

(See instructions)

No. 5657-3 Hydrologic Unit 10160011
Basin James River
Newspaper South Dakota Mail-Box 367

942-7770

Plankinton SD 57368

Application For Soil/Water Compatibility Permit and Permit To Appropriate Water

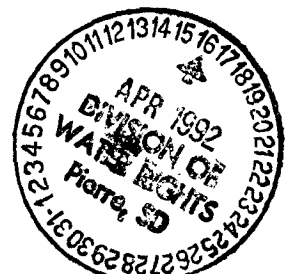
- Type of Application: ☒ New ☐ Vested Right ☐ Amend Permit No. _____
- ☐ Change Acreage ☐ Change diversion point(s) ☐ Add diversion point(s)
- ☐ Add Acreage ☐ Increase diversion rate ☐ Other _____
1. Name of Applicant Fish Lake Country Club Inc. Phone No. 942-7781
- Post Office Address Box 413 Plankinton SD 57368 State South Dakota
(Street, RR or Box) (City) 57368 Zip Code
2. Amount of water claimed (c.f.s.) 0.11 cfs Total acres irrigated 8 acres
3. Source of Water supply Dakota Aquifer
4. Location of point of diversion Enlarge Dugout and New Well to be located
in the SE 1/4 SW 1/4 16T 103N R63W Aurora County
County Aurora
5. Counties where water will be used Aurora
6. Annual period during which water is to be used April, May, June, July, August, September, October 31
7. 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.
<u>SW 1/4 16T103N-R63W</u>	<u>8 acres</u>
<u>E 1/2</u>	

Land Description	No. Acres Irr.

Attach sheet if more space is needed

8. Type of Irrigation: Gravity: _____ Towline: _____ Center Pivot: _____ Gun: _____ Other: Pop-Up Sprinkler (Specify)
9. Crops to be Irrigated: _____
10. Give a description of proposed project. (Attach sheet if more space is needed)
See Attachment A.



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 Aurora)^{ss}

I, Ron Kristensen, President, 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 Ron Kristensen, President

Subscribed and sworn to before me this 14th day of April 1992

CLIFF M. ANDERSON
Notary Public, Aurora County, SD
My Commission Expires May 6, 1996

Cliff M. Anderson
Notary Public

SOUTH DAKOTA
WATER PERMIT No. 5657-3 FOR IRRIGATION

Date of first receipt of application April 16, 1992.

Date Soil/Water Compatibility Permit received May 4, 1992.

Date of return to applicant for corrections, amendments or changes April 17, 1992.

Date of receipt of corrected application April 20, 1992.

The Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 5657-3 to Fish Lake Country Club Inc., Box 413, Plankinton SD 57368 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. 5657-3 appropriates 0.11 cubic feet of water per second (cfs) from one well (Dakota Formation) approximately 800 feet deep located in the SE 1/4 SW 1/4 to irrigate 8 acres located in the E 1/2 SW 1/4; all in Section 16-T103N-R63W. Water Permit Nos. 4530-3 and 4530A-3, combined, appropriate 0.69 cfs from 2 wells (Pleistocene Unknown) 60 feet deep located in the SE 1/4 SW 1/4 to irrigate 48.25 acres located in the E 1/2 SW 1/4; all in Section 16-T103N-R63W. Historically, the total 48.25 acres authorized by these permits has not been irrigated. This permit authorizes diversions from the Dakota Formation well and the two Pleistocene Unknown wells to a dugout (4 acre-feet storage capacity) located in the SE 1/4 SW 1/4 Section 16-T103N-R63W. The dugout will also receive incidental surface water runoff. This water will then be pumped from the dugout for irrigation of the 8 acres of greens, tee boxes and fairway landings. Diversions from the dugout may not exceed 1 cfs for each 70 acres irrigated.
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 April 16, 1992.
4. The date of approval of Permit No. 5657-3 is July 8, 1992.
5. One-fifth of the construction is to be completed on or before January 8, 1995.
6. All construction is to be completed on or before July 8, 1997.
7. Water is to be put to beneficial use on or before July 8, 2001.
8. Water rights obtained in compliance with the laws of the State of South Dakota may not be unlawfully impaired by this appropriation.

(continued)

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. 5657-3 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.
3. The well approved under this Permit shall be valved and the flow reduced to the amount needed or to a minimum when not being used. If this well is abandoned or the Permit cancelled, the well must be plugged in accordance with Water Management Board Well Construction Rules, Chapter 74:02:04.
4. This permit is approved subject to the irrigation water use questionnaire being submitted each year.

WATER MANAGEMENT BOARD

By: 
Chief Engineer, Water Rights Division
Department of Environment and Natural Resources

JUL 13 1992
date

Supplemental Information

(type or print in ink)



1. Well Information - Proposed construction

- a) Drill Hole Diameter 7 7/8 Inches Depth Approx. 800 feet
- b) Casing Type PVC Diameter 3" Thickness 2/19"
- c) Screen Type PVC Slotted Diameter 3" Thickness 2/19"
- d) Gravel Pack Thickness 2" Length of Gravel Pack approx 60 feet
- e) Depth to Top of Water Bearing Material 740 feet
- f) Depth to Water (ground surface to water level) approx. 40 feet
- g) Distance to nearest existing domestic well:
 within 50 yards
 On applicants property surface well On property owned by others 1 mile

2. Dugout Information Estimates

- a) Surface Dimensions 148' x 264' Depth 13'
- b) Depth to water (ground surface to water level) No Ground Water-Just Runoff

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 _____

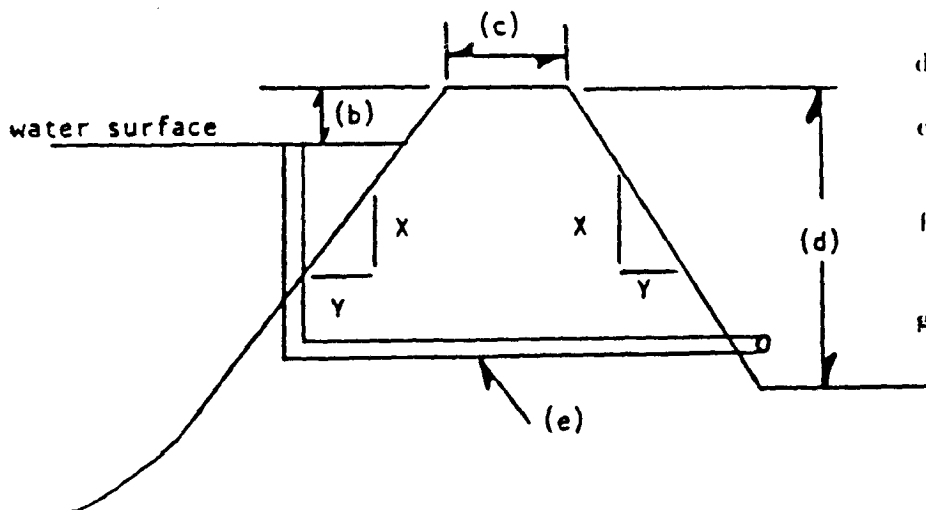
g) X & Y Slope
 Upstream _____

Downstream _____

Surface Area of Impoundment _____

Storage _____ acre feet

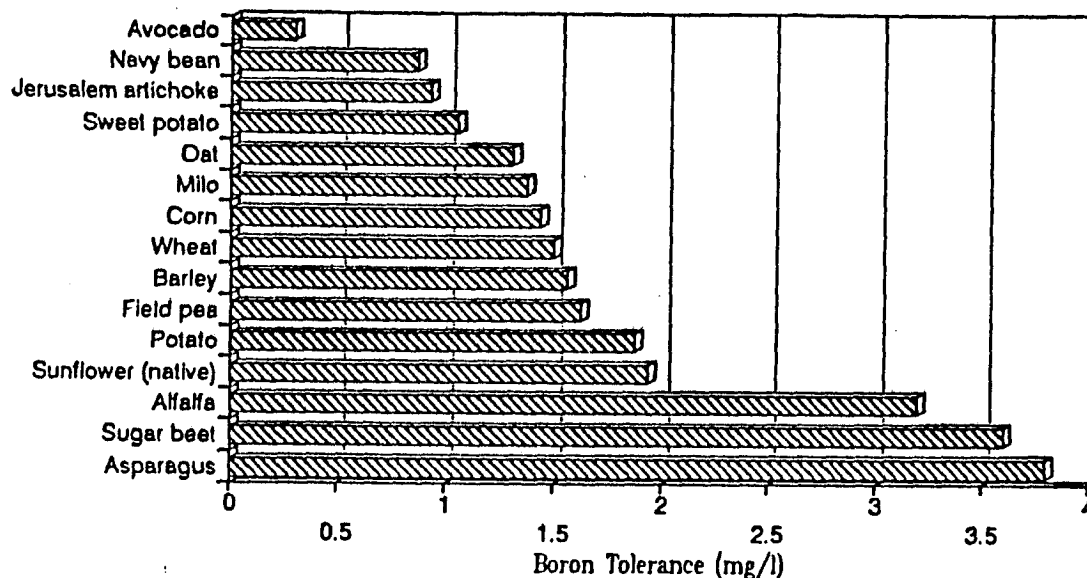
Drainage area above dam _____



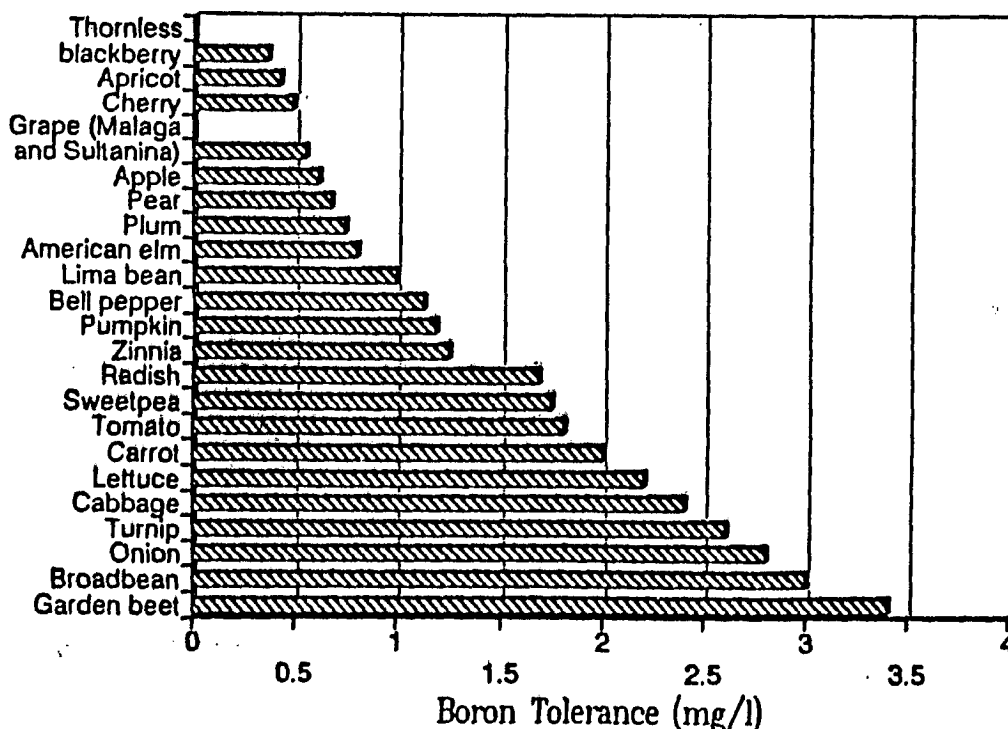
Ron Kristensen, President
 Signature of Applicant

Limits of Boron in Irrigation Water for Crops of Different Degrees of Boron Tolerance.

Field Crops



Other Crops



* The magnitude of the number may vary somewhat within these groups. The rank, however, is correct. (Taken from Trace Elements in the Environment. 1972. Binham, F.T. "Boron in Cultivated Soils and Irrigation Waters".)



REPORT OF ANALYSIS
Water Quality Laboratory
Water Resources Research Institute
South Dakota State University
Brookings, SD 57007

04/06/92

Aurora

Name: Fish Lake Country Club
Address: Box 413
Plankinton, SD 57368

Date Rec'd: APR 01, 1992
Lab Sample No.: 92-0121
Source: WELL
Legal ID: T 103N R 64W S 15 c

WATER ANALYSIS

Calcium (Ca)	318	ppm	15.87	me/l
Magnesium (Mg)	68	ppm	5.59	me/l
Sodium (Na)	191	ppm	8.30	me/l
Potassium (K)	24	ppm	0.61	me/l
Sulfate (SO4)	1142	ppm	23.78	me/l
Nitrate as N (NO3)		ppm		me/l
Organic Nitrogen as N		ppm		
Ammonia Nitrogen as N		ppm		
Nitrite as N (NO2)		ppm		
Ortho Phosphorus		ppm		
Total Phosphorus		ppm		
Chloride (Cl)	90	ppm	2.54	me/l
Bicarbonate (HCO3)	151	ppm	2.48	me/l
Carbonate (CO3)	0	ppm	0.00	me/l
Iron (Fe)		ppm		me/l
Fluoride (F)		ppm		me/l
Manganese (Mn)		ppm		
Boron (B)	1.71	ppm		
Hardness (EDTA as CaCO3)	1073	ppm	62.75	g.p.g.
Total Solids		ppm		
Total Cations			30.38	me/l
Total Anions			28.79	me/l
Alkalinity (Methyl Orange)	124	ppm(as CaCO3)		
Alkalinity (Phenolphthalein)	0	ppm(as CaCO3)		
Electrical Conductivity	2300	micromhos per cm at 25°C		
Sodium Adsorption Ratio	2.54	Adjusted SAR	5.95	
Sodium	27.34	% of Cations		
Residual Sodium Carbonate	0.00	me/l		
pH	7.20			

g.p.g. = grains per gallon
ppm = parts per million
me/l = millequivalents per liter

COMMENTS:

Analysis By: Shirley Mitten

Service Performed:	Total Cost:	\$ 42.00
	Amount Received:	0.00
Irrigation Analysis	Balance Due:	42.00

Make checks payable to: SDSU Water Quality Lab
Please write lab number on your check!
Lab Sample No. 92-0121

FISH LAKE COUNTRY CLUB IRRIGATION PROJECT

Present Situation

The Fish Lake Country Club is a 9 hole grass green golf course located on 40 acres in the SE $\frac{1}{4}$ of the SW $\frac{1}{4}$ of Section 16T 103N R63W Aurora County, South Dakota. The course is South West of Fish Lake (a lakebed that is presently dry).

The course has a 300,000 gallon dugout located in a creek that runs into Fish Lake. This dugout catches fresh water in the times of runoff.

The Club also has 2 60 foot surface wells that pump into this dugout for purposes of irrigating greens and tee boxes. In the past years we have been pumping these wells in the amount of 2,700,000 gallons along with natural runoff to keep the greens and tee boxes growing. The present water system has just enough to get us through the summer. WE are not able to irrigate fairways as the water just is not there.

We have done testing to get more 60' wells to cover our needs and the water is not there.

Proposed Project

Fish Lake Country Club would like to propose this project so we can irrigate the fairways.

The country Club would enlarge the present dugout to 1,000,000 gallons of storage. We would also enlarge the creek area past the dugout to hold 350,000 gallons. This would give us the ability to capture 1,350,000 gallons of runoff in the spring.

We would continue to pump our fresh water wells at the present 2,700,000.

The Fish Lake Country Club would also seek permission to drill a well in the Dakota Aquifer to give us an additional 3,000,000 to 4,000,000 gallons of water per year. This would give us the following supply:

Spring Runoff	1,300,000
60' wells	2,700,000
Dakota	<u>3,500,000</u>
Total	7,500,000

Usage and Management

Fish Lake Country Club would continue to water greens and Tee Boxes that presently take 3,000,000 per year to maintain them.

We would also irrigate landing areas 30 yards wide on the following holes: 1. 25 yards 2. 150 yards 3. 175 yards 4. 200 yards 5. 100 yards 6. 50 yards 7. 160 yards 8. 150 yards 9. 175 yards.

Tom Clemens from our SCS office has given us the following figures for estimated fairway needs:

1185 yards of fairway X 30 yards wide = 7.5 acres of fairway

7.5 acres needs 3,600,000 for 12 inches of yearly water.

(8 inches would be utilized after evaporation)

This would take our needs to 6,600,000 per year to keep greens, tee boxes, and fairway landing areas green.

We would have the dugouts full in the Spring with runoff and mix the water with the present wells and the proposed Dakota well.

MIX: 1,300,000 Runoff 2,700,000 present wells, 3,000,000 Dakota



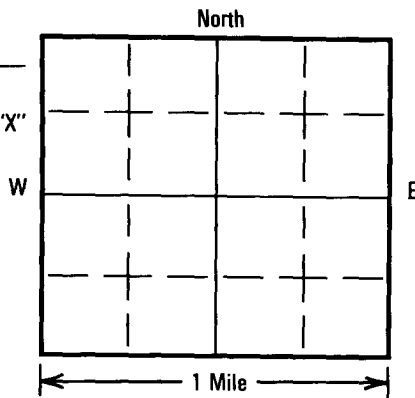
SOUTH DAKOTA WATER WELL COMPLETION REPORT

#5657-3

07-92

Location $\frac{1}{4}$ NW $\frac{1}{4}$ Sec 16 Twp 103 N Rg 63 WCounty Aurora

Please mark well location with an "X"

Well Completion Date 7-30-92

LOCATION:

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

PROPOSED USE:

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

METHOD OF DRILLING:

mud rotary

CASING DATA:

- ☐ Steel ☒ Plastic ☐ Other

If other describe _____

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
<u>PVC 250 LB/FT</u>	<u>5" IN</u>	<u>0 FT</u>	<u>315 FT</u>	<u>7 1/2 IN</u>
<u>Sch. 80</u>	<u>4 IN</u>	<u>300 FT</u>	<u>700 FT</u>	<u>4 1/2 IN</u>
_____ LB/FT	_____ IN	_____ FT	_____ FT	_____ IN

GROUTING DATA

Grout Type	No. of Sacks	Grout Weight	From	To
<u>Cement</u>	<u>27</u>	_____ lb./gal	<u>10 ft</u>	<u>315 ft</u>
<u>Bentonite Chips</u>	_____	_____ lb./gal	<u>0 ft</u>	<u>10 ft</u>

Describe grouting procedure tramie pipe

SCREEN: ☒ Perforated pipe ☐ ManufacturedDiameter 2 IN Length 40 FEETMaterial Schedule 80
Slot Size 3/8" holes Set From 660 Feet to 700 Feet

Other information _____

WAS A PACKER OR SEAL USED? ☒ YES ☐ NOIf so, what material? rubberDescribe packer(s) and location? between 5" & 2" aDISINFECTION: R type packer - andWas well disinfected upon completion? YES, How: _____

another packer X NO, Why Not? pumped
above sand into an open
dam - not for
human consumption

Laboratory sent to for water quality analysis _____

Well Owner Fish Lake Country Club

Business Name: _____

Address: Plankinton, S.D.

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
<u>top soil</u>	<u>0</u>	<u>2</u>
<u>Blue Clay</u>	<u>2</u>	<u>70</u>
<u>Chalk</u>	<u>70</u>	<u>90</u>
<u>Shale</u>	<u>90</u>	<u>220</u>
<u>Coal sandstone</u>	<u>220</u>	<u>312</u>
<u>Shale</u>	<u>312</u>	<u>628</u>
<u>hard rock</u>	<u>628</u>	<u>629</u>
<u>Shale</u>	<u>629</u>	<u>660</u>
<u>Sand - fair -</u>	<u>660</u>	<u>668</u>
<u>Shaley Sandstone</u>	<u>668</u>	<u>698</u>
<u>Very hard rock</u>	<u>698</u>	<u>700</u>

STATIC WATER LEVEL 20 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

- ☐ Bailed

- ☐ Other

Describe: Test pumped
with a submersible
pump

Pumping Level Below Land Surface

60 ft. After 10 Hrs. pumped 50 GPM

_____ ft. After _____ Hrs. pumped _____ GPM

If pump installed, pump rate 50 GPM

REMARKS

This well was drilled under license # 296

And this report is true and accurate.

Drilling firm Chase Drilling

Signature of License Representative: _____

Signature of Well Owner or Equitable Property Holder: _____

Date: 12-5-95



NOT TO SCALE

T2356
152.0

(54R) H-11 T1059
Tom J. Williams
SCS Soil Conservation

T2349

T2081

16

NC

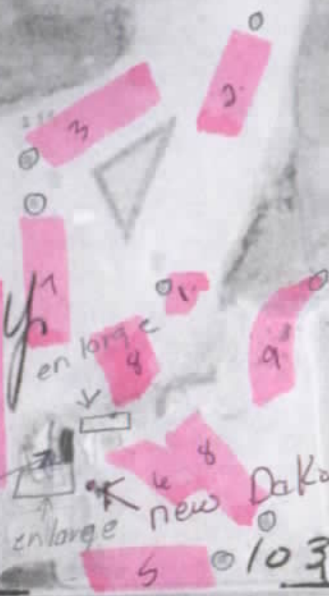
T2387

T2388

33.0

CRP
33.0 Ac.
1989-1998

Present
Dugout



8.9 T1353

15.3 (54R) H-11

4

72.4

8ac

6

32.9

Hole Irrigation Distance

1. 25 yards
2. 150 yards
3. 175 yards
4. 200 yards
5. 100 yards
6. 50 yards
7. 160 yards
8. 150 yards
9. 175 yards

Total fairways irrigated 1185 yards long 30 yards width for 7.5 acres of irrigated fairways.



RECEIPT

Division of Water Rights

South Dakota Department of Water and Natural Resources

413179

Pierre, April 16, 19 92

RECEIVED OF Judy Harris, Fish Lake Country Club Inc, Box 413, Plankinton SD 57368

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

Fee for Application for Permit No. <u>5657-3</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

Chief Engineer

John Hatch / Jmk

Department of Agriculture

WI#1

5/87

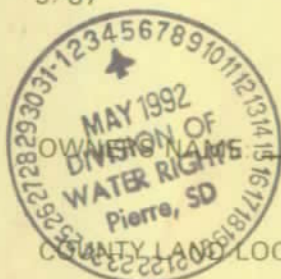
SOIL/WATER COMPATIBILITY PERMIT

Division of Conservation

Office Use Only

4699

WR#



FISH LAKE COUNTRY CLUB, INC.

OWNERS ADDRESS: BOX 413

PLANKINTON, SD 57368

COUNTY LANDS LOCATED IN: AURORA PHONE: 942-7781

LEGAL DESCRIPTION:

1. LOCATION SE $\frac{1}{4}$ SW $\frac{1}{4}$ 16-T103N-R63W☒ Well

(Dugout)

☒ Surface

Depth

Legal Description	Acres	Legal Description	Acres
SE $\frac{1}{4}$ SW $\frac{1}{4}$ 16-T103N-R63W	8		

2. TYPE OF IRRIGATION: GRAVITY _____ TOWLINE _____ CENTER PIVOT _____ GUN _____ OTHER: POP-UP SPRINKLER (Specify)

3. CROPS TO BE IRRIGATED: _____

WATER QUALITY:

4. WATER SAMPLE NUMBER: 80-287 & 92-0121

7. ADJUSTED (SAR): 80-287 & 92-0121 1.85 & 5.95

5. SALINITY (EC X 10⁶): 1008 & 2300

8. PERCENT SODIUM 14.05 & 27.34

6. SODIUM (SAR): 0.75 & 2.54

Requirements:

The Dakota Formation may only be used when mixed at a one-to-one ratio with the other water sources.

The areas containing Dudley soils may require additional management practices, which break up the pan to allow water movement and the leaching of salts.

Director, Division of Conservation

 XXX APPROVED
 _____ DISAPPROVED
 _____ WAIVER

XXX REQUIREMENTS

APRIL 30, 1992

Date

Soil/water permits will be recorded by the Department of Agriculture, with the County Register of Deeds.



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

April 17, 1992

Fish Lake Country Club, Inc.
Ron Kristensen, President
Box 413
Plankinton SD 57368

Dear Mr. Kristensen:

In regard to your water permit application received on April 16, 1991, the following information needs to be clarified in order to process the application.

Water Permit Nos. 4530-3 and 4530A-3 held by the country club, are for irrigation of 48.25 acres located in the E 1/2 SW 1/4 Section 16-T103N-R63W. Is this application to irrigate 8 acres located in the SE 1/4 SW 1/4 in addition to the 48.25 acres authorized by Nos. 4530-3 and 4530A-3? Or is it your intend to irrigate 8 acres only? If your intent is to irrigate 8 acres only, then it would appear from the aerial photo submitted, that the area to be irrigated, should be the E 1/2 SW 1/4 and not just the SE 1/4 SW 1/4. Please let us know your intent.

If only 8 acres will be irrigated, then the amount of water claimed (0.2 cfs) will need to be reduced. State Statutes allow 1 cubic feet of water per second (cfs) for each 70 acres irrigated. This would mean that you are allowed 0.11 cfs for the 8 acres to be irrigated.

⁵⁰⁰
The water permit application can not be considered until the application is complete and a soil/water permit is obtained from the Department of Agriculture. Upon clarification 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

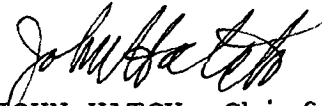
RECOMMENDATION OF CHIEF ENGINEER FOR WATER PERMIT
APPLICATION NO. 5657-3, Fish Lake Country Club

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. 5657-3, Fish Lake Country Club, c/o Ron Kristensen, Box 413, Plankinton, SD 57368.

The Chief Engineer is recommending APPROVAL of Application No. 5657-3 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. 5657-3 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.
3. The well approved under this Permit shall be valved and the flow reduced to the amount needed or to a minimum when not being used. If this well is abandoned or the Permit cancelled, the well must be plugged in accordance with Water Management Board Well Construction Rules, Chapter 74:02:04.
4. 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
June 4, 1992

REPORT ON APPLICATION NO. 5657-3
for Fish Lake Country Club
June 4, 1992

Application No. 5647-3 proposes to appropriate 0.11 cfs (50 gpm) from one well approximately 800 feet deep located in the SE 1/4 SW 1/4 to irrigate 8 acres located in the E 1/2 SW 1/4; all in section 16, T103N R63W in Aurora County. Water Permit Nos. 4530-3 and 4530A-3, combined, appropriate 0.69 cfs from 2 wells approximately 60 feet deep located in the SE 1/4 SW 1/4 to irrigate 48.25 acres located in the E 1/2 SW 1/4; all in section 16, T103N R63W. Historically, the total 48.25 acres authorized by these permits has not been irrigated. This application is to authorize diversions from the proposed Dakota Formation and the two Pliocene unknown wells to a dugout (4 acre feet of storage capacity) located in the SE 1/4 SW 1/4 of section 16, T103N R63W. The dugout will also receive incidental surface water runoff. Water will then be pumped from the dugout for irrigation of the 8 acres of greens, tee boxes and fairway landing areas. Diversion from the dugout may not exceed 1 cfs per 70 acres as allowed by statute.

AQUIFER - DAKOTA FORMATION (DKOT)

The Dakota Formation consists of an interbedded siltstone, sandstone and shale and is approximately 100 to 200 feet thick in this area (Hamilton, 1985). The aquifer underlies 719 square miles and contains an estimated 11.4 million acre feet of recoverable water in storage in Aurora County (Hedges, 1982). The aquifer is laterally extensive and is hydraulically connected into the surrounding counties. The aquifer is confined and under artesian conditions. A Dakota Formation well drilled at this site could flow at the land surface and have a shut in pressure of about 10 psi.

Historically water levels in the Dakota Formation have been declining in Aurora County. The rate of decline is variable depending upon the location but is about a foot per year (Hamilton, 1985). The Division of Water Rights does monitor one observation well AU-89A which is located about 10 miles southwest of this application. Water levels in this well have declined a little over 1 foot in the past 2 years (Water Rights, 1992).

REVIEW OF EXISTING WATER PERMITS/RIGHTS

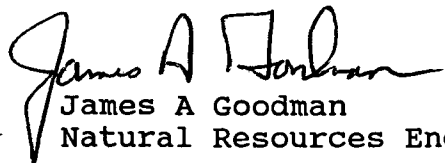
There are no other existing water permits/rights in this area which obtain water from the Dakota Formation. Interference is not expected to be a concern. The diversion rate is relatively small and drawdown caused by pumping should not be significant.

CONCLUSIONS

1. Water is available from the Dakota Formation.
2. The Dakota Formation is under artesian conditions and pumping will create drawdown. In this area, the Dakota Formation wells

will flow at the land surface but are under minimal pressure. Even a small change in water levels may cause a nearby well to cease flowing.

3. The well authorized by this application must be constructed in accordance with SD Well Construction Standards. This well must be grouted from the top of the Dakota Formation to the land surface. Because this well may flow the well must be controlled and shut in when not in use to prevent the waste of water.
4. This well may not flow the amount of water requested by this application. Care should be taken when designing the well to allow placement of a large enough pump into the well to produce the amount of water needed.


James A Goodman
Natural Resources Engineer

BIBLIOGRAPHY

Hamilton, L.J., 1985, Water Resources of Aurora and Jerauld Counties, South Dakota, USGS WRI 84-4030, USGS, Huron, SD, 57350.

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 Aurora County, SD DENR, Division of Water Rights, Pierre, SD, 57501.



**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.

June 4, 1992

Ron Kristensen, President
Fish Lake Country Club, Inc.
PO Box 413
Plankinton, SD 57368

Dear Mr. Kristensen:

Water Permit Application No. 5657-3 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 South Dakota Mail printed at Plankinton, SD (Ph # 942-7770). For your information a copy of the notice and letter to the newspaper are enclosed. Please review the notice prior to publication and notify this office, if you have any corrections or questions. A copy of the report and recommendation of the Chief Engineer will be forthcoming.

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.



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

June 4, 1992

South Dakota Mail
Box 367
Plankinton, SD 57368

ATTENTION: Legal Department

Enclosed is a Notice of Hearing on Application No. 5657-3 to be published twice. Please publish the first notice on June 11, 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 Fish Lake Country Club, Inc., PO Box 413, Plankinton, SD 57368 (Ph # 942-7781).

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
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 June 11, 1992, with the second publication 7 days later. The applicant is responsible for payment.

NOTICE OF HEARING on Application No. 5657-3 to Appropriate Water

Notice is given that Fish Lake Country Club, Inc., PO Box 413, Plankinton, SD 57368 has filed an application for a water permit to appropriate 0.11 cubic feet of water per second (cfs) from one well (Dakota Formation) approximately 800 feet deep located in the SE 1/4 SW 1/4 to irrigate 8 acres located in the E 1/2 SW 1/4; all in Section 16-T103N-R63W. Water Permit Nos. 4530-3 and 4530A-3, combined, appropriate 0.69 cfs from 2 wells (Pleistocene Unknown) 60 feet deep located in the SE 1/4 SW 1/4 to irrigate 48.25 acres located in the E 1/2 SW 1/4; all in Section 16-T103N-R63W. Historically, the total 48.25 acres authorized by these permits has not been irrigated. This application is to authorize diversions from the Dakota Formation well and the two Pleistocene Unknown wells to a dugout (4 acre-foot storage capacity) located in the SE 1/4 SW 1/4 Section 16-T103N-R63W. The dugout will also receive incidental surface water runoff. This water will then be pumped from the dugout for irrigation of the 8 acres of greens, tee boxes and fairway landings. Diversion from the dugout may not exceed 1 cfs for each 70 acres irrigated.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 5657-3 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 June 29, 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.

For purposes of publishing 1) the notice of hearing on Application No. 5657-3 and 2) the chief engineer's recommendation, a meeting at the Division of Water Rights office to hear this application is scheduled for July 8, 1992, at 9:00 am in Room 413, Joe Foss Building, 523 E Capitol, Pierre SD. If this application is opposed or the recommendation is contested, the July 8, 1992, hearing date will be rescheduled for a regularly scheduled Board meeting. Notice of the time and place of the rescheduled hearing before the Board will be given by First Class Mail to the applicant and persons filing petitions. Anyone not filing a petition, but interested in attending the hearing, may contact the Division of Water Rights to confirm a hearing date and location. The July 8, 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 June 29, 1992.

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. 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 the Water Rights Division to request copies of information pertaining to this application or to assure access to the hearing by the handicapped.

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; 46-5-1 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.

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)
County Aurora) ss.

I, Edward Van Benderen

certify that the attached printed Notice was taken
from the South Dakota mail

A newspaper which during the whole time of publication of
said notice herein after stated, has been and is printed and
published in the South Dakota mail

City of Plankinton

County of Aurora and State of South Dakota;
that the said notice was published in said newspaper on the
following two dates:

June 16, 1992
June 18, 1992

Edward Van Benderen
(Signature)

Bookkeeper
(Title)

June 18, 1992
(Date Signed)

Cost of Printing: 74.88



NOTICE OF HEARING ON APPLICATION NO. 5657-3 TO APPROPRIATE WATER

Notice is given that Fish Lake Country Club, Inc., PO Box 413, Plankinton, SD 57368 has filed an application for a water permit to appropriate 0.11 cubic feet of water per second (cfs) from one well (Dakota Formation) approximately 800 feet deep located in the SE $\frac{1}{4}$ SW $\frac{1}{4}$ to irrigate 8 acres located in the E $\frac{1}{2}$ SW $\frac{1}{4}$; all in Section 16-T103N-R63W. Water permit Nos. 4530-3 and 4530A-3, combined, appropriate 0.69 cfs from 2 wells (Pleistocene Unknown) 60 feet deep located in the SE $\frac{1}{4}$ SW $\frac{1}{4}$ to irrigate 48.25 acres located in the E $\frac{1}{2}$ SW $\frac{1}{4}$; all in Section 16-T103N-R63W. Historically, the total 48.25 acres authorized by these permits has not been irrigated. This application is to authorize diversions from the Dakota Formation well and the two Pleistocene Unknown wells to a dugout (4 acre-foot storage capacity) located in the SE $\frac{1}{4}$ SW $\frac{1}{4}$ Section 16-T103N-R63W. The dugout will also receive incidental surface water runoff. This water will then be pumped from the dugout for irrigation of the 8 acres of greens, tee boxes and fairway landings. Diversion from the dugout may not exceed 1 cfs for each 70 acres irrigated.

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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.

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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; 46-5-1 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.



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

June 11, 1992

Ron Kristensen, President
Fish Lake Country Club, Inc.
PO Box 413
Plankinton, SD 57368

RE: Water Permit Application No. 5657-3

Dear Mr. Kristensen:

Enclosed please find a copy of the report and recommendation in regard to the above-referenced matter.

Sincerely,

A handwritten signature in cursive script that reads 'Jaci R Konop'.

Jaci R Konop
Senior Secretary
Water Rights Division

Enclosure



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

JUL 13 1992

Ron Kristensen
Fish Lake Country Club, Inc.
Box 413
Plankinton, SD 57368

Dear Mr. Kristensen:

Enclosed is Water Permit No. 5657-3 authorizing construction of your water diversion system and beneficial use of the water, not exceeding the limits as specified in the Water Permit.

Also enclosed is Form 10, Notice of Completion of Works and Application of Water to Beneficial Use, which you are to complete and submit to the Chief Engineer when you have completed the system and/or have put the water to beneficial use. An inspection can then be scheduled so that the Water License may be issued, thus completing your acquisition of a Water Right.

Very truly yours,

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

enclosures

PLEASE NOTE: Certain changes can be made in your permit within the five year construction period, usually without affecting the priority date provided an application to amend your permit is made within the five year period - i.e. changes in location or number of diversion points (wells) or location of land to be irrigated. Well locations for wells into the same aquifer can be moved up to 660 feet without application.

Applications to amend a permit after the five year construction period will be assigned a new priority date. Applications to change water sources, to add lands or increase original diversion rates, if approved will usually receive the date of the new application as a priority date regardless of the five year construction period.



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

Date 10-20-93

TO: Water Rights Division, DWNR
Joe Foss Building
Pierre SD 57501-3181

FROM: FISH LAKE Country Club Box 413 Pleasanton
name address city SD 57368

I have completed the construction of the water diversion system and I have put the water to beneficial use to the maximum extent it is going to be used. I have not exceeded the amounts specified in Water Permit No. 4530-3 2118-3
4530A-3 5657-3

Water Permit No. 5657-3 states that the diversion system is to be constructed by 1998, and that the water it put to beneficial use by 1998.

The diversion system was completed on 10-18-92.
Applying the water to beneficial use was completed on 4-15-93.

You may schedule an inspection so that the Water License may be issued.

Our Burm did wash out due to heavy rain
but we will be reconstructing

Ron Kusner
signature

Tri-County Electric Association Inc.

CLARENCE MOSHIER, JR. PE, MANAGER

AREA CODE 605
PHONE 942-7786
FAX 942-7789

Co-operative

BOX 130
PLANKINTON, SOUTH DAKOTA 57368

December 3, 1997

Mr. John Hatch
Department of Environment and Natural Resources
Joe Foss Building
523 East Capitol
Pierre, S.D. 57501



Enclosed are the four forms for our permits to irrigate Fish Lake Golf Course. As you can see, we did not use two of the wells at all this year because of the abundant amount of rain. We did most of our pumping from the lake because of the amount of runoff that filled the lake. We also did pump some from the permit 5657-3 when the gas pump quit to pump out of the lake and had to be repaired.

If you have any questions, please call.

Gary Kristensen

President of Fish Lake Board



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

SEP 8 1998

5947-3

Gary Kristensen, President
Fish Lake Country Club, Inc.
Box 413
Plankinton, SD 57368

Dear Mr. Kristensen:

Enclosed are Water Permit and Water License No. 5947-3. This is the final water right document completing your process of obtaining a Water Right. Enclosed is Receipt No. 414810 in the amount of \$50.00 which you paid for the investigation 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. 5947-3, 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 Program
(605) 773-3352

ks
enclosures

NOTE: The applicable portions of Water Permit Nos. 2118-3, 4530-3, 4530A-3 and 5657-3 have been incorporated into Water License No. 5947-3.