

WATER PERMIT NO. 6122-3

Name of Applicant: City of Watertown – Parks & Rec Dept.

Address: PO Box 910, Watertown SD 57201

Phone: 605 882-6260

Amount of Water Claimed: 0.333 cfs (150 gpm)

Total Acres: 12

Source of Water Supply: groundwater (one well)

Water to be used for: irrigation County: CD

Type of Waste Disposal System: NA

Location: within city limits of Watertown

PRIORITY Date Received: 1-15-99 Fee: \$150

Corrected Application Received: Period of Annual Use: April 1 – October 31

Remarks: For watering the softball/baseball complex

Diversion Point: SW ¼ NW ¼ Sec 36-T117N-R53W

Land to be Irrigated: SW ¼ NW ¼
Sec 36-T117N-R53W

Depth of Well: 48 feet deep

Well Driller: Bullis Brothers

Remarks:

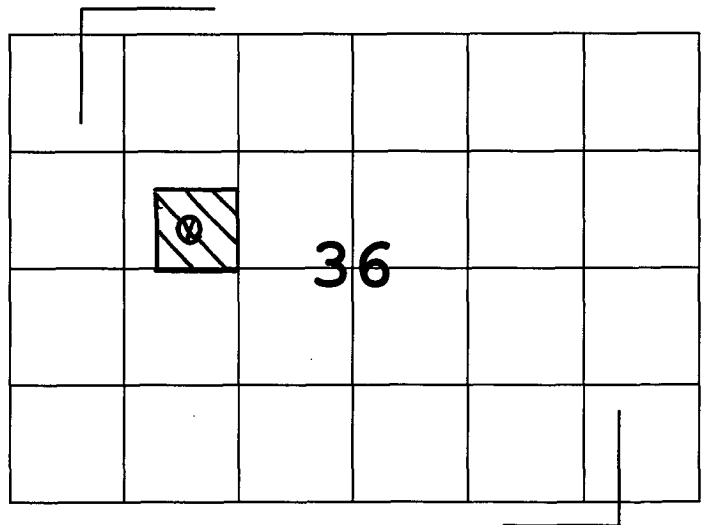
Type of Map: plat

Prepared by: David Petersen, City Engineer

Reviewed and the Number Assigned on: 1-15-99

By: Karen Schlaak

Notice of Hearing - date to intervene: _____



**REISSUED
SOUTH DAKOTA
TEMPORARY USE WATER PERMIT NO. 6122-3
AS DEVELOPED**

On March 1, 1999, the Chief Engineer, on behalf of the Water Management Board, issued Temporary Water Permit No. 6122-3 to the City of Watertown Parks and Recreation Department, PO Box 910, Watertown SD 57201 authorizing construction of the water use system and placement of water to beneficial use.

1. On July 2, 2002, an investigation was conducted of the water use system described in Temporary Use Water Permit No. 6122-3. The investigation found the system had been developed as authorized. A 48 feet deep well (Big Sioux North Aquifer), located 1,720'S and 910'E of the NW corner of Section 36, T117N, R53W, diverts 0.33 cubic feet of water per second for irrigation of a 12 acre softball/baseball complex located in the SW ¼ NW ¼ Section 12, T117N, R53W.
2. The amount of the water appropriation may not exceed 2 acre feet annually for each acre of land to which water is actually and beneficially applied for irrigation. The water is to be used during the following described annual period: April 1 – October 31.
3. The date from which the temporary use water permit holder may claim right is January 15, 1999.
4. 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 Watertown Municipal Utilities Department has priority rights to this water under future use withdrawal permits. This permit is issued as a temporary use permit pursuant to SDCL 46-5-39 and is subject to Watertown Municipal Utilities Department's prior rights if or when the city develops the reserved water supply. The permit may be subject to cancellation when the city puts to beneficial use water reserved by the future use permits. The Chief Engineer must provide the permit holder six months notice prior to cancellation of this temporary use permit.
2. If development and pumping water from the North Management Unit of the Big Sioux Aquifer which is appropriated by this temporary use permit results in adverse impairment of adequate domestic wells or adequate wells having prior rights, reduction of withdrawals or mitigation may be necessary. SDCL 46-1-5(1), in giving preference to domestic use over appropriative rights does so without regard to 1) whether lowered groundwater levels are due to drought, 2) the location of the domestic wells in the aquifer, or 3) the thickness of the water bearing sands and gravels; subject to compliance with minimum requirements for adequate wells as defined by Board Well Construction Standards, Chapter 74:02:04.
3. The well authorized by Permit No. 6122-3 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) from the producing formation to the surface pursuant to Section 74:02:04:28.

(continued)

4. SDCL 46-5-6 allows a greater diversion rate if the method of irrigation, time constraints, or type of soils so requires. Therefore, Permit No. 6122-3 authorizes a maximum diversion rate of 0.33 cfs for the irrigation of 12 acres of turf with an annual volume not to exceed 3 acre-feet of water per acre per year.
5. This Permit is approved subject to the irrigation water use questionnaire being submitted each year.

WATER MANAGEMENT BOARD

By: Garland Erbele
Garland Erbele, Chief Engineer
Water Rights Program
Department of Environment and Natural Resources

MAR 12 2003

date



SOUTH DAKOTA
TEMPORARY WATER PERMIT NO. 6122-3

Date of first receipt of application January 15, 1999.

Date of return to applicant for corrections, amendments or changes January 15, 1999.

Date of receipt of corrected application January 21, 1999.

The Chief Engineer, on behalf of the Water Management Board, issues Temporary Water Permit No. 6122-3 to City of Watertown, Parks and Recreation Department, PO Box 910, Watertown SD 57201 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. Temporary Water Permit No. 6122-3 appropriates 0.33 cubic feet of water per second (150 gallons per minute) from one well (Big Sioux North Aquifer) 48 feet deep located in the SW $\frac{1}{4}$ NW $\frac{1}{4}$ Section 36 to irrigate 12 acres at the softball/baseball complex located in the SW $\frac{1}{4}$ NW $\frac{1}{4}$ Section 36; all in T117N-R53W.
2. The amount of the appropriation may not exceed 2 acre feet annually for each acre of land to which water is actually and beneficially applied for irrigation. The water is to be used during the following described annual period: April 1 – October 31.
3. The date from which applicant may claim right is January 15, 1999.
4. The date of approval of Permit No. 6122-3 is March 1, 1999.
5. One-fifth of the construction is to be completed on or before September 1, 2001.
6. All construction is to be completed on or before March 1, 2004.
7. Water is to be put to beneficial use on or before March 1, 2008.
8. Water rights obtained in compliance with the laws of the State of South Dakota may not be unlawfully impaired by this appropriation.

QUALIFICATIONS

1. The Watertown Municipal Utilities Department has priority rights to this water under future use withdrawal permits. This permit is issued as a temporary permit pursuant to SDCL 46-5-39 and is subject to Watertown Municipal Utilities Department's prior rights if or when the city develops the reserved water supply. The permit may be subject to cancellation when the city puts to beneficial use water reserved by the future use permits. The Chief Engineer must provide the permit holder six months notice prior to cancellation of this temporary permit

(continued)

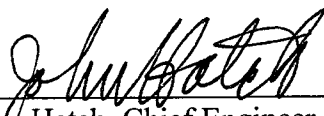
Temporary Water Permit No. 6122-3

City of Watertown

Page 2

2. If development and pumping water from the North Management Unit of the Big Sioux Aquifer which is appropriated by this temporary permit results in adverse impairment of adequate domestic wells or adequate wells having prior rights, reduction of withdrawals or mitigation may be necessary. SDCL 46-1-5(1), in giving preference to domestic use over appropriative rights does so without regard to 1) whether lowered ground water levels are due to drought, 2) the location of the domestic wells in the aquifer, or 3) the thickness of the water bearing sands and gravel; subject to compliance with minimum requirements for adequate wells as defined by Board Well Construction Standards, Chapter 74:02:04.
3. The well authorized by Permit No. 6122-3 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.
4. SDCL 46-5-6 allows a greater diversion rate if the method of irrigation, time constraints, or type of soils so requires. Therefore, Permit No. 6122-3 authorizes a maximum diversion rate of 0.33 cfs for the irrigation of 12 acres of turf with an annual volume not to exceed 3 acre-feet of water per acre per year.
5. This Permit is approved subject to the irrigation water use questionnaire being submitted each year.

WATER MANAGEMENT BOARD

By: 
John Hatch, Chief Engineer
Water Rights Program
Department of Environment and Natural Resources

MAR 12 1999

date



Mail to:
Water Rights Program
Joe Foss Building
523 E. Capitol
Pierre, SD 57501-3181
(605) 773-3352

No. 6122-3 (office use only)
Hydrologic Unit 10170202
Basin Sioux River
Newspaper Public Opinion, Watertown, SD



Application For Permit To Appropriate Water For Irrigation

Type of Application: X New Vested Right Amendment/Correction to Permit No.
(Use predates Mar 2, 1955)
Description of amendment/correction: (i.e. change diversion point(s), add diversion point(s), change use, etc.)

- Name of Applicant City of Watertown - Parks & Rec Dept. Phone (605) 882-6260
(check one) X Owner Tenant/lessee
Mailing Address PO Box 910, Watertown State SD 57201
(Street, RR, or Box and City) (Zip Code)
- Amount of water claimed 0.33 *CFS or 150 **GPM ***AF Total Acreage 12 ac.
(*Cubic Feet per Second) (**Gallons per Minute) (**Acre Feet - storage capacity of dam/dugout or annual use if applicable)
- Source of water supply well
- Location of point of diversion (example - 3 wells in SW1/4 NE1/4 section 12-T104N-R53W)
one well in SW 1/4 of the NW 1/4 of Sect. 36-117-53
County Codington
- County or counties where water will be used Codington
- Annual period during which water is to be used April thru October annually 31
- List below each forty acre division, or lot, or fraction thereof and show number of acres to be irrigated in each.
(Attach sheet if more space is needed)

Land Description	Acres	Land Description	Acres
SW 1/4 of NW 1/4 Sect. 36-117-53	12		

- Give a description of the project. (Attach sheet if more space is needed)
Well to irrigate 12 ac. (7 fields) of turf for Softball/Baseball Complex. Currently 4 fields irrigated on city water with 3 new fields to be irrigated in 1999.

STATE OF SOUTH DAKOTA)
County of Codington SS

Attachments: Attach Form 2A if diversion is from a well or dugout, or if storage of water is proposed. Attach map and any other technical information. (see instructions)

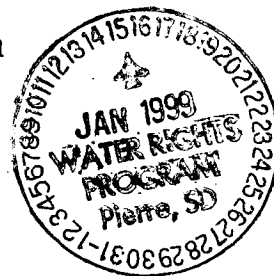
I, Roger Adams, D.R., the applicant, certify that I have read this application, have examined the attached map and that the matters stated are true and that I intend, and am able to complete the necessary construction.

Applicant's signature Roger Adams, Dir. Parks & Rec.
Subscribed and sworn to before me this 5 day of Jan 19 99

Notary Public signature

Supplemental Information

(type or print in ink)



1. Well Information - Proposed Construction

- a) Drill Hole Diameter 18" Depth 48'
- b) Casing Type PVC Diameter 12" Thickness 1/2"
- c) Screen Type Stainless Diameter 12" Thickness
- d) Gravel Pack 1/4" x 3/8" Length of Gravel Pack 22'
- e) Depth to Top of Water Bearing Material 20'
- f) Depth to Water (ground surface to water level) 20'
- g) Distance to nearest existing domestic well:

On applicants property 0 On property owned by others 2 blks.

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

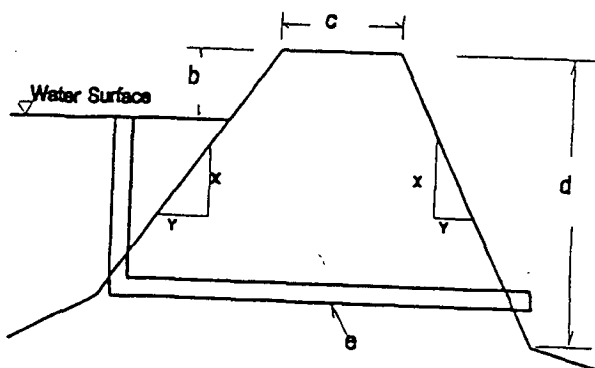
3. Dugout Information

- 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
Upstream
Downstream
- h) Surface Area of Impoundment
- i) Storage Acre Feet
- j) Drainage Area Above Dam Acres



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3181
www.state.sd.us/denr

January 15, 1999

Roger Adams
Parks & Recreation Dept.
City of Watertown
PO Box 910
Watertown SD 57201

Dear Mr. Adams:

Thank you for submitting the *Application for a Permit to Appropriate Water for Irrigation* of the softball/baseball complex. In order to complete the application the following is required.

We are in receipt of the \$150 application filing fee. In addition to the application filing fee, the Water Rights Program now collects the \$50 licensing fee at the time of filing. Please submit \$50 for the licensing of the water permit.

If you have any questions, please contact me.

Sincerely,

Karen Schlaak
Water Rights Program
605 773-3352

RECEIPT

Water Rights Program

South Dakota Department of Environment and Natural Resources

N^o 416015

Pierre, _____ January 21, 19 99

RECEIVED OF City of Watertown, P.O. Box 910, Watertown, SD 57201
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. 6122-3

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

John H. Hatcher

RECEIPT

Water Rights Program

South Dakota Department of Environment and Natural Resources

N2 416010

Pierre, January 15, 19 99

RECEIVED OF City of Watertown, P.O. Box 910, Watertown, SD 57201
the following amount in fees for services rendered as provided for by law:

Fee for Application for Permit No. <u>6122-3</u> to Appropriate Water, to construct 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 _____		

(Any Other Work Provided by Law)	Total	150 00

By _____
Chief Engineer

John Hatch

City of Watertown

23

24

19

Aug 81

20

21

26

25

30

29

28

35

36

31

32

33

2

1

6

5

4

David Releen
City Engineer
11/5/99

6122-3

BULLIS BROTHERS

LeRoy Bullis
1201 Karen Street
886-4044

Well Boring
Trenching
Water and Sewer System
1201 Karen Street
Watertown, South Dakota 57201

Duane Bullis
1120 North Broadway
886-6746

Drilling Log

Date Aug 20 19 92

Name Watertown City
Address Park's Dept.
City & State Watertown S.D.
County Cod.
21st St + 2nd Ave. 800ft East
S.W.
1/4 Sec Twp Rg
Soft Bell Complex

Formation	From	To
(Test Hole)		
Top Soil	0	1/2
Sandy yellow Clay	1/2	3
yellow Sand - med	3	16
Course yellow + Gray		
Sand	16	38
Clay lenses (27 1/2)	(33)	(35)
Course Gray Sand	38	44 1/2
Blue Clay	44 1/2	50
Note: Sand 2 little finer from 35' to 40'		
Static Water level		
20 ft		
License # 4		
Le Roy Bullis		

Casing		
Length	Diam.	Type
Screen		
Length	Diam.	Slot & Type
Completed depth		
Comments <u>Backfilled</u>		
<u>w/ cuttings,</u>		
<u>Clay + Sand</u>		



SOUTH DAKOTA WATER WELL COMPLETION REPORT

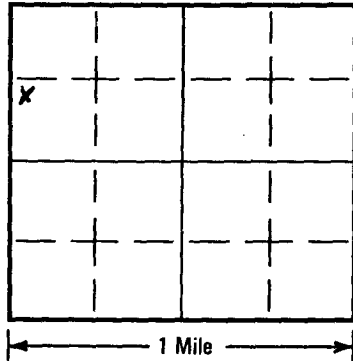
6122-3
07-92

Location SW 1/4 NW 1/4 Sec 36 Twp 117N Rg 53W
County Cod

Please mark well location with an "X"

21st St +
2nd Ave S.W.
800 5th E 25th
Well Completion Date

6-16-99



LOCATION:

Distance from nearest potential pollution source (septic tank, abandoned well, feed lot, etc.)? None ft. from None (identify source).

PROPOSED USE:

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

METHOD OF DRILLING:

Boring Rig

CASING DATA:

☐ Steel ☒ Plastic ☐ Other

If other describe _____

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
<u>Sch 40 LB/FT</u>	<u>12 IN</u>	<u>0 FT</u>	<u>41 FT</u>	<u>20 IN</u>
<u>Sch 40 LB/FT</u>	<u>12 IN</u>	<u>46 FT</u>	<u>48 FT</u>	<u>20 IN</u>
_____ LB/FT	_____ IN	_____ FT	_____ FT	_____ IN

GROUTING DATA

Grout Type Cement No. of Sacks 28 Grout Weight _____ lb./gal From 0 ft. To 18 ft.
_____ lb./gal _____ ft. _____ ft.

Describe grouting procedure Pressure Grouted
Through Tremie Pipe

SCREEN:

☐ Perforated pipe ☒ Manufactured
Diameter 12 IN Length 5 FEET
Material STainless Steel
Slot Size .040 Set From 41 Feet to 46 Feet
Other information _____

WAS A PACKER OR SEAL USED?

☐ YES ☒ NO

If so, what material? _____

Describe packer(s) and location? _____

DISINFECTION: Was well disinfected upon completion?

☒ YES, How: Heavy

☐ NO, Why Not? Chlorinating

Laboratory sent to for water quality analysis

Owner Took
Water Samples

Used during Drilling
+ Gravel Packing

Well Owner: WaterTown Parks + Rec Dept
Business Name: _____
Address: 125 S. Broadway
WaterTown, S.D. 57201

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
<u>Top Soil</u>	<u>0</u>	<u>1/2</u>
<u>Course yellow sand</u>		
<u>w/ Gravel</u>	<u>1/2</u>	<u>10</u>
<u>Course yellow + Grzy</u>		
<u>Sand w/ Gravel</u>	<u>10</u>	<u>27</u>
<u>Course yellow + Grzy</u>		
<u>Grzy w/ sand. Thin</u>		
<u>Clay lenses</u>	<u>27</u>	<u>40</u>
<u>Course Grzy Sand + Gravel</u>	<u>40</u>	<u>46</u>
<u>Blue Clay (Firm)</u>	<u>46</u>	<u>48</u>

STATIC WATER LEVEL

21

Feet

If flowing: closed in pressure _____ PSI

GPM flow _____ through _____ inch pipe

Controlled by ☐ Valve ☐ Reducers ☐ Other _____

Reduced Flowrate _____ GPM

Can well be completely shut in? _____

WELL TEST DATA:

☒ Pumped

Describe: _____

☐ Bailed

☐ Other

Pumping Level Below Land Surface

25' 10" ft. After 16 Hrs. pumped 215 GPM

_____ ft. After _____ Hrs. pumped _____ GPM

If pump installed, pump rate 86 GPM

REMARKS

This well was drilled under license # 4

And this report is true and accurate.

Drilling firm Bullis Bros

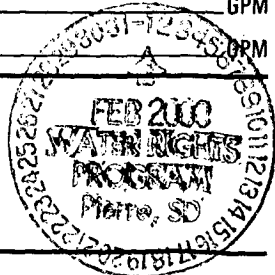
Signature of License Representative:

Se Guy Bullis

Signature of Well Owner or Equitable Property Holder:

Terry Ferguson

Date: 6/16/99





**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3181
www.state.sd.us/denr

February 8, 1999

Harlan Hoy, Superintendent
Municipal Utilities Department
901 Fourth Avenue SW
Watertown SD 57201-4107

Dear Mr. Hoy:

I am enclosing a copy of the report, recommendation and notice of hearing on Water Permit Application No. 6122-3 filed by the Watertown Parks and Recreation Department. The notice of hearing is scheduled to be published February 12 and 19, 1999, in the Public Opinion. This information is being sent to you based on the Municipal Utilities Department's interest in appropriations of water from the Big Sioux: North Aquifer.

Please feel free to contact me if you have any questions.

Sincerely,

Eric Gronlund
Water Rights Program
(605) 773-3352

enclosures



CITY OF WATERTOWN

23 Second St. NE • P.O. Box 910 • Watertown, South Dakota 57201-0910
FAX 605-882-6218

WATERTOWN
Dakota's Rising Star



February 17, 1999

TO: S.D. DENR
Eric Gronlund

FROM: Roger Adams

RE: Water Permit Application No. 6122-3

Please find attached correspondence from Watertown Municipal Utilities Superintendent Geoff Heig requesting our water permit application #6122-3 be a temporary appropriation.

The Watertown Parks and Recreation Department is acceptable of a temporary appropriation.

Thank you.

Roger Adams, Director

Mayor
605-882-6204

Municipal Airport
605-882-6209

Building & Plumbing
Inspection Dept.
605-882-6201

Mt. Hope Cemetery
605-882-6208

City Attorney
605-882-6200

Engineering Dept.
605-882-6202

Finance Office
605-882-6203

Fire Department
605-886-4733

Library
605-882-6220
FAX 605-882-6221

Park, Rec &
Forestry Dept.
605-882-6260
FAX 605-882-5204

Police Dept.
605-882-6210
FAX 605-882-6216

Public Works Dept.
605-882-6204

Solid Waste Dept.
605-882-6219

Street Dept.
605-882-6207

Watertown
Community
Recreation Center
605-882-6250
FAX 605-882-6254

Waste Water
Treatment Facility
605-882-6243
FAX 605-882-6242

MUNICIPAL UTILITIES DEPARTMENT

901 Fourth Avenue Southwest

WATERTOWN, SOUTH DAKOTA 57201-4107

PHONE (605) 882-6233

FAX (605) 882-6238

February 16, 1999

TO: Roger Adams

FROM: Geoff Heig 

RE: Water Permit Application No. 6122-3

Confirming our phone conversation of today, we are requesting that the above water permit application be amended to be an application for a temporary appropriation under SDCL 46-5-39 (copy attached).

This well is in our future use area where our permits reserve the remaining capability of the Big Sioux North Aquifer. It is also deeper than our #9 well, which has had some lower water levels in dry years.

We would not object to a temporary permit being granted, and the temporary permit procedure would be consistent with other wells that have been developed in the area.

Thank you and please call if you have any questions.

cc: Vince Foley



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3181
www.state.sd.us/denr

February 18, 1999

Roger Adams, Director
Watertown Parks, Recreation and Forestry Department
P. O. Box 910
Watertown SD 57201

Dear Mr. Adams:

Enclosed is a copy of the Chief Engineer's revised recommendation for Water Permit Application No. 6122-3, Watertown Parks & Recreation Department. I am recommending approval of Application No. 6122-3 as a temporary water right permit. This revised recommendation is based on the location of the diversion point being within the boundaries of and subject to the Municipal Utilities Department's development of water reserved by their future use water permit.

It is my understanding that you have consulted with Geoff Heig, Municipal Utilities Department and both of you are in agreement to the application being approved as a temporary water permit.

If you have any question regarding the revised recommendation, please contact Eric Gronlund of my staff at (605) 773-3352

Very truly yours,

John Hatch, Chief Engineer
Water Rights Program
(605) 773-3352

enclosure

c: Geoff Heig, Municipal Utilities Dept., 901 Fourth Ave. SW, Watertown SD 57201-4107

MUNICIPAL UTILITIES DEPARTMENT

901 Fourth Avenue Southwest
WATERTOWN, SOUTH DAKOTA 57201-4107
PHONE (605) 882-6233 • FAX (605) 882-6238



February 23, 1999

Mr. John Hatch, Chief Engineer
Water Rights Program
Department of Environment
and Natural Resources
Joe Foss Building
523 East Capitol
Pierre, SD 57501-3181

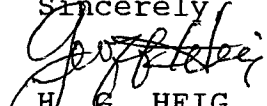
RE: Water Permit Application No. 6122-3

Dear John:

This letter is to confirm that the Watertown Municipal Utilities Department is in agreement with the above application being approved as a temporary water permit, as outlined in your revised recommendation dated February 18, 1999.

If you should have any questions or require anything further in this regard, please let us know.

Thank you.

Sincerely,

H. G. HEIG
Supt. of Utilities

HGH:jap

Encl.

cc: Roger Adams

REPORT ON WATER PERMIT APPLICATION NO. 6122-3
for the City of Watertown
February 2, 1999

Application No. 6122-3 proposes to appropriate 0.333 cfs (150 gpm) from one well approximately 48 feet deep located in the SW 1/4 NW 1/4 of Section 36 to irrigate 12 acres at the softball/baseball complex located in the SW 1/4 NW 1/4 of Section 36; all in T117N-R53W in Codington County.

AQUIFER - BIG SIOUX NORTH (BS-N)

The Big Sioux North is a surficial outwash (sand and gravel) which is under water table conditions in this area. The aquifer underlies 150 square miles and contains an estimated 350,000 acre feet of water in storage in Codington and Grant Counties (Hansen, 1990). The aquifer is hydraulically connected to the Big Sioux River, Lake Kampeska and Lake Pelican in this area (Putnam, 1996). Ground water movement is from northwest to southeast across the area where this application is located.

Test well information filed with the application indicates sand from 3 feet to 44.5 feet in depth with a static water level about 20 feet below land surface. This test well was drilled in 1992 when the water levels were lower than present levels would be. It is not unusual to have 8-10 feet of fluctuation between low and high water levels for the Big Sioux aquifer.

The Water Rights Program does monitor two observation wells, CD-59A and CD-60C, which are located within two miles of this application. Hydrographs for these two wells are included with this report. In general, the water level record indicates that the aquifer is capable of sustaining additional withdrawals (Water Rights, 1999).

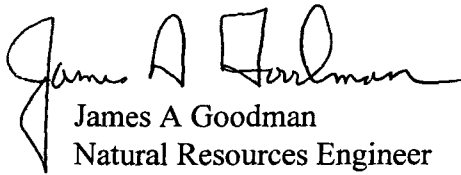
REVIEW OF EXISTING WATER PERMITS/RIGHTS

There is an existing water permit No. 6043-3 located about 1350 feet south of this application. The well for this application is also located about 2300 feet southwest of Watertown City Well #9. Interference is not a concern. The water supply may become limited by severe drought thus affecting pumping capacity but this can be managed by the City of Watertown to minimize any problems. This application is also located within the Future Use for the City of Watertown and this withdrawal is subject to the future use.

CONCLUSIONS

1. Water is available from the Big Sioux North aquifer.
2. The aquifer is under water table conditions and drawdown created by pumping is not expected to be significant. Interference is not a concern. However, the water supply can be affected by drought. Water levels will naturally fluctuate 8-10 feet because of drought and this may affect the pumping rates.

3. The well authorized by this application must be constructed in accordance with SD Well Construction Standards.
4. This application is located within the boundaries of the future use area for the City of Watertown and this application will be subject to Watertown's prior rights. Water Permit No. 6043-3 was issued as a temporary permit pursuant to SDCL 46-5-39. This application does not indicate that this appropriation comes from future use.
5. The diversion rate requested exceeds the rule of one cfs per 70 acres. For irrigation of 12 acres the diversion rate would be 0.17 cfs instead of the requested 0.333 cfs. No documentation was provided with the application concerning why this rate needs to be higher but typically for turf areas this would be reasonable. Also, typically the total volume of diversion would exceed two acre feet per acre. This permit can be issued for 0.333 cfs diversion rate and annually three acre feet per acre for volume.



James A Goodman
Natural Resources Engineer

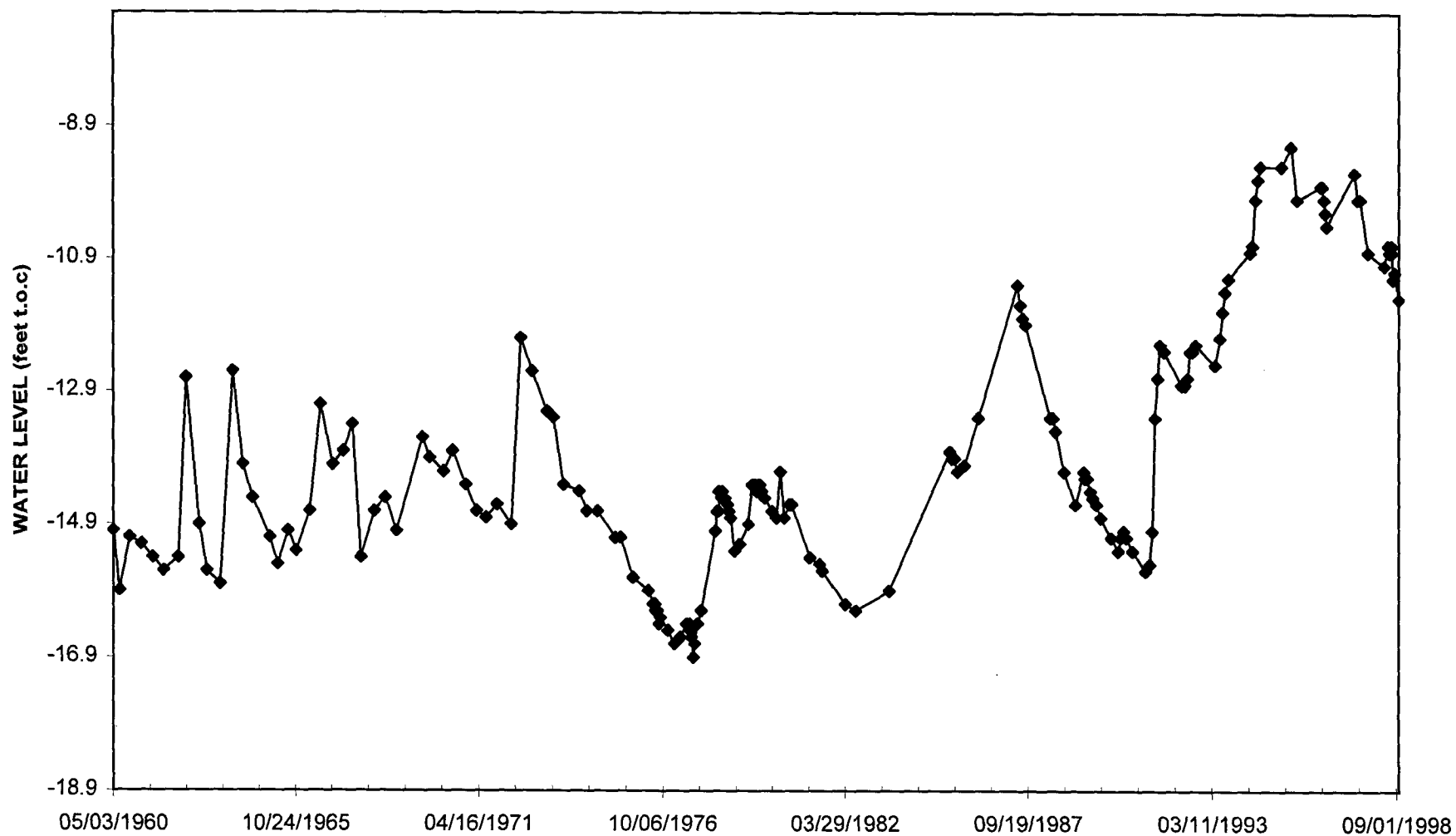
BIBLIOGRAPHY

Hansen, D.S., 1990, Water Resources of Codington and Grant Counties, South Dakota, WRI 89-4147, USGS, Huron, SD, 57350.

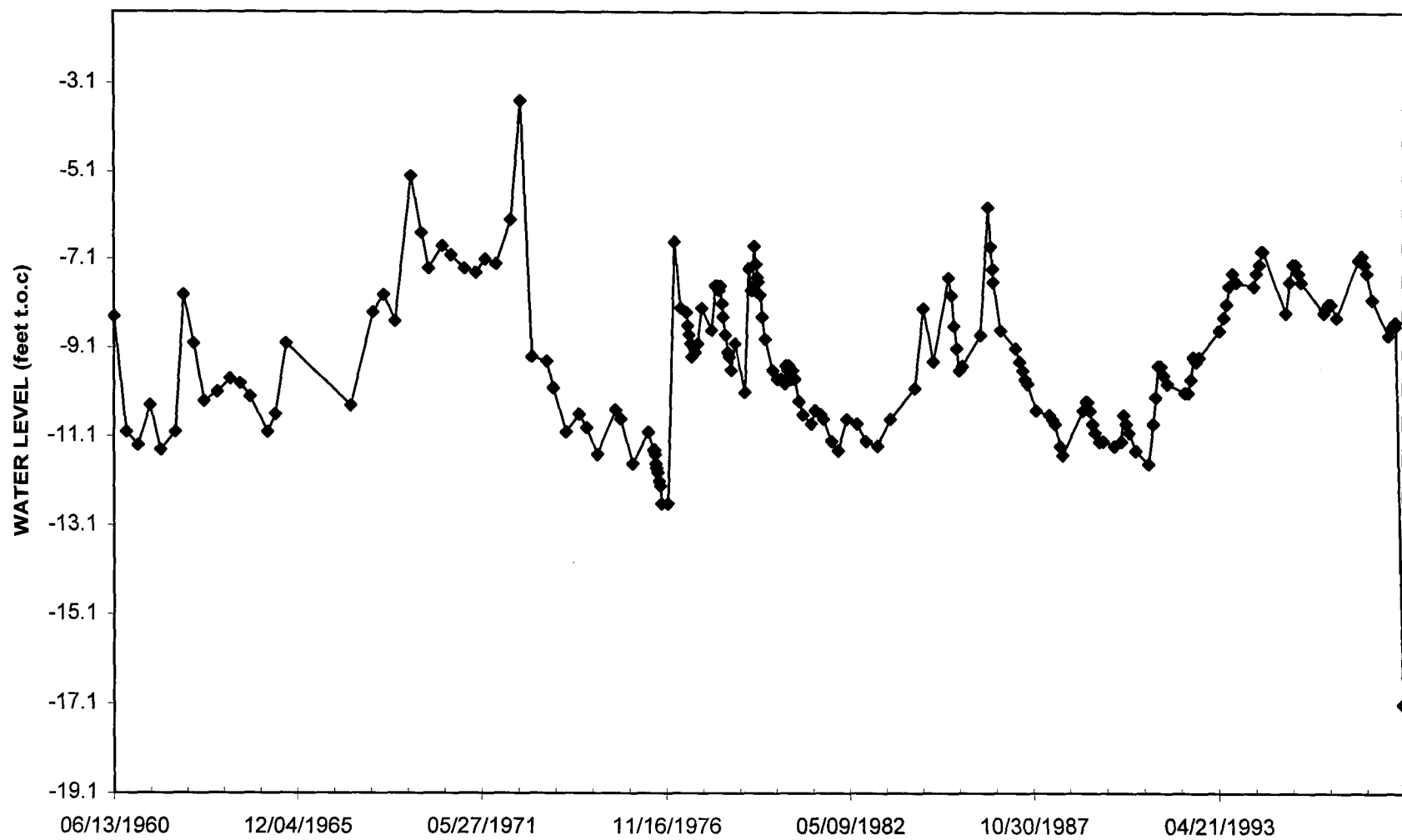
Putnam, L.D., R.C. Thompson, 1996, Appraisal of the Water Resources of the Big Sioux Aquifer, Codington and Grant Counties, South Dakota, WRI 96-4275, USGS, Rapid City, SD, 57702.

Water Rights, 1999, Unpublished Observation Well Data for the Big Sioux North Aquifer, SD DENR, Division of Environmental Services, Water Rights Program, Pierre, SD, 57501.

WATER RIGHTS' OBSERVATION WELL
CD-59A



**WATER RIGHTS' OBSERVATION WELL
CD-60C**



**RECOMMENDATION OF CHIEF ENGINEER FOR WATER PERMIT
APPLICATION NO. 6122-3, City of Watertown – Parks & Recreation Department**

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. 6122-3, City of Watertown – Parks & Recreation Department, c/o Roger Adams, Director, PO Box 910, Watertown SD 57201.

The Chief Engineer is recommending APPROVAL of Application No. 6122-3 because 1) there is reasonable probability that there is unappropriated water available for the applicant's proposed use, 2) the proposed diversion can be developed without unlawful impairment of existing rights, 3) the proposed use is a beneficial use and 4) it is in the public interest with the following qualifications:

1. The well approved under this Permit will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner under this Permit shall control his withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.
2. The well authorized by Permit No. 6122-3 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.
3. SDCL 46-5-6 allows a greater diversion rate if the method of irrigation, time constraints, or type of soils so requires. Therefore, Permit No. 6122-3 authorizes a maximum diversion rate of 0.33 cfs for the irrigation of 12 acres of turf with an annual volume not to exceed 3 acre-feet of water per acre per year.
4. The Watertown Municipal Utilities Department has a priority right to this water under future use withdrawal permits, and this permit is approved subject to their prior rights if or when the Municipal Utilities Department develops the reserved water supply.
5. This Permit is approved subject to the irrigation water use questionnaire being submitted each year.

See report on application for additional information.


JOHN HATCH, Chief Engineer
February 4, 1999

**CHIEF ENGINEER'S REVISED RECOMMENDATION FOR WATER PERMIT
APPLICATION NO. 6122-3, City of Watertown – Parks & Recreation Department**

Pursuant to SDCL 46-2A-2, the following is the revised recommendation of the Chief Engineer, Water Rights Program, Department of Environment and Natural Resources concerning Water Permit Application No. 6122-3, City of Watertown – Parks & Recreation Department, c/o Roger Adams, Director, PO Box 910, Watertown SD 57201.

The Chief Engineer is recommending APPROVAL of Application No. 6122-3 as a TEMPORARY PERMIT pursuant to SDCL 46-5-39 because 1) water is available to be appropriated as a temporary permit until the Watertown Municipal Utilities Department develops water reserved from this future area; 2) the proposed diversion can be developed as a temporary permit without unlawful impairment of existing rights, 3) the proposed use is a beneficial use and 4) in the public interest with the following qualifications:

1. The Watertown Municipal Utilities Department has priority rights to this water under future use withdrawal permits. This permit is issued as a temporary permit pursuant to SDCL 46-5-39 and is subject to Watertown Municipal Utilities Department's prior rights if or when the city develops the reserved water supply. The permit may be subject to cancellation when the city puts to beneficial use water reserved by the future use permits. The Chief Engineer must provide the permit holder six months notice prior to cancellation of this temporary permit
2. If development and pumping water from the North Management Unit of the Big Sioux Aquifer which is appropriated by this temporary permit results in adverse impairment of adequate domestic wells or adequate wells having prior rights, reduction of withdrawals or mitigation may be necessary. SDCL 46-1-5(1), in giving preference to domestic use over appropriative rights does so without regard to 1) whether lowered ground water levels are due to drought, 2) the location of the domestic wells in the aquifer, or 3) the thickness of the water bearing sands and gravel; subject to compliance with minimum requirements for adequate wells as defined by Board Well Construction Standards, Chapter 74:02:04.
3. The well authorized by Permit No. 6122-3 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.
4. SDCL 46-5-6 allows a greater diversion rate if the method of irrigation, time constraints, or type of soils so requires. Therefore, Permit No. 6122-3 authorizes a maximum diversion rate of 0.33 cfs for the irrigation of 12 acres of turf with an annual volume not to exceed 3 acre-feet of water per acre per year.
5. This Permit is approved subject to the irrigation water use questionnaire being submitted each year.

See report on application for additional information.



JOHN HATCH, Chief Engineer
February 18, 1999



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3181
www.state.sd.us/denr

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

February 5, 1999

City of Watertown
Parks and Recreation Department
%Roger Adams, Director
P.O. Box 910
Watertown, SD 57201

Dear Mr. Adams:

Water Permit Application No. 6122-3 for irrigation 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 Public Opinion printed at Watertown, SD (Ph # (605) 886-6901). 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/KS

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.



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3181
www.state.sd.us/denr

February 5, 1999

Public Opinion
P.O. Box 10
Watertown, SD 57201-0010

ATTENTION: Legal Public Notice

Enclosed is a Notice of Hearing on Application No. 6122-3 to Appropriate Water to be published twice. Please publish the first notice on February 12, 1999, 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 the City of Watertown, Parks and Recreation Department, %Roger Adams, Director, P.O. Box 910, Watertown, SD 57201 (Ph # (605) 882-6260).

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

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

Sincerely,

Eric Gronlund /kes
Eric Gronlund
Natural Resources Engineer
605 773-3352

enclosures

-----CU T HERE-----

No. 6122-3

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

Date _____

We are in receipt of your letter of February 5, 1999, enclosing Notice of Hearing to Appropriate Water by Application No. 6122-3 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 February 12, 1999, with the second publication 7 days later. The applicant is responsible for payment.

NOTICE OF APPLICATION NO. 6122-3 to Appropriate Water

Notice is given that the City of Watertown, Parks and Recreation Department, PO Box 910, Watertown SD 57201 has filed an application for a water permit to appropriate 0.333 cubic feet of water per second (150 gallons per minute) from one well (Big Sioux North Aquifer) 48 feet deep located in the SW ¼ NW ¼ Section 36 to irrigate 12 acres at the softball/baseball complex located in the SW ¼ NW ¼ Section 36; all in T117N-R53W.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 6122-3 because 1) unappropriated water is available, 2) existing rights will not be unlawfully impaired, 3) it is a beneficial use of water, and 4) it is in the public interest. In accordance with SDCL 46-2A-23, the Chief Engineer will act on the application, as recommended, unless a petition is filed opposing the application or the applicant files a petition contesting the Chief Engineer's recommendation. If a petition opposing the application or contesting the recommendation is filed, then a hearing will be scheduled and the Water Management Board will consider the application. Notice of the hearing will be given to the applicant and any person filing a petition.

Any person interested in opposing or supporting this application or recommendation must file a written petition with BOTH the applicant and Chief Engineer. The applicant must file a petition if contesting the Chief Engineer's recommendation. The Chief Engineer's address is "Water Rights Program, Foss Building, 523 E Capitol, Pierre SD 57501 (605 773-3352)" and the applicant's mailing address is given above. A petition filed by either an interested person or the applicant must be filed by March 1, 1999.

The petition may be informal, but must include a statement describing the petitioner's interest in the application, the petitioner's reasons for opposing or supporting the application, and the signature and mailing address of the petitioner or the petitioner's legal counsel, if legal counsel is obtained. Contact Eric Gronlund at the above Water Rights Program address to request copies of information pertaining to this application. Nettie H. Myers, Secretary, Department of Environment and Natural Resources.

Form 8



PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)
) SS
County of Codington)

I, Monica K. Saathoff

certify that the attached printed Notice was
taken

from the Watertown Public Opinion

printed and published in Watertown

County of Codington and

state of South Dakota. The notice was published

in the newspaper on the following two dates:

Feb. 12th, 1999

Feb. 19th, 1999

Cost of Printing 75.16

Monica Saathoff
(Signature)

Bookkeeper

(Title)

2-12-99

(Date Signed)

PIERRE

NOTICE OF APPLICATION NO. 6122-3 TO APPROPRIATE WATER

Notice is given that the City of Watertown Parks & Recreation Department, P.O. Box 910, Watertown, SD 57201 has filed an application for a water permit to appropriate 0.333 cubic feet of water per second (150 gallons per minute) from one well (Big Sioux North Aquifer) 48 feet deep located in the SW 1/4 NW 1/4 Section 36 to irrigate 12 acres at the softball/baseball complex located in the SW 1/4 NW 1/4 Section 36; all in T117N-R53W.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 6122-3 because 1) unappropriated water is available, 2) existing rights will not be unlawfully impaired, 3) it is a beneficial use of water, and 4) it is in the public interest. In accordance with SDCL 46-2A-23, the Chief Engineer will act on the application, as recommended, unless a petition is filed opposing the application or the applicant files a petition contesting the Chief Engineer's recommendation. If a petition opposing the application or contesting the recommendation is filed, then a hearing will be scheduled and the Water Management Board will consider the application. Notice of the hearing will be given to the applicant and any person filing a petition.

Any person interested in opposing or supporting this application or recommendation must file a written petition with BOTH the applicant and Chief Engineer. The applicant must file a petition if contesting the Chief Engineer's recommendation. The Chief Engineer's address is "Water Rights Program, Foss Building, 523 E. Capitol, Pierre, SD 57501 (605-773-3352)" and the applicant's mailing address is given above. A petition filed by either an interested person or the applicant must be filed by March 1, 1999.

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 counsel is obtained. Contact Eric Gronlund at the above Water Rights Program address to request copies of information pertaining to this application.
Nettie H. Myers, Secretary
Department of Environment & Natural Resources
(February 12, 19, 1999)



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3181
www.state.sd.us/denr

MAR 12 1999

City of Watertown
Parks and Recreation Department
%Roger Adams, Director
P.O. Box 910
Watertown, SD 57201

Dear Mr. Adams:

Enclosed is Temporary Water Permit No. 6122-3 authorizing construction of your water diversion system and beneficial use of the water, not exceeding the limits as specified in the Water Permit.

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

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

Very truly yours,

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

enclosures

NOTICE OF COMPLETION OF WORKS AND APPLICATION OF WATER TO BENEFICIAL USE

Date 8-27-99

TO: Water Rights Program, DENR
523 E. Capitol
Pierre, SD 57501-3181

FROM: Watertown Park & Rec Dept.
(name)
P.O. Box 910
(address)
Wtn., S.D. 57201 (605) 882-6260
(city, state, zip) (phone)

I have completed the construction of the water use system and I have put the water to beneficial use to the maximum extent it is going to be used.

Water Permit No. 6/22-3 states that the water use system is to be constructed by
3-1-2004, and water is to be put to beneficial use by 3-1-2008
(date) (date)

The water use system was completed on 8-24-99
(date)

Applying the water to beneficial use was completed on 8-24-99
(date)

You may schedule an investigation so that the water license may be issued.

Roger Adams, Dir. Park & Rec.
(signature)
City of Watertown





CITY OF WATERTOWN

23 Second St. NE • P.O. Box 910 • Watertown, South Dakota 57201-0910
FAX 605-882-5214 • Website: www.watertownsd.com

WATERTOWN
South Dakota's Rising Star

Mayor
605-882-6204

Municipal Airport
605-882-6209

Building & Plumbing
Inspection Dept.
605-882-6201

Mt. Hope Cemetery
605-882-6208

City Attorney
605-882-6200

Engineering Dept.
605-882-6202

Finance Office
605-882-6203
FAX 605-882-6218

Fire Department
605-886-4733
FAX 605-886-0795

Library
605-882-6220
FAX 605-882-6221

Park, Rec &
Forestry Dept.
605-882-6260
FAX 605-882-5204

Police Dept.
605-882-6210
FAX 605-882-6216

Public Works Dept.
605-882-6204

Solid Waste Dept.
605-882-6219

Street Dept.
605-882-6207

Watertown
Community
Recreation Center
605-882-6250
FAX 605-882-6254

Waste Water
Treatment Facility
605-882-6243
FAX 605-882-6242

7-2-02

Irrigation under permits 6122-3 +
6103-3 have been developed to maximum
extent + can be scheduled for inspection.

Roger Adams, Dir.
Wm. Park + Rec. Dept.

Permit No. 6122-3
Big Sioux River - Water District

Contact Person & Address: Roger Adams, City of Watertown Parks & Rec Dept. PO Box 910, Watertown SD 57201

Report Of Examination Of Works

On, July 2, 2002, I made a thorough examination of the water use system constructed by the City Of Watertown Parks & Rec Dept of PO Box 910, Watertown SD 57201 holder of Temporary Permit No. 6122-3, bearing the priority of January 15, 1999 authorizing the diversion of 0.33 cu. ft. per second of the waters of ground water (Big Sioux North) for irrigation purposes, in Codington County.

The system is in the following condition good. The point of diversion is located from the NW corner of Sec 36 T117N-R53W; 1720 ft S and 910 ft E with a longitude of -97.14357 and a latitude of 44.90008 as determined using GPS. The works are capable of diverting and conveying to the place of use 0.33 cu. ft. per second of water which is to be used for irrigation. Water has been put to beneficial use to the maximum extent as follows:

All land is located in Sec 36 T117N-R53W: SW ¼ NW ¼ - 12 ac comprising a total of 12 acres of land and the license should be issued for 0.33 cfs.

Review of Permit Qualifications And Regulations:

- 1) Special qualifications to permit being abided by yes
- 2) All structures, wells and lands on map yes
- 3) Irrigation Questionnaires checked to determine if permit owner started irrigation by the end of construction period yes.
- 4) Exceptions to compliance are: none

Report On the Specifics of the System

Diversion Point Information:

Well Information:

- | | |
|---|-------------------------------------|
| 1) Well Drilling Firm: <u>Bullis Brothers</u> | 2) No. of Wells <u>1</u> |
| 3) Depth(s) <u>48</u> feet | 4) Well log is available <u>yes</u> |

Casing:

- | | |
|------------------------------|--------------------------|
| 1) Diameter <u>12</u> inches | 2) Length <u>41</u> feet |
| 3) Type <u>PVC</u> | |

Screen:

- | | |
|--------------------------------------|-------------------------|
| 1) Type <u>stainless steel</u> | 2) Length <u>5</u> feet |
| 3) Static water level <u>26</u> feet | |

Pump:

- 1) Make Grundfos
- 2) Model submersible
- 3) Size 4 inch
- 4) Capacity 150 GPM

Motor:

- 1) Make Grundfos
- 2) Model No. submersible
- 3) Horsepower rating ? hp

DISTRIBUTION LINES OR CANALS:

- 1) Type pvc
- 2) Size 1 inches
- 3) Length ? feet

SYSTEM TYPE:

Popup sprinklers

- 1) Brand Rainbird

CHEMIGATION EQUIPMENT:

- 1) Does chemigate No

11) **Comments :** none



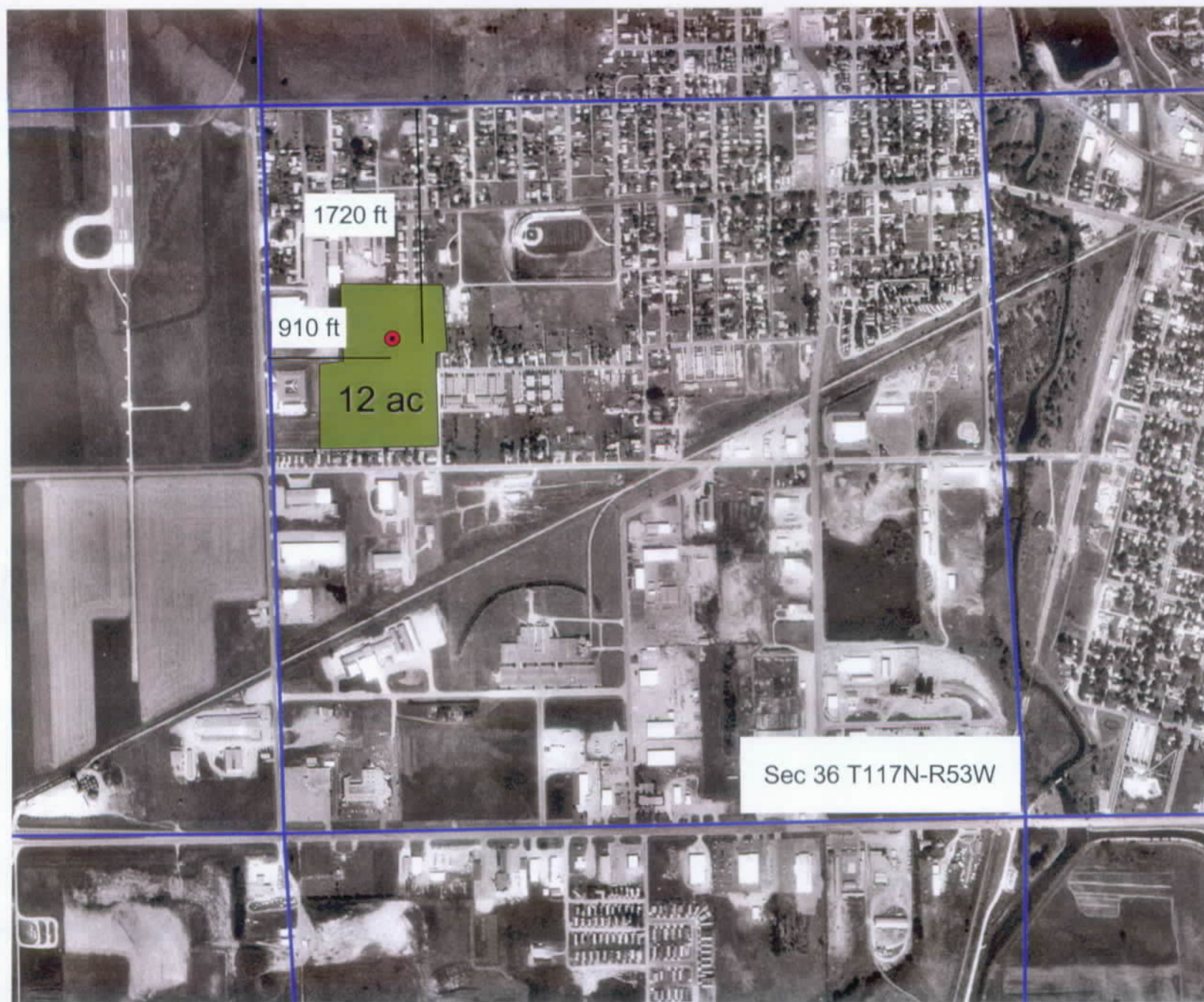
Mark D. Rath

Natural Resources Engineering Specialist
DENR, Water Rights Program

8-12-02

Date

No. 6122-3



South Dakota

South Dakota Department of
Environment and Natural Resources



Protecting South Dakota's Tomorrow... Today

0.5 0 0.5 1 Miles

Mark D. Rath

Mark D. Rath
Natural Resources Engineering Specialist
SD DENR

7-30-02



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

MAR 12 2003

6103-3 & 6122-3

City of Watertown
c/o Roger Adams
PO Box 910
Watertown SD 57201

Dear Mr. Adams:

Enclosed is Water License No. 6103-3 and Temporary Use Water Permit No. 6122-3. Water License No. 6103-3 is the final water right document completing the process of obtaining a Water Right.

For your information SDCL 46-6-27 requires that if the owner of an existing well, such as the well authorized by Nos. 6103-3 & 6122-3, 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 the city uses the water beneficially, as stated in the Water License, State Water Laws provide that the city has a continuing right to use the water. The Temporary Use Water Permit is subject to the conditions of that permit. If you have any questions, please contact our office.

Sincerely,

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

enclosures