaak, Karen

From: Schlaak, Karen
Sent: Tuesday, June 14, 2016 8:21 AM
To: Ruby Crandall (rnewman.plainsman@midconetwork.com)
Subject: 8214-3, City of Huron
Attachments: 8214-3publicnov2015.short1.docx; FORM8.FRM.doc

Attached is a notice to be published on June 22, 2016.

The City of Huron, Mike Wever, City Engineer, PO Box 1369, Huron SD 57350 (605 353-8542) 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.

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

Karen Schlaak

Water Rights Program
523 E Capitol Ave
Pierre SD 57501
Phone: 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(S) RIGHT AWAY.**

June 13, 2016

City of Huron
Mike Wever - City Engineer
PO Box 1369
Huron SD 57350

Dear Mr. Wever:

Water Permit Application No. 8214-3 has been examined and found to comply with the South Dakota Water Laws and applicable rules. A notice has been sent to the Plainsman printed at Huron SD (Ph # 605-353-7401). You will need to contact the newspaper(s) 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(s) to authorize publication of your Notice and to arrange for payment. Early contact with the paper(s) 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.

NOTICE OF APPLICATION NO. 8214-3 to Appropriate Water

Notice is given that the City of Huron, c/o Mike Wever, City Engineer, PO Box 1369, Huron SD 57350 has filed an application for a water permit to appropriate an additional 0.082 cubic feet of water per second (cfs) to what is currently authorized by Water Right No. 6321-3. Water Right No. 6321-3 appropriates 0.04 cfs from one well completed into the Floyd:East James Aquifer (85 feet deep) located in the NW 1/4 SE 1/4 Section 5-T110-R61W for municipal purposes. This application proposes to appropriate an additional 0.082 cfs from the existing well to be used for municipal purposes of supplying moisture to the compost site and supplying water to a community garden located in the NE 1/4 SW 1/4 and the NW 1/4 SE 1/4 Section 5-T110N-R61W. This application, if approved, and Water Right No. 6321-3 will increase the water appropriation from the existing well from 18 gallons per minute to 55 gallons per minute.

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



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

denr.sd.gov

JUL 27 2016

City of Huron
Mike Wever, City Engineer
PO Box 1369
Huron SD 57350

Dear Mr. Wever:

Enclosed is Water Permit No. 8214-3 authorizing construction of the water diversion system and beneficial use of the water, not exceeding the limits as specified in the Water Permit.

Form 10, *Notice of Completion of Works and Application of Water to Beneficial Use*, is enclosed. Please return this completed form after you have finished the system and have put the water to beneficial use. An investigation can then be scheduled so the water license may be issued, thus completing the acquisition of a water right.

An informational sheet *Common Water Right Questions?* is also enclosed. This sheet is intended to answer some of the questions associated with obtaining and keeping a water right.

Sincerely,

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. 8214-3

I have this day, June 26, 2025, made a thorough examination of the water use system constructed by City of Huron, PO Box 1369, Huron, SD 57350 of Permit No. 8214-3, bearing the priority of March 31, 2016 authorizing the diversion of 0.122 cu. ft. per second of the waters of the Floyd:East James Aquifer for Municipal (community garden) use purposes, in Beadle County.

A. Works used to divert the water:

Well Information: SEE WR 6321-3 FOR WATER SUPPLY DETAILS

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

1) Type Buried PVC 2) Size Unknown inches 3) Length Unknown feet

Comments: Buried distribution lines are used to provide water to surface hydrants scattered throughout the garden area.

C. Works used to apply water to beneficial use: SEE SECTION B COMMENTS

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
- 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 LOCATION From the SE corner Sec 5 T110N R61W 1500 ft N & 1610 ft W, Lat 44.36007 Long -98.18042 NW ¼ SE ¼).
2. The works are capable of diverting and conveying to the place of use 0.122 cu. ft. per second of water which is to be used for Municipal (community garden) use. Water has been put to beneficial use to the maximum extent as follows:

<u>legal description/acreage</u>	<u>legal description/acreage</u>
license should be issued for <u>0.122</u> cfs.	
3. All structures, wells and lands on map Y

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

This permit is associated with License 6321-3 and should be incorporated.

Used FSA maps and ArcGIS to construct the inspection map.

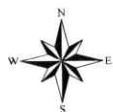
Talked to Mr. Chad Schroder, Park & Rec Director, (605/354-2696) on the phone during the field visit.

The mailing address in the permit materials is current but the City phone number is 605/353-8533.



Darrell DeBoer
Water Rights Inspector
DENR, Water Rights Program

Date report completed: June 26, 2025



0 385 770 1,540 2,310 3,080 Feet



**DEPARTMENT of AGRICULTURE
and NATURAL RESOURCES**

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

SEP 02 2025

City of Huron
c/o Brett Runge
PO Box 1369
Huron, SD 57350

No. 8214-3

Dear Mr. Runge:

Enclosed is Water License No. 8214-3. 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.

So 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.

If you have any questions regarding the enclosed license, please contact Water Rights Permitting Administrator, Amanda Dewell at (605) 773-3352 or Amanda.Dewell@state.sd.us.

Sincerely,

Mark Mayer, PE
Director of Office of Water
(605) 773-3352

The applicable portions of Water Right No. 6321-3 have been incorporated into Water Right No. 8214-3.

enclosures

**STATE OF SOUTH DAKOTA
WATER LICENSE NO. 8214-3**

(1) Water Right No. 6321-3, held by the City of Huron, PO Box 1369, Huron, SD 57350, with a priority date of April 5, 2002, authorizes the diversion of 0.04 cubic feet of water per second from groundwater, one well (Floyd: East James Aquifer), Beadle County, for municipal purposes.

The applicable portions of Water Right No. 6321-3 are incorporated into this license.

The City of Huron made Application No. 8214-3, March 31, 2016, for a water permit to appropriate an additional 0.082 cubic feet of water per second to what was already authorized by Water Right No. 6321-3. Permit No. 8214-3, with a priority date of March 31, 2016, was approved July 5, 2016, and issued to the applicant for diversion of water with construction of the described water supply system to be completed on or before July 5, 2021, and for the application to beneficial use of water on or before July 5, 2025.

(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 up to 5 acre-feet of water annually at a maximum rate of 0.122 cubic feet of water per second for beneficial use. The location of the diversion point is:

- 1,500 feet N and 1,610 feet W from the SE corner of Section 5, T110N, R61W (NW ¼ SE ¼)
(Latitude 44.36007 and Longitude -98.18042)

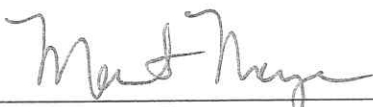
(3) The water is to be used during the following described annual period: May 1 – September 30.

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

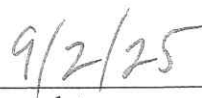
(5) Pursuant to South Dakota Water Law 46-5-30.1 the City of Huron, the holder and/or owner of Water Right No. 8214-3 is issued a license to appropriate water, the right to use up to 5 acre-feet of water annually at a maximum rate of 0.122 cubic feet of water per second from groundwater, one well (Floyd: East James Aquifer), with priority dates of April 5, 2002 (0.04 cfs) and March 31, 2016 (0.082 cfs), from the location specified in (2) of this license for municipal purposes.

This license is subject to South Dakota Water Law, any limitations or conditions listed in Water Right No. 8214-3 and subject to the following qualifications:

1. The well approved under Water Right No. 6321-3 and 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 Floyd: East James Aquifer.
3. Water Right No. 6231-3 and Water Permit No. 8214-3 authorize a combined total annual volume of up to 5 acre-feet of water from the Floyd: East James Aquifer.



Mark Mayer, PE
Director of Office of Water



date

