

Considered: _____

WATER PERMIT NO. 5684-3

Phone: 339-7059

Name of Applicant: Great Plains Zoo & Museum

Post Office Address: 805 S Kiwanis, Sioux Falls SD 57104

Amount of Water Claimed: 0.11 cfs Total Acres: NA

Source of Water Supply: groundwater

Water to be used for: commercial County: Minnehaha

About _____ miles _____ of _____

PROOF OF PUBLICATION: Received _____ Not Received _____

APPLICATION: Approved _____ Subject to _____

F.F. & C/.L. Adopted _____ Not Approved _____ Deferred _____

PRIORITY _____ Date Received: 4-20-92 Fee: \$150 Remarks _____

Corrected Application Received 7-9-92 Period of Annual Use Jan 1 - Dec 31

WATER QUALITY APPROVAL RECEIVED NA APPROVED/CONDITIONAL (Circle one)

WI-1 Description same as Application YES _____ NO _____ REMARKS _____

Diversion Point: SE 1/4 NW 1/4 Sec 19-T101N-R49W

Land to be Irrigated: _____

Well Log: Driller: Lacey Well Drilling Licensed YES X NO _____

Depth of Well: 25' REMARKS _____

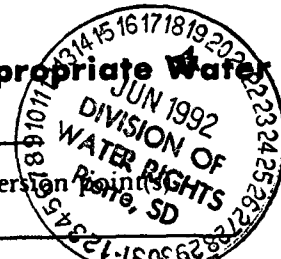
Type of Map: plat PREPARED BY: Thomas O. Berkland, P.E. Reviewed and the Number

Assigned on 7-9-92 By Karen Schlaak

No. 5684-3 Hydrologic Unit 10170203
Basin Big Sioux River
Newspaper Argus Leader, PO Box 5034

331-2200

57117-5034



Application For Permit To Appropriate Water

- Application: ☒ New ☐ Vested Right ☐ Amend Permit No.
☐ Change Acreage ☐ Change diversion point(s) ☐ Add diversion point(s)
☐ Add Acreage ☐ Increase diversion rate ☐ Other

- Name of Applicant Great Plains Zoo & Museum Phone No. 5717059
Post Office Address 805 S Kiwanis Santa Fe State SD Zip Code 57104
(Street, RR or Box) (City)
- Amount of water claimed (c.f.s) 50 gals/min (0.11 cfs)
- Source of Water supply Big Sioux Aquifer
- Location of point of diversion Sec. 19 T101N R. 49W
SE 1/4 NW 1/4
- Counties where water will be used Minnehaha
- Annual period during which water is to be used year around Jan 1 - Dec 31
- List below each forty acre subdivision, or lot, or fraction thereof and show number of acres to be irrigated in each.

Land Description	No. Acres Irr.

Land Description	No. Acres Irr.

Attach sheet if more space is needed

- Type of Irrigation: Gravity: _____ Towline: _____ Center Pivot: _____ Gun: _____ Other: _____ (Specify)
- Crops to be Irrigated: _____
- Give a description of proposed project. (Attach sheet if more space is needed)
keep fresh water in duck pond. - commercial use

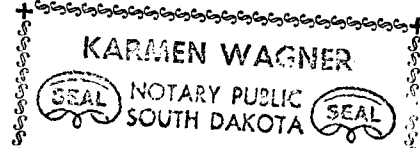
Attachments: Attach Form 2A if diversion from a well or dugout, or if storage of water, is proposed. Attach maps, soils information and any other technical information.

STATE OF SOUTH DAKOTA)
County of _____)

I, MILFORD ELSINE, the applicant, certify that I have read this application and examined the attached maps, that the water sample, if needed, has been taken by the required procedures and has not been adulterated or tampered with and is truly representative of the water to be used, and that the matters stated in this application are true and correct.

Signed Milford Elsing
Maintenance Sup
Subscribed and sworn to before me this 16 day of April 19 12
Karmen Wagner
Notary Public

Subscribed and sworn to before me this



**SOUTH DAKOTA
WATER PERMIT No. 5684-3**

Date of first receipt of application April 20, 1992.

Date of return to applicant for corrections, amendments or changes April 21, 1992.

Date of receipt of corrected application July 9, 1992.

The Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 5684-3 to Great Plains Zoo & Museum, 805 S Kiwanis, Sioux Falls SD 57104 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. 5684-3 appropriates 0.11 cubic feet of water per second (50 gallons per minute) from one well (Big Sioux:South Aquifer) 25 feet deep located in the SE 1/4 NW 1/4 Section 19-T101N-R49W.
2. The water appropriated shall be used for the purpose of supplying water to a duck pond and may not exceed the amount of water needed for beneficial use for commercial purposes.
3. The water is to be used during the following described annual period: January 1 - December 31.
4. The date of approval of Permit No. 5684-3 is September 30, 1992.
5. The date from which applicant may claim right is July 9, 1992.
6. Water rights obtained in compliance with the laws of the State of South Dakota may not be unlawfully impaired by this appropriation.

QUALIFICATION

1. The well authorized by Permit No. 5684-3 shall be constructed by a licensed well driller and construction 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.

WATER MANAGEMENT BOARD

By: _____

John Hatch, Chief Engineer, Water Rights Division
Department of Environment and Natural Resources

NOV 30 1992
date

Supplemental Information

(type or print in ink)



1. Well Information - Proposed construction

- a) Drill Hole Diameter 20" Depth 20 ft
- b) Casing Type P.V.C. Diameter 12" Thickness 200 lb
- c) Screen Type P.V.C. Diameter 12" Thickness 200 lb
- d) Gravel Pack Thickness 4" Length of Gravel Pack 8'
- e) Depth to Top of Water Bearing Material 8'
- f) Depth to Water (ground surface to water level) 10'
- g) Distance to nearest existing domestic well:
- On applicants property 8' On property owned by others none

2. Dugout Information Estimates

- a) Surface Dimensions _____ Depth _____
- b) Depth to water (ground surface to water level) _____

3. Water Storage Dams

If the proposed water use system contains one or more storage dams, please furnish the information requested below. The locations of each dam should 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 _____

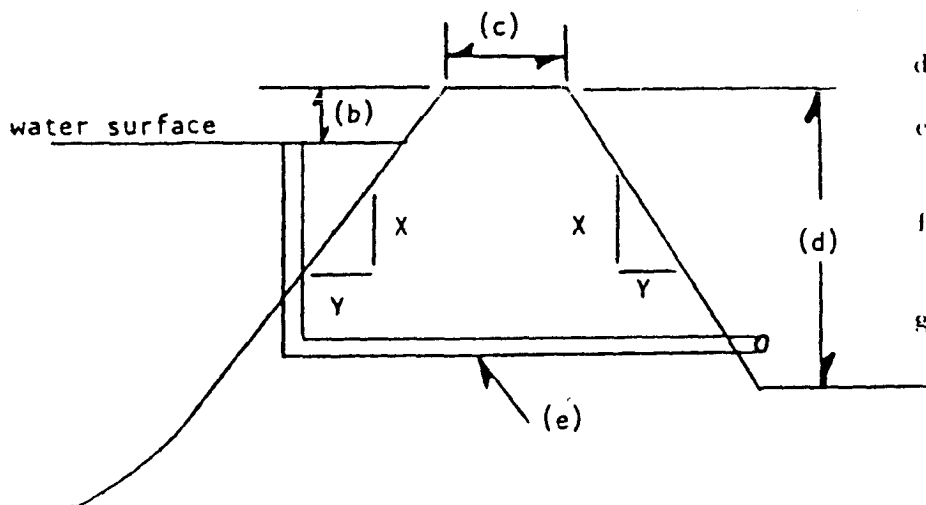
g) X & Y Slope
Upstream _____

Downstream _____

Surface Area of Impoundment _____

Storage _____ acre feet

Drainage area above dam _____



Melford Ewing
Signature of Applicant

Supplemental Information

(type or print in ink)



1. Well Information - Proposed construction

- a) Drill Hole Diameter 20" Depth 25'
- b) Casing Type plastic Diameter 8"-12" Thickness C1200
- c) Screen Type PVC Diameter 8-12" Thickness C1200
- d) Gravel Pack Thickness 4" Length of Gravel Pack 10'
- e) Depth to Top of Water Bearing Material 15-18'
- f) Depth to Water (ground surface to water level) SAME
- g) Distance to nearest existing domestic well:
 On applicants property 350' On property owned by others NO IDEA

2. Dugout Information Estimates

- a) Surface Dimensions _____ Depth _____
- b) Depth to water (ground surface to water level) _____

3. Water Storage Dams

If the proposed water use system contains one or more storage dams, please furnish the information requested below. The locations of each dam should 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

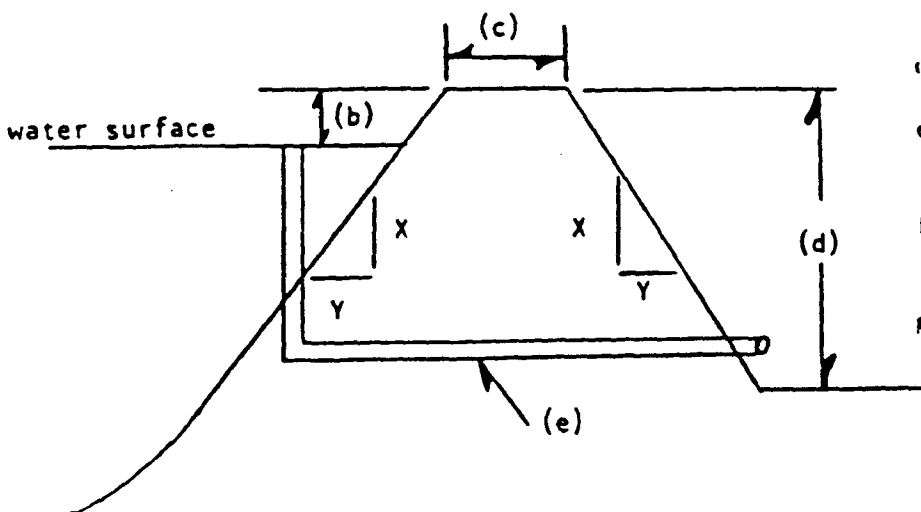
Upstream _____

Downstream _____

Surface Area of Impoundment _____

Storage _____ acre feet

Drainage area above dam _____



Mel Elong
 Signature of Applicant
Maintenance Sup.

SOUTH DAKOTA WATER WELL COMPLETION REPORT

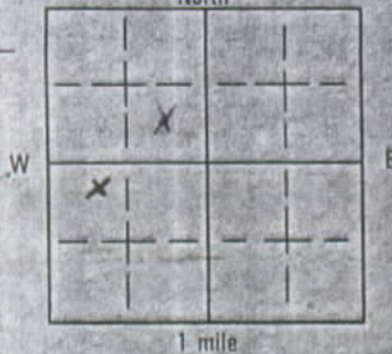
10-85

Location NW 1/4 SW 1/4 Sec Twp 101-N Rg 49-W

County SE 1/4 NW 1/4 Sec 19 (BAM) North

Minnehaha

Please mark well location with an "X"



Well Completion Date 8-3-92

PROPOSED USE:

☐ Domestic ☒ Municipal ☐ Test Holes
☐ Irrigation ☐ Industrial ☐ Stock

Method of Drilling:

Bucket

CASING DATA:

☐ Steel ☒ Plastic ☐ Other

If other describe

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
160 LB/FT	12" IN	+2 FT	20 FT	20" IN

GROUT:

Was the well grouted? ☒ YES ☐ NO

To what depth? 2' to 11' FEET

What is grouting material? Bentonite / PIPES UNIT @ 4'

If cement, number of sacks?

Describe grouting procedure

What was grout weight? LB/GAL

SCREEN: ☐ Perforated pipe ☒ Manufactured

Diameter 12" IN Length 5' FEET

Material PVC 160pd

Slot Size hand Set From 15 Feet To 20 Feet

Slot Size Set From Feet To Feet

Slot Size Set From Feet To Feet

Other information

Was a packer or seal used? ☐ YES ☒ NO

If so, what material?

Describe packer(s) and location?

Was well disinfected upon completion? ☒ YES ☐ NO

Explain Chlorine

Bacteriological analysis ☐ YES ☐ NO

Laboratory sent to

Well Owner:

Name Great Plains Zoo & Museum

Address 805 S. KIDWELL AVE. S.F.S.D. 57104

Well Log:

Depth

Formation

From

To

Fill Dirt

0

8

Grey Clay

8

11

Clean mixed Gravel

11

20

Granite

20'



STATIC WATER LEVEL 11' Feet

If flowing, closed in pressure PSI

GPM flow through inch pipe

Controlled by ☐ Valve ☐ Reducers ☐ Other

If other, specify

Can well be completely shut in?

WELL TEST DATA:

☒ Pumped☐ Bailed

Describe:

☐ Other

Pumping Level Below Land Surface

15' ft. After 24 Hrs. pumped 30 GPM

ft. After Hrs. pumped GPM

ft. After Hrs. pumped GPM

REMARKS:

PIPES UNIT @ 4'

This well was drilled under license # 111

And this report is true and accurate.

Drilling firm Lacey Well Drilling

Signature of License Representative:

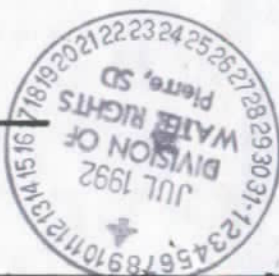
Joan Redden-Lacey

Signature of Well Owner:

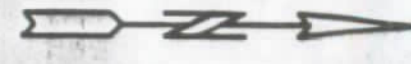
Edward E. Lacey

Date 8/17/92

Appl. No. 5684-3



WELL
LOCATION



SCALE: 1" = 300'

N70°25'E
2112'

SECTION LINE

W 1/4 COR. SEC. 19-101-49
FOUND 6"x6" STONE

N89°33'21"E
(Assumed bearing
for this line)

1/4 LINE

CENTER OF SEC.
19-101-49

1/4 LINE

SURVEYORS CERTIFICATE

I, Thomas O. Berkland, Registered Land
Surveyor No. 4215, do hereby certify that this
survey was performed under my direct
supervision, and this drawing shows well location
in relationship to the 1/4 corner shown.

Thomas O. Berkland

R.L.S. No. 4215



GREAT PLAINS ZOO
WELL LOCATION

DRAWN BY: WMB	REVISED:
CHECKED BY: WRB	DATE: JUNE 15, 92

RECEIPT

Division of Water Rights

South Dakota Department of Water and Natural Resources

413262

Pierre, June 23, 1992

RECEIVED OF Great Plains Zoo, 805 S Kiwanis, Sioux Falls, SD 57104-3714

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

Fee for Application for Permit No. <u>5684-3</u> to Appropriate Water, to construct works and to put water to beneficial use _____	150	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. _____		
Fee for Filing Transfer Form _____		
Fee for Filing Extension Request _____		
Fee for Certified Copy of _____		
Fee for Print Copy of Map _____		
Fee for Certifying _____		
Fee for _____		
(Any Other Work Provided by Law)		
Total	150	00

By John H. H. H. H.
Chief Engineer



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE SOUTH DAKOTA 57501-3181

April 21, 1992

Great Plains Zoo & Museum
Milford Elsing, Maintenance Supt.
805 S Kiwanis
Sioux Falls SD 57104

Dear Mr. Elsing:

In regard to the water permit application received on April 20, 1992 for the Great Plains Zoo, the following information needs to be submitted in order to process your application.

1. On Item No. 4 of the application, please state the quarter-quarter (40 acre parcel) of Section 19 where the well is located.
2. A map showing the location of the diversion point (place where the well is located) in relation to a government section corner or quarter corner by direction and distance. The map must be signed by one of the following: Registered Land Surveyor, Registered Professional Engineer or by any other government employee who normally prepares maps as a part of his assigned duties (i.e. local SCS or ASCS office).
3. A well log or driller's test log signed by a South Dakota licensed well driller must accompany the application.
4. The filing fee for the amount of water claimed will be \$150.00.

Upon receipt of the above, further processing of the application will continue.

If you have any questions, please contact this office.

Sincerely,

Karen Schlaak

Karen Schlaak
Natural Resources Analyst
605 773-3352

enclosure



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE SOUTH DAKOTA 57501-3181

June 23, 1992

Ed Asper
Great Plains Zoo and Museum
805 S. Kiwanis
Sioux Falls, SD 57104

Dear Mr. Asper:

Enclosed is an instruction sheet for the application of a water permit (non-irrigation). I have highlighted the items you need to send in order to complete the application process.

Thank you for your time, and if you have any questions, please feel free to contact me.

Sincerely,

Gregory C. Johnston
Gregory C. Johnston
Natural Resources Engineer
Water Rights Division
(605) 773-3352

encl

*Mel- here is the
material from Greg regarding
our application.*

S.D. D.N.R.



7-7-92

GENTLEMEN -

WE ARE JUST REPLACING
AN OLD WELL FOR THE ZOO -
NO TEST HOLE WILL BE
DRILLED - WE'LL ABANDON
THE EXISTING WELL WHEN
FINISHED AND SEND IN A
WELL LOG.

Thanks
Jim Lacey
S.D. 111

REPORT ON APPLICATION NO. 5684-3
for the Great Plains Zoo and Museum
August 18, 1992

Application No. 5684-3 proposes to appropriate 0.11 cfs (50 gpm) from one well approximately 25 feet deep located in the SE 1/4 NW 1/4 of section 19, T101N R49W in Minnehaha County. The water is for commercial use at the zoo.

AQUIFER - BIG SIOUX SOUTH (BS-S)

The Big Sioux South is an alluvium mantled outwash (sand and gravel) under predominantly unconfined (water table) conditions. The aquifer underlies 17,200 acres and contains an estimated 20,640 acre feet of recoverable water in storage (Hedges, 1982). The aquifer is hydraulically connected to the Big Sioux River, the Big Sioux Southern Skunk Creek aquifer to the west, the Sioux Quartzite and possibly to the Big Sioux Sioux Falls aquifer to the north.

According to the letter submitted by the driller this is a replacement well for existing well used by the facility and is anticipated to about 25 feet deep with a static water level of about 15 to 18 feet below land surface.

The Division of Water Rights monitors one observation well MA-57I which is located about 1 mile west of this site and is completed into the Big Sioux Southern Skunk Creek aquifer. The water level record for this well should also be representative of the Big Sioux South aquifer. Water levels respond to climatic conditions, that is, rising during wet years and gradually declining during dry years. The record indicates that the aquifer is capable of sustaining additional withdrawals (Water Rights, 1992).

REVIEW OF EXISTING WATER PERMITS/RIGHTS

The only other permit in this area is No. 5517-3 which is also held by the Great Plains Zoo. Interference is not expected to be a concern. The pumping rates are relatively low and drawdown is not expected to be significant. Any other permitted diversions are over 1/2 mile distant from this application.

CONCLUSIONS

1. Water is available from the Big Sioux South aquifer.
2. The aquifer is unconfined and drawdown caused by pumping is not expected to be significant. Interference should not be a concern.
3. Any well authorized by this permit must be constructed in accordance with SD Well Construction Standards. The existing well, if abandoned, must be plugged in accordance with the standards.

4. The water will be used to keep fresh water in a duck pond and is not to be used as a potable source.


James A Goodman
Natural Resources Engineer

BIBLIOGRAPHY

Hedges, L.S., etal, 1982, Evaluation of Ground-Water Resources Eastern SD and Upper Big Sioux River, SD and Iowa, for US Army Corps of Engineers, SD DENR, SDGS, Vermillion, SD, 57069.

Water Rights, 1992, Unpublished Observation Well Records for Minnehaha County, SD DENR, Division of Water Rights, Pierre, SD, 57501.

RECOMMENDATION OF CHIEF ENGINEER FOR WATER PERMIT
APPLICATION NO. 5684-3, Great Plains Zoo and Museum

Pursuant to SDCL 46-2A-2, the following is the recommendation of the Chief Engineer, Water Rights Division, Department of Environment and Natural Resources concerning Water Permit Application No. 5684-3, Great Plains Zoo and Museum, c/o Milford Elsing, Maintenance Supt., 805 S. Kiwanis, Sioux Falls, SD 57104.

The Chief Engineer is recommending APPROVAL of Application No. 5684-3 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 qualification:

The well authorized by Permit No. 5684-3 shall be constructed by a licensed well driller and construction 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.

See report on application for additional information.

A handwritten signature in black ink, appearing to read "John Hatch", with a stylized, cursive script.

JOHN HATCH, Chief Engineer
August 18, 1992



GREAT FACES. GREAT PLACES.

**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE SOUTH DAKOTA 57501-3181

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

August 26, 1992

Milford Elsing, Maintenance Supt.
Great Plains Zoo & Museum
805 S Kiwanis
Sioux Falls, SD 57104

Dear Mr. Elsing:

Water Permit Application No. 5684-3 for commercial use has been examined and found to comply with the South Dakota Water Laws and applicable rules. A notice of hearing has been sent to the Publisher of the Argus Leader printed at Sioux Falls, SD (Ph # 331-2200). For your information, a copy of the notice, the recommendation of the Chief Engineer and a 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 of Hearing and to arrange for payment. Early contact with the paper can eliminate delays. The publisher has been instructed to publish your notice once each week for two consecutive weeks with the last publication to occur twenty days before the board meeting. The newspaper has 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.



GREAT FACES. GREAT PLACES.

**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE SOUTH DAKOTA 57501-3181

August 26, 1992

Argus Leader
PO Box 5034
Sioux Falls, SD 57117-5034

ATTENTION: Legal Department

Enclosed is a Notice of Hearing on Application No. 5684-3 to be published twice. Please publish the first notice on September 2, 1992, with the second publication 7 days later.

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 Great Plains Zoo & Museum, 805 S Kiwanis, Sioux Falls, SD 57104 (Ph # 339-7059).

A copy of BOTH publications must be SENT to the WATER RIGHTS DIVISION. IMMEDIATELY return the FIRST publication with the FIRST Transmittal form on the bottom of this page. The first copy is needed to check the publication for errors so any corrections can be made in the second publication. Publication errors can invalidate the public notice and cause the applicant costly delays.

Please be sure the SECOND publication is returned IMMEDIATELY with the enclosed Proof of Publication form. DO NOT WAIT until the end of the month or the billing cycle. No action may be taken on the permit application until proof of publication has been received.

Sincerely,

Eric Gronlund

Eric Gronlund
Natural Resources Engineer
605 773-3352

enclosures

-----CUT HERE-----
FIRST TRANSMITTAL NOTICE

No. _____

Date _____

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

We are in receipt of your letter of _____ enclosing Notice of Hearing to Appropriate Water by Application No. _____ which was first published in our issue of _____. ENCLOSED IS A COPY OF THIS FIRST PUBLICATION.

Name

Newspaper

Instruction to Newspaper - Publish first Notice on September 2, 1992, with the second publication 7 days later. The applicant is responsible for payment.

NOTICE OF HEARING on Application No. 5684-3 to Appropriate Water

Notice is given that Great Plains Zoo & Museum, 805 S Kiwanis, Sioux Falls, SD 57104 has filed an application for a water permit to appropriate 0.11 cubic feet of water per second (50 gallons per minute) from one well (Big Sioux:South Aquifer) 25 feet deep located in the SE 1/4 NW 1/4 Section 19-T101N-R49W. The water is for commercial use at the zoo.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 5684-3 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. Unless a petition is filed opposing the application or the applicant files a petition contesting the chief engineer's recommendation, the Water Management Board will NOT CONDUCT a HEARING to consider this application and the chief engineer will issue the permit as recommended. Petitions filed in support of the application will NOT require the Board to hear the application.

Any person interested in opposing or supporting this application must file a written petition with BOTH the applicant and Chief Engineer. The applicant must also file a petition if opposed to the Chief Engineer's recommendation. The Chief Engineer's address is "Water Rights Division, 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 September 21, 1992. 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 a petition is filed opposing the application or the applicant files a petition contesting the chief engineer's recommendation, the Board will consider this application at 10:00 am, September 30, 1992, Floyd Matthew Training Center, Joe Foss Building, 523 East Capitol, Pierre, SD. If a hearing is held, the Chief Engineer's recommendation is not final or binding upon the Board. The Board is authorized to 1) approve, 2) approve with qualifications, 3) defer, or 4) deny this application based on the facts presented at the public hearing. The September 30, 1992, hearing date will be automatically delayed for at least 20 days upon written request to the Chief Engineer from the applicant or any interested person opposing the application. The request for an automatic delay must be filed by September 21, 1992.

Any hearing will be an adversary proceeding. Any person filing a petition and/or the applicant have the right to be represented by a lawyer and may present evidence or cross-examine witnesses according to SDCL 1-26. These and other due process rights will be forfeited if not exercised. Decisions of the Board may be appealed to the Circuit Court and State Supreme Court as provided by law. Contact Eric Gronlund by September 21, 1992, at the above Water Rights Division address to request copies of information pertaining to this application, to assure access to the hearing by the handicapped or to obtain an interpreter for the hearing impaired.

This application is made pursuant to SDCL 46-1-1 thru 46-1-9, 46-1-12 thru 46-1-16; 46-2-3.1, 46-2-9, 46-2-11, 46-2-13, 46-2-17; 46-2A-1 thru 46-2A-10, 46-2A-12, 46-2A-14, 46-2A-15, 46-2A-20, 46-2A-21; 46-5-1 thru 46-5-11, 46-5-13 thru 46-5-15, 46-5-24, 46-5-25, 46-5-30.2, 46-5-30.4, 46-5-31; 46-6-3, 46-6-3.1, 46-6-6.1, 46-6-10, 46-6-13, 46-6-14, 46-6-26; and Board Rules ARSD 74:02:01:01 thru 74:02:01:15. Robert E. Roberts, Secretary, Department of Environment and Natural Resources.

AFFIDAVIT OF PUBLICATION

STATE OF SOUTH DAKOTA,

SS.

COUNTY OF MINNEHAHA

M. DEVISH

.....being duly sworn, says: That the Argus Leader is, and during all the times hereinafter mentioned was, a daily legal newspaper as defined by SDCL 17-2-21, as amended published at Sioux Falls, Minnehaha County, South Dakota, by Sioux Falls Newspapers, Inc.; that affiant is and during all of said times, was an employee of the publisher of such newspaper and has personal knowledge of the facts stated in this affidavit; that the notice, order or advertisement, a printed copy of which is hereto attached, was published in said newspaper upon

Wednesday, the 2 day of September, 19 92

Wednesday, the 9 day of September, 19 92

_____, the _____ day of _____, 19____,

_____, the _____ day of _____, 19____,

_____, the _____ day of _____, 19____,

_____, the _____ day of _____, 19____,

_____, the _____ day of _____, 19____,

and that \$111.34 was charged for publishing the same including a \$2.00 affidavit fee.

M. Devish

Subscribed and sworn to before me September 9, 19 92

Nancy A. Buckley
Notary Public, South Dakota



NOTICE OF HEARING

on Application No. 5684-3 to Appropriate Water
Notice is given that Great Plains Zoo & Museum, 805 S Kiwanis, Sioux Falls, SD 57104 has filed an application for a water permit to appropriate 0.11 cubic feet of water per second (50 gallons per minute) from one well (Big Sioux: South Aquifer) 25 feet deep located in the SE 1/4 NW 1/4 Section 19-T101N-R49W. The water is for commercial use at the zoo.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 5684-3 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. Unless a petition is filed opposing the application or the applicant files a petition contesting the chief engineer's recommendation, the Water Management Board will NOT CONDUCT a HEARING to consider this application and the chief engineer will issue the permit as recommended. Petitions filed in support of the application will NOT require the Board to hear the application.

Any person interested in opposing or supporting this application must file a written petition with BOTH the applicant and Chief Engineer. The applicant must also file a petition if opposed to the Chief Engineer's recommendation. The Chief Engineer's address is "Water Rights Division, 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 September 21, 1992. 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 a petition is filed opposing the application or the applicant files a petition contesting the chief engineer's recommendation, the Board will consider this application at 10:00 am, September 30, 1992, Floyd Matthew Training Center, Joe Foss Building, 523 East Capitol, Pierre, SD. If a hearing is held, the Chief Engineer's recommendation is not final or binding upon the Board. The Board is authorized to 1) approve, 2) approve with qualifications, 3) defer, or 4) deny this application based on the facts presented at the public hearing. The September 30, 1992, hearing date will be automatically delayed for at least 20 days upon written request to the Chief Engineer from the applicant or any interested person opposing the application. The request for an automatic delay must be filed by September 21, 1992.

Any hearing will be an adversary proceeding. Any person filing a petition and/or the applicant have the right to be represented by a lawyer and may present evidence or cross-examine witnesses according to SDCL 1-26. These and other due process rights will be forfeited if not exercised. Decisions of the Board may be appealed to the Circuit Court and State Supreme Court as provided by law. Contact Eric Gronlund by September 21, 1992, at the above Water Rights Division address to request copies of information pertaining to this application, to assure access to the hearing by the handicapped or to obtain an interpreter for the hearing impaired.

This application is made pursuant to SDCL 46-1-1 thru 46-1-9, 46-1-12 thru 46-1-16; 46-2-3.1, 46-2-9, 46-2-11, 46-2-13, 46-2-17; 46-2A-1 thru 46-2A-10, 46-2A-12, 46-2A-14, 46-2A-15, 46-2A-20, 46-2A-21; 46-5-1 thru 46-5-11, 46-5-13 thru 46-5-15, 46-5-24, 46-5-25, 46-5-30.2, 46-5-30.4, 46-5-31; 46-6-3, 46-6-3.1, 46-6-6.1, 46-6-10, 46-6-13, 46-6-14, 46-6-26; and Board Rules ARSD 74:02:01:01 thru 74:02:01:15.

Robert E. Roberts, Secretary
Department of Environment and
Natural Resources



NOV 3 0 1992

**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE SOUTH DAKOTA 57501-3181

Milford Elsing, Maintenance Supt.
Great Plains Zoo & Museum
805 S Kiwanis
Sioux Falls, SD 57104

Dear Mr. Elsing:

Enclosed is Water Permit No. 5684-3 authorizing your water diversion system and beneficial use of the water, not exceeding the limits as specified in the Water Permit.

The final inspection has been completed on this Permit, and we are ready to issue the Water License. Statutes require we charge \$50 for the inspection and issuance of the final papers. Upon receipt of this amount the Water License will be sent to you.

Very truly yours,

JOHN HATCH, Chief Engineer
Water Rights Division
605 773-3352

enclosures



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE SOUTH DAKOTA 57501-3181

February 12, 1993

SECOND NOTICE

PERMIT NO: 5684-3

NOTICE OF WATER LICENSE INSPECTION FEE REQUIREMENT

Milford Elsing, Maintenance Supt.
Great Plains Zoo & Museum
805 S. Kiwanis
Sioux Falls, SD 57104

Dear Mr. Elsing:

On November 30, 1992, you were notified the final inspection fee of \$50.00 is due before Water License No. 5684-3 can be issued. As of this date, the fee has not been received.

The fee is a final step in the legal process of obtaining and perfecting a water right and is required by SDCL 46-2-13(3). Upon receipt of the \$50.00 fee, your Water License will be sent to you. This is the final document for the perfection of your Water Right. A perfected water right is similar to a property right and once a water right is perfected, it cannot be lost as long as the water is used.

South Dakota Water Law 46-5-30.1 requires that a permit holder may not divert water until the License fee has been paid. Please submit the required fee immediately to avoid jeopardizing your water permit.

Very truly yours,

John Hatch, Chief Engineer
Water Rights Division
Phone: (605) 773-3352

Is your RETURN ADDRESS completed on the reverse side?

SENDER:

- Complete items 1 and/or 2 for additional services.
- Complete items 3, and 4a & b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

1. ☐ Addressee's Address
2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

5684-3

Milford Elsing, Maint. Supt.
Great Plains Zoo & Museum
805 S. Kiwanis
Sioux Falls, SD 57104

4a. Article Number

P 318 052 501

4b. Service Type

- | | |
|---|---|
| ☐ Registered | ☐ Insured |
| ☒ Certified | ☐ COD |
| ☐ Express Mail | ☐ Return Receipt for Merchandise |

7. Date of Delivery

8/17

5. Signature (Addressee)

6. Signature (Agent)

8. Addressee's Address (Only if requested and fee is paid)

PS Form 3811, December 1991

★U.S. GPO: 1992-323-402

DOMESTIC RETURN RECEIPT

Thank you for using Return Receipt Service.

RECEIPT

413642

Division of Water Rights

South Dakota Department of Environment and Natural Resources

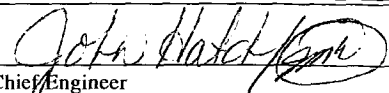
Pierre, _____ February 18, 19 93

RECEIVED OF Great Plains Zoo & Museum, 805 S. Kiwanis, Sioux Falls, SD 57104

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

Fee for Application for Permit No. _____ to Appropriate Water, to construct and to put water to beneficial use _____		
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>5684-3</u>	50	00
Fee for Filing Transfer Form _____		
Fee for Filing Extension Request _____		
Fee for _____		

(Any Other Work Provided by Law)	Total	50 00

By 
Chief Engineer



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE SOUTH DAKOTA 57501-3181

March 8, 1993

Milford Elsing
Maintenance Supervisor
Great Plains Zoo and Museum
805 S. Kiwanis
Sioux Falls, SD 57104

Dear Mr. Elsing:

This letter is in regards to Water Permit No. 5684-3 which appropriates 0.11 cfs (50 gpm) of water for the duck pond at the Great Plains Zoo. I need some information regarding the well, pump, motor and supply lines for the system supplying water to the duck pond. This information will be used to write a water license, thus insuring your water right to divert water for the pond. The following information is needed:

- 1) Pump make, model and capacity (gpm)
- 2) Pump motor make, model and horsepower
- 3) Capacity (gpm) of the system to supply water to the duck pond.
- 4) Length, diameter and type of supply lines carrying water from the well to the duck pond.

Please send this information at your earliest convenience in order that the water license may be completed.

If you have any questions, please feel free to contact me.

Sincerely,

Gregory C. Johnston
Natural Resources Engineer II
Water Rights Division
(605) 773-3352

In Water Since 1946

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Test Drilling
Irrigation Supplies

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Deer Rapid, South Dakota 57022
Telephone 428-5686 or 428-5979

Pumps
Water Specialists
Water Source Heat Pumps

Great Plains 200

3-11-93

pump Installed for duck pond :

Make - Grundfos

Model - 25505-3

Gpm - 25 (30)

HP - 1/2

1 1/2" pvc pipe 14 FT.



Joan Redder-Lacey
LACEY WELL DRILLING

Permit No. 5684-3

Big Sioux River Water District

Report Of Examination Of Works And/Or Application of Water To Beneficial Use

TO: Chief Engineer, Division of Water Rights, DENR, Foss Bldg., Pierre, SD 57501

I have this day made a thorough examination of the water use system constructed by Great Plains Zoo and Museum of 805 S. Kiwanis, Sioux Falls, SD 57104 holder of Permit No. 5684-3, bearing the priority of July 9, 1992 authorizing the diversion of 0.11 cu. ft. per second of the waters of the Big Sioux - South Aquifer for commercial purposes, in Minnehaha County.

I have to report on the conditions of the same as follows:

A. Works used to divert the water:

One well - 20' deep with 15' of 12" plastic casing, 5' of 12" PVC screen, Grundfos pump, Model No. 2SS05-3, 3", 5 stages, 1/2 HP motor, 30 GPM

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

14' of 1.5" PVC pipe

C. Works used to apply water to beneficial use:

System supplies water to a duck pond at the Zoo

The system is in the following condition excellent. The point of diversion is located 1988'E and 1927'S of the NW corner of Section 19-T101N-R49W. The works are capable of diverting and conveying to the place of use 0.067 cu. ft. per second of water which is to be used for commercial purposes. Water has been put to beneficial use. The license should be issued for 0.067 cfs.

Applicable permit qualifications have been complied with ☒ Yes ☐ No

Exceptions to compliance are: None Date 5/10/92


Gregory C. Johnston
Natural Resources Engineer II
DENR, Water Rights Division

REPORT ON INSPECTION OF PERMIT NUMBER 5684-3

DATE 5/10/92

Other permit(s) associated with the project

DIVERSION POINT LEGAL LOCATION: 1988'E and 1927'S of the NW corner of Section 19-T101N-R49W

WELL INFORMATION: Well Drilling Firm Lacey Well Drilling

No. of Wells 1 Depth(s) 20

a) Casing: 1) diameter 12 inches

2) length 15 feet

3) type PVC

d) Static Water Level 11 feet

e) Motor:

1) make Grundfos

2) model No. same as pump

3) horsepower rating 1/2 hp

b) Screen: 1) type 12" PVC

2) length 5 feet

1) make Grundfos

2) model 2SS05-3

3) size 3 inches

4) capacity 30 GPM

5) turbine pump - No. of stages 5

6) operating pressure unknown PSI

DISTRIBUTION LINES OR CANALS:

a) type PVC b) size 1.5 inches c) length 14 feet

System Type:

a) System supplies water to a Duck pond at the zoo

CHEMIGATION EQUIPMENT:

a) does chemigate N (Y/N)

PERMIT QUALIFICATIONS AND REGULATIONS:

a) Soil and water permit lands agree with lands being irrigated and lands listed on permit N/A (Y/N)

b) Special qualifications to permit being abided by Y (Y/N)

c) All structures, wells and lands on map Y (Y/N)

d) Irrigation Questionnaires checked to determine if permit owner started irrigation by the end of construction period N/A (Y/N)

NO. 5684-3
GREAT PLAINS ZOO
DRAWN BY: GREGORY C. JOHNSTON

Gregory C. Johnston

NATURAL RESOURCES ENGINEER II
DIVISION OF WATER RIGHTS, DENR

3/29/93

N
1"=660'



5684-3

STATE OF SOUTH DAKOTA
WATER LICENSE NO. 5684-3

(1) Great Plains Zoo and Museum of 805 S Kiwanis, Sioux Falls, SD 57104 made Application No. 5684-3, April 20, 1992 for a water permit to divert 0.11 cubic feet of water per second from groundwater (one well), Minnehaha County, South Dakota, for commercial purposes. Permit No. 5684-3, with a priority date of July 9, 1992 was approved September 30, 1992 and issued to the applicant for diversion of water with construction of the described water supply system completed and application to beneficial use of said water completed.

(2) It is certified that the applicant has complied with the provisions of South Dakota State Law relating to completion of the construction of the water supply system and is entitled to divert 0.067 cubic feet of water per second for beneficial use. The location of the diversion point is 1988 feet E and 1927 feet S of the NW corner of Section 19 T101N-R49W (SE 1/4 NW 1/4).

(3) The applicant has complied with the provisions of South Dakota State Law relating to the application of water to beneficial use for supplying water to a duck pond.

(4) Pursuant to South Dakota Water Law 46-5-30.1 Great Plains Zoo and Museum of 805 S Kiwanis, Sioux Falls, SD 57104 the holder and/or owner of Water Permit No. 5684-3 is issued a license to appropriate water, the right to divert 0.067 cubic feet of water per second from groundwater (one well) with a priority date of July 9, 1992 from the location specified in (2) of this license. The water is to be used for the purpose of commercial use. This license is subject to any limitations or qualifications listed in Water Permit No. 5684-3 and subject to South Dakota State Law.



JOHN HATCH, Chief Engineer
Water Rights Division
Department of Environment and Natural Resources

AUG 19 1994

date



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE SOUTH DAKOTA 57501-3181

AUG 19 1994

5684-3

Milford Elsing, Maintenance Supt.
Great Plains Zoo and Museum
805 S. Kiwanis
Sioux Falls, SD 57104

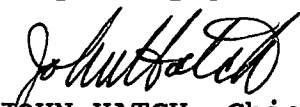
Dear Mr. Elsing:

Enclosed is Water License No. 5684-3. This is the final water right document completing your process of obtaining a Water Right. Enclosed is Receipt No. 413642 in the amount of \$50.00 which you paid for the inspection and issuance of the Water License.

For your information SDCL 46-6-27 requires that if the owner of an existing well, such as the well authorized by Water Right No. 5684-3, constructs a replacement well and does not plan to use the old well, the old well is considered abandoned and must be plugged. Also, any well that is being used or is not considered abandoned must be valved and controlled, if flowing, or sealed and capped so that no leaking occurs either underground or at the surface.

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

Very truly yours,


JOHN HATCH, Chief Engineer
Water Rights Division
(605) 773-3352

ks
enclosures