

WATER PERMIT NO. 7564-3

Name of Applicant: Daelyn E Dirksen

Address: 40580 156th St, Conde SD 57434

Phone: 605 382-5689

Amount of Water Claimed: 1.67 cfs

Total Acres: 120 acres

Source of Water Supply: dugouts

Water to be used for: irrigation

County: Spink

Type of Waste Disposal System:

Location: 1 1/2 south of Conde

PRIORITY

Date Received: 11-26-12

Application/License Fee: \$ 950

Corrected Application Received: 12-19-12

Period of Annual Use: April 1 – October 31

Remarks:

Diversion Point: NE 1/4 SW 1/4 and SE 1/4 SE 1/4

Sec 12-T119N-R61W

Land to be Irrigated: S 1/2 Sec 12-T119N-R61W

Depth of Well:

Well Driller:

Remarks:

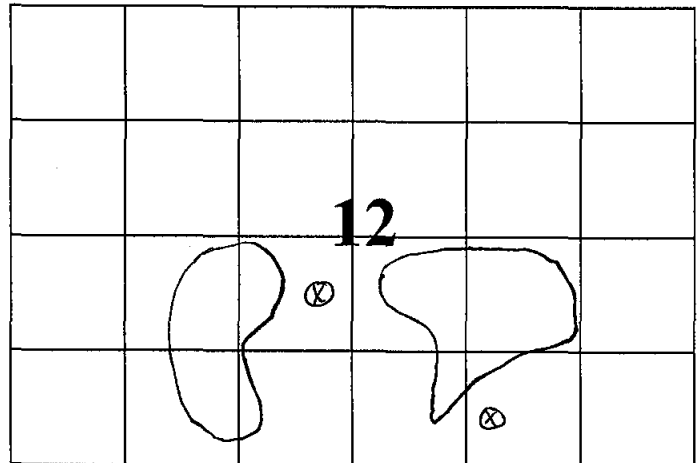
Type of Map: aerial

Prepared by:

Reviewed and the Number Assigned on: 12-19-12

By: Karen Schlaak

Notice of Hearing - date to intervene: _____



FORM 2: Application for irrigation in South Dakota
(type or print)

Mail to: Water Rights Program Joe Foss Building 523 E. Capitol Pierre, SD 57501-3181 (605) 773-3352	No. <u>7564-3</u>	(office use only) Hydrologic Unit <u>10160006</u>
	Basin <u>James River</u>	<u>605-472-0822</u>
	Newspaper <u>Redfield Press P.O. Box 440 57469</u>	<u>605-</u>
	<u>American News P.O. Box 4430 Aberdeen 57402 225-4100</u>	

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PROGRAM

Application For Permit To Appropriate Water For Irrigation

Type of Application: ☒ 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 Daelyn E. Dirksen Phone (605) 382-5689
(check one) ☒ Owner ☐ Tenant/lessee
Mailing Address 40580 156th St Conde State SD 57434
(Street, RR, or Box and City) (Zip Code)
- Amount of water claimed 1.67 CFS or 750 **GPM ***AF Total Acreage 120
(*Cubic Feet per Second) (**Gallons per Minute) (***)Acre Feet - storage capacity of dam/dugout or annual use if applicable
- Source of water supply Dugouts NOT well water
- Location of point of diversion (example - 3 wells in SW1/4 NE1/4 section 12-T104N-R53W) 2 dugouts in S 1/2
Section 12 119N 61W NE1/4 SW1/4 & SE1/4 SE1/4
County Spink
- County or counties where water will be used Spink
- Annual period during which water is to be used April 1 thru October 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 Section 12	40		
SE 1/4 Section 12	80		
all in T119N-R61W			

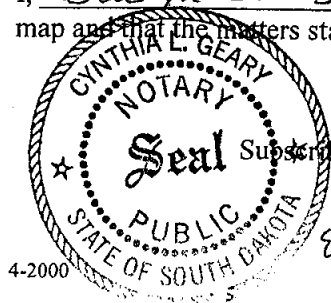
8. Give a description of the project. (Attach sheet if more space is needed)
Use a traveling gun to irrigate the higher ground pumping from 2 dugouts. One dugout is on the N side of my building site which is in a creek that flows from the Crandall Hills.

STATE OF SOUTH DAKOTA) SS
County of Spink)

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, Daelyn E. Dirksen, 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 Daelyn E. Dirksen
Subscribed and sworn to before me this 21st day of November 20 12



Cynthia L. Geary
Notary Public signature

SOUTH DAKOTA
WATER PERMIT NO. 7564-3

Date of first receipt of application November 26, 2012.

Date of return to applicant for corrections, amendments or changes November 27, 2012.

Date of receipt of corrected application December 19, 2012.

The Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 7564-3 to Daelyn E Dirksen, 40580 156th St, Conde SD 57434 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. 7564-3 appropriates 1.67 cubic feet of water per second from two dugouts (approximately 2 acre-feet storage capacity) located in NE 1/4 SW 1/4 and the SE 1/4 SE 1/4 Section 12 for irrigation of 120 acres located in the S 1/2 Section 12; all in T119N-R61W.
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 November 26, 2012.
4. The date of approval of Permit No. 7564-3 is February 11, 2013.
5. One-fifth of the construction is to be completed on or before August 11, 2015.
6. All construction is to be completed on or before February 11, 2018.
7. Water is to be put to beneficial use on or before February 11, 2022.
8. Water rights obtained in compliance with the laws of the State of South Dakota may not be unlawfully impaired by this appropriation.

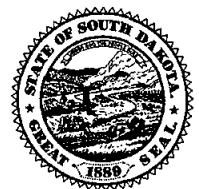
QUALIFICATIONS

1. Water Permit No. 7564-3 authorizes two dugouts with a total storage capacity of 2 acre feet of water and sufficient water annually to maintain the water level in the dugouts.
2. 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 04 2013
date



Supplemental Information

(type or print in ink)

1. Well Information - Proposed Construction

- a) Drill Hole Diameter _____ Depth _____
- b) Casing Type _____ Diameter _____ Thickness _____
- c) Screen Type _____ Diameter _____ Thickness _____
- d) Gravel Pack _____ Length of Gravel Pack _____
- e) Depth to Top of Water Bearing Material _____
- f) Depth to Water (ground surface to water level) _____
- g) Distance to nearest existing domestic well:
On applicants property _____ On property owned by others _____

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 _____

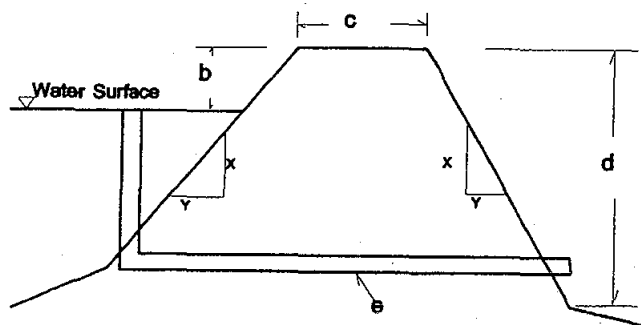
3. Dugout Information

- a) ~~Surface Dimensions~~ ONLY Dugouts NO Stock Dams! roughly 100ft by 40ft Depth 15-20ft
- b) Depth to water (ground surface to water level) Varies

4. Water Storage Dams

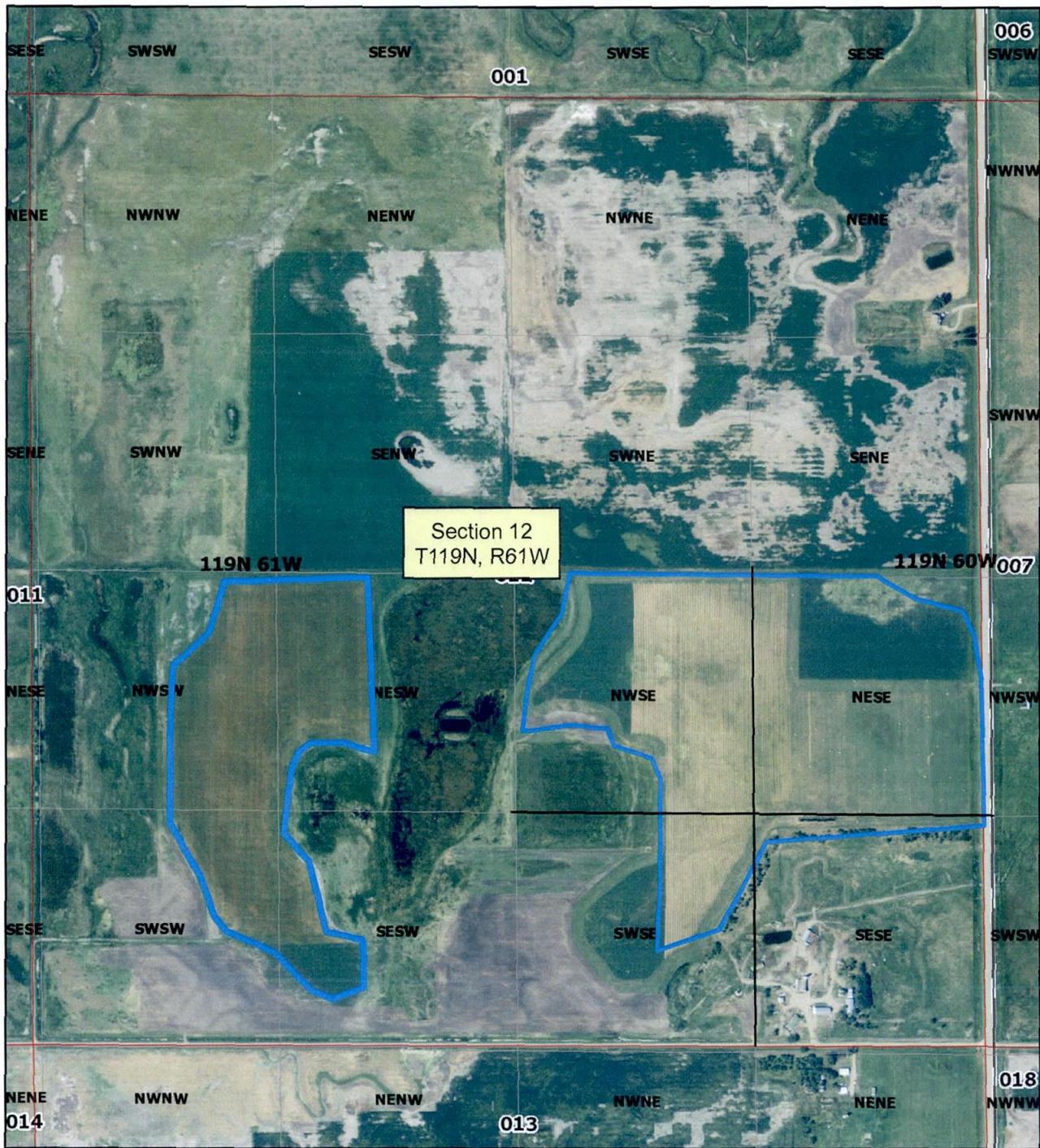
If the proposed water use system contains one or more storage dams, please furnish the information requested below for each dam. The locations of the dams need to be shown on the map submitted with the application.

- 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

Breakdown of Acres on Daelyn E Dirksen Water Permit Application



1,400 700 0 1,400 Feet

NW 1/4 SW 1/4 Section 12, T119N, R61W	14 acres
NE 1/4 SW 1/4 Section 12, T119N, R61W	12 acres
SW 1/4 SW 1/4 Section 12, T119N, R61W	8 acres
SE 1/4 SW 1/4 Section 12, T119N, R61W	6 acres
NW 1/4 SE 1/4 Section 12, T119N, R61W	31 acres
NE 1/4 SE 1/4 Section 12, T119N, R61W	37 acres
SW 1/4 SE 1/4 Section 12, T119N, R61W	8 acres
SE 1/4 SE 1/4 Section 12, T119N, R61W	4 acres



Eric Gronlund

Eric Gronlund
Water Rights Program, DENR
Breakdown based off of map
submitted by Mr. Dirksen

Sec 2
T119N
R61W

Sec 1
T119N
R61W

Sec 6
T119N
R60W

Sec 11
T119N
R61W

Sec 12
T119N
R61W

Sec 7
T119N
R60W

Irrigate

Dugout

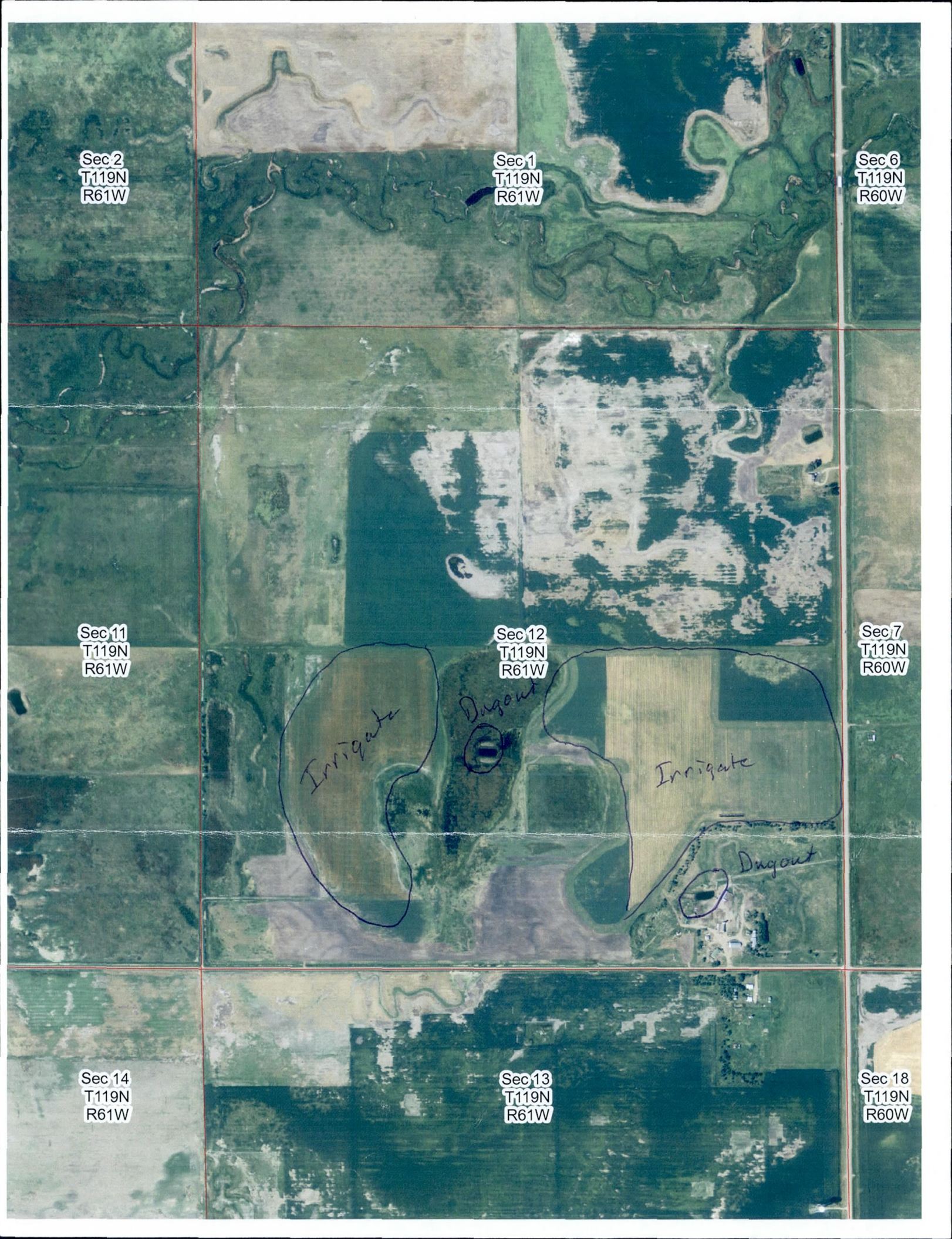
Irrigate

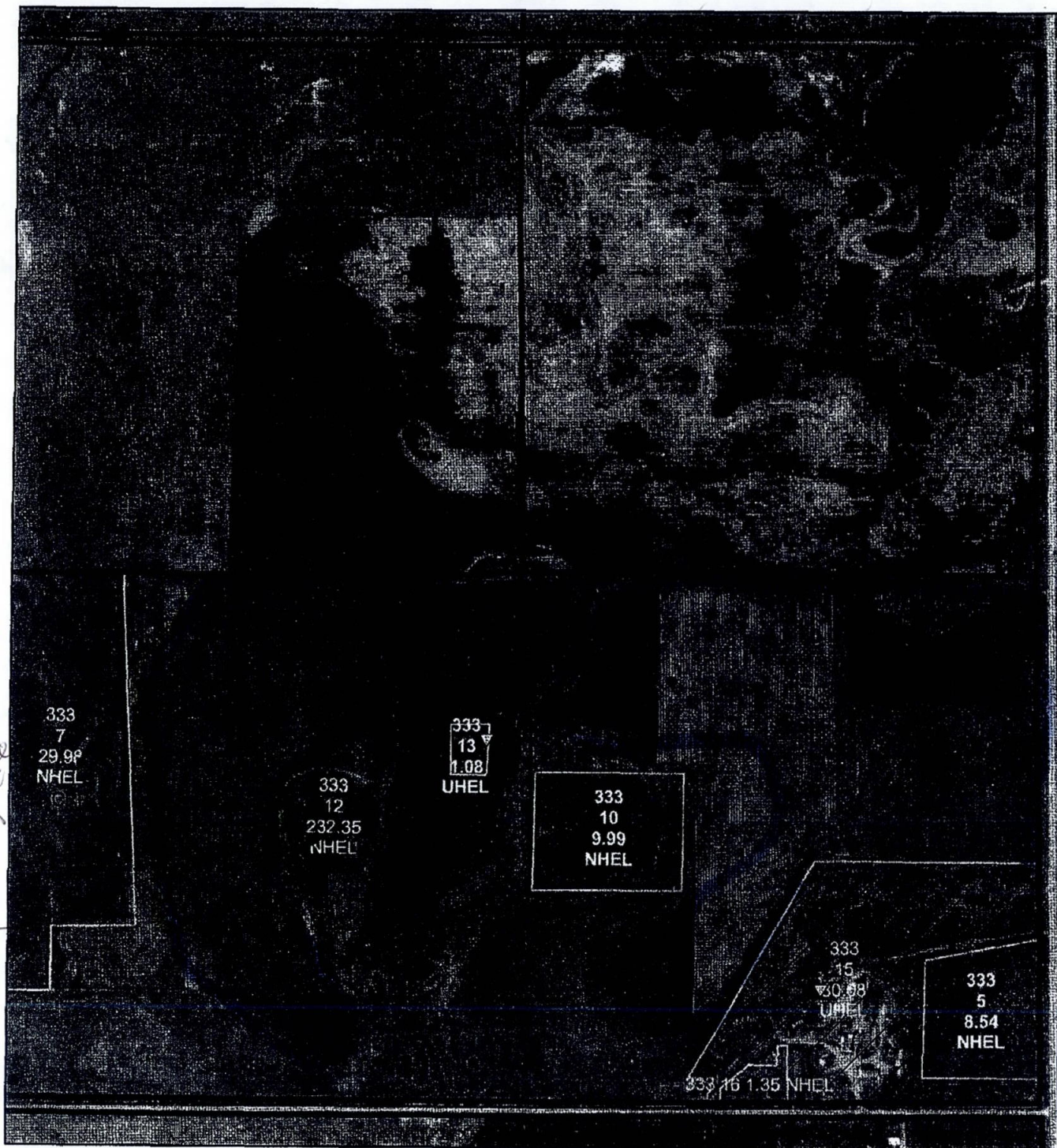
Dugout

Sec 14
T119N
R61W

Sec 13
T119N
R61W

Sec 18
T119N
R60W





United States Department of Agriculture
Farm Service Agency

December 02, 2010

PLSS: 12_119N_61W
Farm: 7604

Spink County, SD
1:8,080



Wetland Determination Identifiers

- Restricted Use
- ▽ Limited Restrictions
- Exempt from Conservation Compliance Provisions

Common Land Units

Disclaimer: Wetland identifiers do not represent the size, shape or specific determination of the area. Refer to your original determination (CPA-026 and attached maps) for exact wetland boundaries and determinations, or contact NRCS.

Russell Simon

2010 Ortho-Photography - Not to Scale

10-22-12

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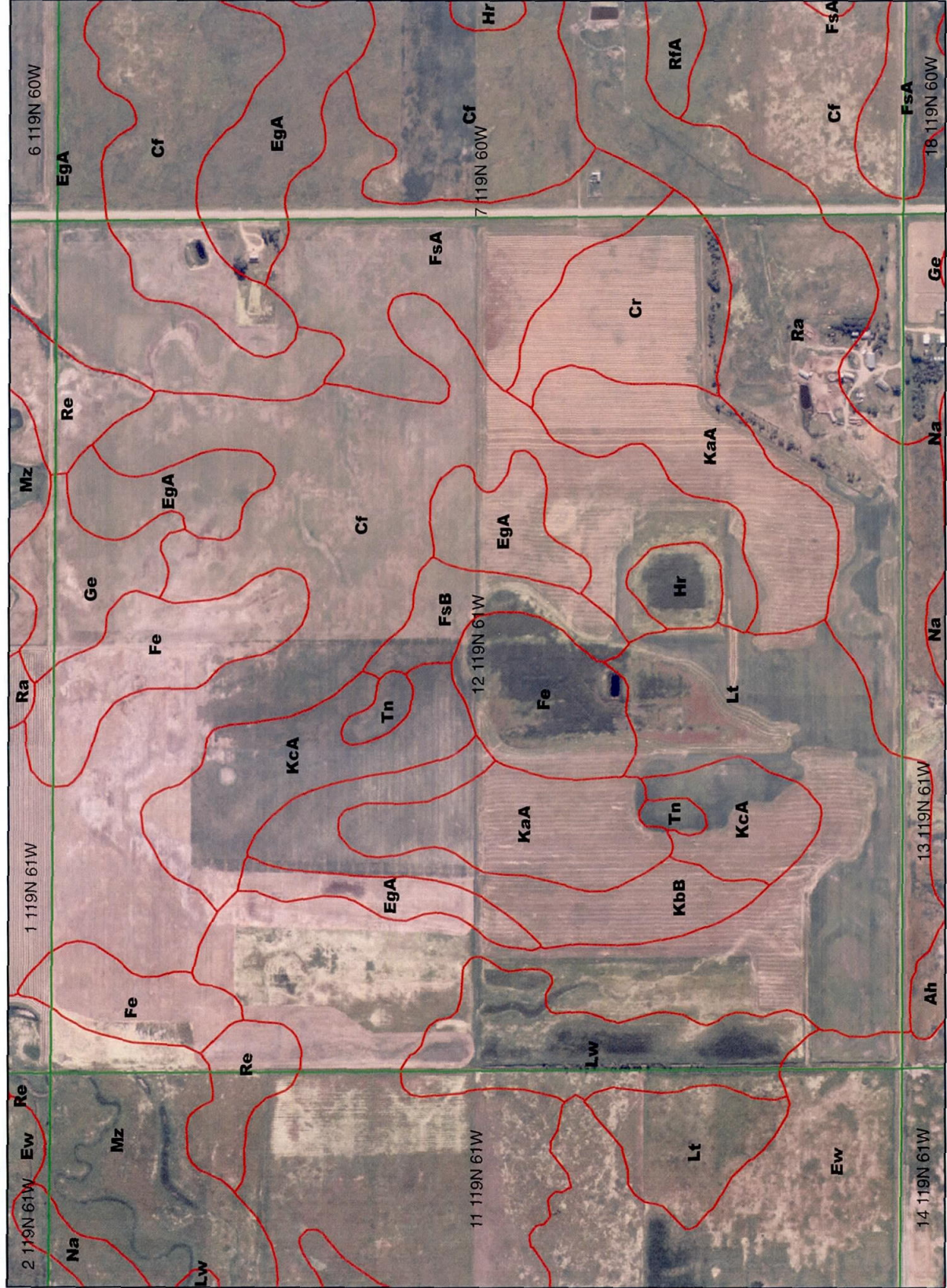
Soil Map

Date: 4/8/2011

Field Office: REDFIELD SERVICE CENTER
Agency: USDA/NRCS
Assisted By: JASON HERMANN
State and County: SD, SPINK
Land Units:

Customer(s):
District: SPINK COUNTY CONSERVATION DISTRICT
Approximate Acres:
Legal Description: 12-119N-61W

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Legend
Sections
Soils



Table 1 - Soil Interpretive Groups

Spink County, South Dakota

[This report shows only the major soils in each map unit]

Map unit symbol	Map unit name and components	Comp. pct.	Surf. tex.	Slope	T	Drain. class	Hyd. grp.	Kw	Kf	WEG	WEI	Cap. class nitr.	MLRA	CTSG	Forage suitability group name	Ecological site/RANGE SITE* (see footnote)
Aa	Aastad loam, 0 to 2 percent slopes	85	L	0-2	5	MW	B	.24	.24	6	48	IIC	55B	1	Overflow	Loamy Overflow
Ab	Aastad-Hamerly loams, 0 to 2 percent slopes															
	Aastad	50	L	0-2	5	MW	B	.24	.24	6	48	IIC	55B	1	Overflow	Loamy Overflow
	Hamerly	35	L	0-2	5	SP	C	.24	.24	4L	86	Ile	55B	2KK	Subirrigated	Limy Subirrigated
Ad	Aastad-Tonka complex, 0 to 2 percent slopes															
	Aastad	60	L	0-2	5	MW	B	.24	.24	6	48	IIC	55B	1	Overflow	Loamy Overflow
	Tonka	30	SIL	0-1	5	P	C/D	.37	.37	6	48	IVw	55B	10	Wet	Wet Meadow
Ae	Aberdeen-Nahon silt loams, till substratum, 0 to 2 percent slopes															
	Aberdeen	55	SIL	0-2	5	MW	C	.37	.37	6	48	IIIs	55B	4	Clayey Subsoil	Clayey
	Nahon	35	SIL	0-2	2	MW	D	.37	.37	6	48	IVs	55B	9C	Claypan	Claypan
Ah	Aberdeen-Nahon silty clay loams, 0 to 2 percent slopes															
	Aberdeen	55	SICL	0-2	5	MW	C	.37	.37	7	38	IIIs	55B	4	Clayey Subsoil	Clayey
	Nahon	35	SIL	0-2	2	MW	D	.37	.37	7	38	IVs	55B	9C	Claypan	Claypan
An	Aberdeen-Nahon-Heil silt loams, 0 to 2 percent slopes															
	Aberdeen	45	SIL	0-2	5	MW	C	.37	.37	6	48	IIIs	55B	4	Clayey Subsoil	Clayey
	Nahon	25	SIL	0-2	2	MW	D	.37	.37	6	48	IVs	55B	9C	Claypan	Claypan
	Heil	20	SIL	0-1	2	P	D	.37	.37	6	48	Vis	55B	10	Not suited	Closed Depression
Ao	Aberdeen-Nahon-Heil silt loams, till substratum, 0 to 2 percent slopes															
	Aberdeen	45	SIL	0-2	5	MW	C	.37	.37	6	48	IIIs	55B	4	Clayey Subsoil	Clayey
	Nahon	25	SIL	0-2	2	MW	D	.37	.37	6	48	IVs	55B	9C	Claypan	Claypan
	Heil	20	SIL	0-1	2	P	D	.37	.37	6	48	Vis	55B	10	Not suited	Closed Depression
At	Aquents, loamy, 0 to 2 percent slopes															
	Aquents	90	SIL	0-2	5	VP	D	.32	.32	4L	86	Vw	55C	10	Not suited	Closed Depression
BaC	Beadle loam, 6 to 9 percent slopes															
	Beadle	80	L	6-9	5	W	C	.28	.28	6	48	IVe	55C	4	Clayey Subsoil	CLAYEY
BdA	Beadle-Dudley complex, 0 to 2 percent slopes															
	Beadle	50	L	0-2	5	W	C	.28	.28	6	48	IIIs	55C	4	Clayey Subsoil	CLAYEY
	Dudley	35	L	0-2	2	MW	D	.37	.37	6	48	IVs	55C	9C	Claypan	CLAYPAN
BeA	Beadle-Stickney complex, 0 to 2 percent slopes															
	Beadle	60	L	0-2	5	W	C	.28	.28	6	48	IIIs	55C	4	Clayey Subsoil	CLAYEY
	Stickney	30	SIL	0-2	5	MW	C	.37	.37	6	48	IIIs	55C	4	Clayey Subsoil	CLAYEY
BeB	Beadle-Stickney complex, 1 to 6 percent slopes															
	Beadle	60	L	2-6	5	W	C	.28	.28	6	48	IIle	55C	4	Clayey Subsoil	CLAYEY
	Stickney	30	SIL	1-2	5	MW	C	.37	.37	6	48	IIIs	55C	4	Clayey Subsoil	CLAYEY
BfA	Beadle-Stickney complex, 0 to 2 percent slopes, very stony															
	Beadle	60	L	0-2	5	W	C	.24	.28	8	0	VIIIs	55C	10	Not suited	CLAYEY
	Stickney	30	SIL	0-2	5	MW	C	.37	.37	8	0	VIIIs	55C	10	Not suited	CLAYEY
BfB	Beadle-Stickney complex, 1 to 6 percent slopes, very stony															

* Ecological sites are designated in lower case letters. Range sites in upper case letters. Ecological sites have not been developed for all MLRAs.

Survey Area Version: 6

Survey Area Version Date: 01/12/2007

Table 1 - Soil Interpretive Groups

Spink County, South Dakota

[This report shows only the major soils in each map unit]

Map unit symbol	Map unit name and components	Comp. pct.	Surf. tex.	Slope	T	Drain. class	Hyd. grp.	Kw	Kf	WEG	WEI	Cap. class nitr.	MLRA	CTSG	Forage suitability group name	Ecological site/RANGE SITE* (see footnote)
BfB	Beadle-Stickney complex, 1 to 6 percent slopes, very stony															
	Beadle	60	L	2-6	5	W	C	.28	.28	8	0	Vlls	55C	10	Not suited	CLAYEY
	Stickney	30	SIL	1-2	5	MW	C	.37	.37	8	0	Vlls	55C	10	Not suited	CLAYEY
Bg	Bearden silt loam, 0 to 2 percent slopes															
	Bearden	85	SIL	0-2	5	SP	C	.28	.28	4L	86	Ile	55B	2KK	Subirrigated	Limy Subirrigated
Bk	Bearden-Tonka silt loams, 0 to 2 percent slopes															
	Bearden	60	SIL	0-2	5	SP	C	.28	.28	4L	86	Ile	55B	2KK	Subirrigated	Limy Subirrigated
	Tonka	30	SIL	0-1	5	P	C/D	.37	.37	6	48	IVw	55B	10	Wet	Wet Meadow
Bo	Beotia silt loam, 0 to 2 percent slopes															
	Beotia	90	SIL	0-2	5	W	B	.28	.28	6	48	Ilc	55B	1	Loam	Loamy
Br	Beotia-Rondell silt loams, 0 to 3 percent slopes															
	Beotia	50	SIL	0-2	5	W	B	.28	.28	6	48	Ilc	55B	1	Loam	Loamy
	Rondell	35	SIL	0-3	5	MW	B	.28	.28	4L	86	Ile	55B	1K	Limy Upland	Limy Subirrigated
Bs	Beotia-Winship silt loams, 0 to 2 percent slopes															
	Beotia	60	SIL	0-2	5	MW	B	.28	.28	6	48	Ilc	55B	1	Overflow	Loamy Overflow
	Winship	30	SIL	0-1	5	SP	C	.37	.37	6	48	Ilw	55B	2	Subirrigated	Loamy Overflow
Bt	Beotia-Winship silt loams, till substratum, 0 to 2 percent slopes															
	Beotia	60	SIL	0-2	5	MW	B	.28	.28	6	48	Ilc	55B	1	Overflow	Loamy Overflow
	Winship	30	SIL	0-1	5	SP	C	.37	.37	6	48	Ilw	55B	2	Subirrigated	Loamy Overflow
Bu	Bon loam, 0 to 2 percent slopes															
	Bon	90	L	0-2	5	MW	B	.24	.24	6	48	Ilc	55C	1	Loam	LOAMY OVERFLOW
Bw	Bon loam, channeled															
	Bon	85	L	0-2	5	MW	B	.24	.24	6	48	Vlw	55C	1	Overflow	LOAMY OVERFLOW
BxD	Buse-Barnes loams, 9 to 20 percent slopes															
	Buse	55	L	9-20	5	W	B	.28	.28	4L	86	Vle	55B	10	Limy Upland	Thin Loamy
	Barnes	35	L	9-15	5	W	B	.24	.24	6	48	IVe	55B	3	Loam	Loamy
ByE	Buse-Barnes loams, 9 to 40 percent slopes, very stony															
	Buse	50	L	9-40	5	W	B	.20	.28	8	0	Vlls	55B	10	Not suited	Thin Loamy
	Barnes	35	L	9-25	5	W	B	.17	.24	8	0	Vlls	55B	10	Not suited	Loamy
BzE	Buse-Langhei complex, 15 to 40 percent slopes															
	Buse	50	L	15-40	5	W	B	.28	.28	4L	86	Vlle	55B	10	Not suited	Thin Loamy
	Langhei	40	CL	15-40	5	W	B	.28	.32	4L	86	Vlle	55B	10	Not suited	Thin Loamy
Ca	Camtown-Turton loams, 0 to 2 percent slopes															
	Camtown	55	L	0-2	5	MW	C	.32	.32	5	56	Ills	55B	4	Clayey Subsoil	Clayey
	Turton	30	L	0-2	2	MW	D	.32	.32	5	56	IVs	55B	9C	Claypan	Claypan
Cf	Cavour-Ferney loams, 0 to 2 percent slopes															
	Cavour	55	L	0-2	2	MW	D	.32	.32	6	48	IVs	55B	9C	Claypan	Claypan
	Ferney	35	L	0-2	2	MW	D	.32	.32	6	48	Vls	55B	10	Not suited	Thin Claypan
Co	Colvin silty clay loam, saline, 0 to 1 percent slopes															

Table 1 - Soil Interpretive Groups

Spink County, South Dakota

[This report shows only the major soils in each map unit]

Map unit symbol	Map unit name and components	Comp. pct.	Surf. tex.	Slope	T	Drain. class	Hyd. grp.	Kw	Kf	WEG	WEI	Cap. class nitr.	MLRA	CTSG	Forage suitability group name	Ecological site/RANGE SITE* (see footnote)
Co	Colvin silty clay loam, saline, 0 to 1 percent slopes	85	SICL	0-1	5	P	C/D	.37	.37	4L	86	IVw	55B	10	Saline	SALINE SUBIRRIGATED
Cr	Cresbard-Cavour loams, 0 to 2 percent slopes															
	Cresbard	60	L	0-2	5	MW	C	.32	.32	6	48	IIIs	55B	4	Clayey Subsoil	Clayey
	Cavour	30	L	0-2	2	MW	D	.32	.32	6	48	IVs	55B	9C	Claypan	Claypan
Cs	Cresbard-Cavour-Heil complex, 0 to 2 percent slopes															
	Cresbard	40	L	0-2	5	MW	C	.32	.32	6	48	IIIs	55B	4	Clayey Subsoil	Clayey
	Cavour	30	L	0-2	2	MW	D	.32	.32	6	48	IVs	55B	9C	Claypan	Claypan
	Heil	20	SIL	0-1	2	P	D	.37	.37	6	48	VIIs	55B	10	Not suited	Closed Depression
Ct	Crossplain-Tetonka complex, 0 to 1 percent slopes															
	Crossplain	60	L	0-1	5	SP	C	.32	.32	6	48	IIw	55C	2	Subirrigated	LOAMY OVERFLOW
	Tetonka	30	SIL	0-1	5	P	C/D	.37	.37	6	48	IVw	55C	10	Wet	WET MEADOW
Da	Davis-Northville complex, 0 to 2 percent slopes															
	Davis	55	L	0-2	5	MW	B	.24	.24	6	48	IIc	55C	1	Overflow	LOAMY OVERFLOW
	Northville	35	SIL	0-2	5	MW	C	.37	.37	6	48	IIIs	55C	4	Clayey Subsoil	CLAYEY
Db	Davison loam, 0 to 2 percent slopes															
	Davison	85	L	0-2	5	MW	B	.28	.28	4L	86	IIe	55C	1KK	Subirrigated	LIMY SUBIRRIGATED
Dd	Davison-Tetonka complex, 0 to 2 percent slopes															
	Davison	50	L	0-2	5	MW	B	.28	.28	4L	86	IIe	55C	1KK	Subirrigated	LIMY SUBIRRIGATED
	Tetonka	40	SIL	0-1	5	P	C/D	.37	.37	6	48	IVw	55C	10	Wet	WET MEADOW
DeA	Delmont-Enet loams, 0 to 2 percent slopes															
	Delmont	55	L	0-2	3	SE	B	.28	.28	6	48	IVs	55C	6G	Very Droughty Loam	SHALLOW TO GRAVEL
	Enet	35	L	0-2	4	W	B	.28	.28	6	48	IIIs	55C	6G	Droughty Loam	LOAMY
Dk	Dimo loam, 0 to 2 percent slopes															
	Dimo	85	L	0-2	4	SP	B	.24	.24	6	48	IIIs	55C	2	Subirrigated	LOAMY OVERFLOW
Dm	Dimo-Grat loams, 0 to 2 percent slopes															
	Dimo	55	L	0-2	4	SP	B	.24	.24	6	48	IIIs	55C	2	Subirrigated	LOAMY OVERFLOW
	Grat	30	L	0-1	4	P	D	.32	.32	6	48	IVw	55C	10	Wet	WET MEADOW
DoA	Doland-Embsden complex, 0 to 3 percent slopes															
	Doland	50	L	0-3	5	W	B	.24	.24	6	48	IIc	55B	3	Loam	Loamy
	Embsden	30	FSL	0-3	5	MW	B	.20	.20	3	86	IIle	55B	1	Droughty Loam	Sandy
Dq	Dovecreek silt loam, 0 to 2 percent slopes															
	Dovecreek	90	SIL	0-2	5	MW	B	.28	.28	6	48	IIc	53B	1	Overflow	Loamy Overflow
Dr	Dovray silty clay, 0 to 1 percent slopes															
	Dovray	90	SIC	0-1	5	P	D	.28	.28	4	86	Vw	55B	10	Wet	SHALLOW MARSH
Du	Dudley-Jerauld silt loams, 0 to 2 percent slopes															
	Dudley	55	L	0-2	2	MW	D	.37	.37	6	48	IVs	55C	9C	Claypan	CLAYPAN
	Jerauld	35	SIL	0-2	2	MW	D	.37	.37	6	48	VIIs	55C	10	Not suited	THIN CLAYPAN

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Survey Area Version: 6

Survey Area Version Date: 01/12/2007

Table 1 - Soil Interpretive Groups

Spink County, South Dakota

[This report shows only the major soils in each map unit]

Map unit symbol	Map unit name and components	Comp. pct.	Surf. tex.	Slope	T	Drain. class	Hyd. grp.	Kw	Kf	WEG	WEI	Cap. class nirr.	MLRA	CTSG	Forage suitability group name	Ecological site/RANGE SITE* (see footnote)
Dx	Durrstein silt loam, 0 to 1 percent slopes	85	SIL	0-1	2	P	D	.37	.37	6	48	Vls	55C	10	Not suited	SALINE LOWLAND
Ea	Eckman very fine sandy loam, 0 to 2 percent slopes	85	VFSL	0-2	5	W	B	.28	.28	3	86	Ile	55B	3	Loam	Loamy
EaA	Eckman-Gardena very fine sandy loams, 0 to 2 percent slopes	50	VFSL	0-2	5	W	B	.28	.28	3	86	Ile	55B	3	Loam	Loamy
	Gardena	40	VFSL	0-2	5	MW	B	.28	.28	3	86	Ile	55B	1	Overflow	Loamy
EaB	Eckman-Gardena very fine sandy loams, 2 to 6 percent slopes	60	VFSL	2-6	5	W	B	.28	.28	3	86	Ile	55B	3	Loam	Loamy
	Eckman	30	VFSL	2-3	5	MW	B	.28	.28	3	86	Ile	55B	1	Overflow	Loamy
EaB	Eckman-Zell very fine sandy loams, 2 to 6 percent slopes	60	VFSL	2-6	5	W	B	.28	.28	3	86	Ile	55B	3	Loam	Loamy
	Zell	30	VFSL	2-6	5	W	B	.28	.28	3	86	Ile	55B	8K	Limy Upland	Thin Loamy
EaB	Edgeley loam, 2 to 6 percent slopes	85	L	2-6	3	W	C	.32	.32	6	48	Ile	55B	6D	Droughty Loam	Loamy
EaC	Edgeley loam, 6 to 9 percent slopes	85	L	6-9	3	W	C	.32	.32	6	48	Ile	55B	6D	Droughty Loam	Loamy
EaD	Edgeley loam, 9 to 20 percent slopes	85	L	9-20	3	W	C	.32	.32	6	48	Vlle	55B	10	Not suited	Loamy
EgA	Egeland-Embsden complex, 0 to 2 percent slopes	50	SL	0-2	5	W	B	.20	.20	3	86	Ile	55B	5	Droughty Loam	Sandy
	Embsden	40	FSL	0-2	5	MW	B	.20	.20	3	86	Ile	55B	1	Droughty Loam	Sandy
EgB	Egeland-Embsden complex, 2 to 6 percent slopes	50	SL	2-6	5	W	B	.20	.20	3	86	Ile	55B	5	Droughty Loam	Sandy
	Egeland	35	FSL	2-6	5	MW	B	.20	.20	3	86	Ile	55B	1	Droughty Loam	Sandy
Ek	Elsmere loamy sand, 0 to 2 percent slopes	85	LS	0-2	5	SP	A	.17	.17	2	134	Ive	55C	2	Subirrigated	SUBIRRIGATED
EmE	Ethan-Betts loams, 15 to 40 percent slopes	50	L	25-40	5	W	B	.28	.28	4L	86	Vlle	55C	10	Not suited	THIN UPLAND
	Betts	40	L	25-40	5	W	B	.28	.28	4L	86	Vlle	55C	10	Not suited	THIN UPLAND
EnD	Ethan-Hand loams, 9 to 20 percent slopes	55	L	9-20	5	W	B	.28	.28	4L	86	Vlle	55C	10	Limy Upland	THIN UPLAND
	Hand	35	L	9-15	5	W	B	.28	.28	6	48	Ive	55C	3	Loam	LOAMY
Er	Exline-Aberdeen-Nahon silt loams, 0 to 2 percent slopes	50	SIL	0-2	2	SP	D	.37	.37	6	48	Vls	55B	10	Not suited	Thin Claypan
	Exline	25	SIL	0-2	5	MW	C	.37	.37	6	48	Ils	55B	4	Clayey Subsoil	Clayey
	Aberdeen	20	SIL	0-2	2	MW	D	.37	.37	6	48	Ivs	55B	9C	Claypan	Claypan
Et	Exline-Aberdeen-Nahon silt loams, till substratum, 0 to 2 percent slopes	50	SIL	0-2	2	SP	D	.37	.37	6	48	Vls	55B	10	Not suited	Thin Claypan
	Exline															

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Survey Area Version: 6

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Table 1 - Soil Interpretive Groups

Spink County, South Dakota

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Map unit symbol	Map unit name and components	Comp. pct.	Surf. tex.	Slope	T	Drain. class	Hyd. grp.	Kw	Kf	WEG	WEI	Cap. class nitr.	MLRA	CTSG	Forage suitability group name	Ecological site/RANGE SITE* (see footnote)
Et	Exline-Aberdeen-Nahon silt loams, till substratum, 0 to 2 percent slopes															
	Aberdeen	25	SIL	0-2	5	MW	C	.37	.37	6	48	Ills	55B	4	Clayey Subsoil	Clayey
	Nahon	20	SIL	0-2	2	MW	D	.37	.37	6	48	IVs	55B	9C	Claypan	Claypan
Ew	Exline-Heil silt loams, 0 to 2 percent slopes															
	Exline	50	SIL	0-2	2	SP	D	.37	.37	6	48	VIIs	55B	10	Not suited	Thin Claypan
	Heil	40	SIL	0-1	2	P	D	.37	.37	6	48	VIIs	55B	10	Not suited	Closed Depression
Ex	Exline-Heil silt loams, till substratum, 0 to 2 percent slopes															
	Exline	50	SIL	0-2	2	SP	D	.37	.37	6	48	VIIs	55B	10	Not suited	Thin Claypan
	Heil	40	SIL	0-1	2	P	D	.37	.37	6	48	VIIs	55B	10	Not suited	Closed Depression
Eya	Exline-Putney silt loams, 1 to 4 percent slopes															
	Exline	45	SIL	1-3	2	MW	D	.37	.37	6	48	VIIs	55B	10	Not suited	Thin Claypan
	Putney	40	SIL	2-4	5	W	B	.37	.37	6	48	Ile	55B	3	Loam	Loamy
Fa	Farmsworth-Durrstein silt loams, 0 to 2 percent slopes															
	Farmsworth	50	SIL	0-2	2	SP	D	.32	.32	6	48	IVs	55C	9W	Claypan	CLAYPAN
	Durrstein	35	SIL	0-1	2	P	D	.37	.37	6	48	VIIs	55C	10	Not suited	SALINE LOWLAND
Fe	Ferney-Heil complex, 0 to 2 percent slopes															
	Ferney	50	L	0-2	2	SP	D	.32	.32	6	48	VIIs	55B	10	Not suited	Thin Claypan
	Heil	40	SIL	0-1	2	P	D	.37	.37	6	48	VIIs	55B	10	Not suited	Closed Depression
Ff	Forestburg-Elsmere loamy sands, 0 to 2 percent slopes															
	Forestburg	60	LS	0-2	5	MW	A	.17	.17	2	134	IVe	55C	1	Sand	SANDY
	Elsmere	30	LS	0-2	5	SP	A	.17	.17	2	134	IVe	55C	2	Subirrigated	SUBIRRIGATED
Fh	Forestburg-Elsmere-Toko complex, 0 to 2 percent slopes															
	Forestburg	45	LS	0-2	5	MW	A	.17	.17	2	134	IVe	55C	1	Sand	SANDY
	Elsmere	25	LS	0-2	5	SP	A	.17	.17	2	134	IVe	55C	2	Subirrigated	SUBIRRIGATED
	Toko	20	FSL	0-1	5	P	C	.24	.24	3	86	IVw	55C	10	Wet	WET MEADOW
Fma	Forman-Aastad loams, 0 to 3 percent slopes															
	Forman	50	L	0-3	5	W	B	.24	.24	6	48	IIc	55B	3	Loam	Loamy
	Aastad	40	L	0-2	5	MW	B	.24	.24	6	48	IIc	55B	1	Overflow	Loamy Overflow
Fmb	Forman-Aastad loams, 1 to 6 percent slopes															
	Forman	60	L	3-6	5	W	B	.24	.24	6	48	Ile	55B	3	Loam	Loamy
	Aastad	30	L	1-2	5	MW	B	.24	.24	6	48	IIc	55B	1	Overflow	Loamy Overflow
Fnc	Forman-Buse loams, 6 to 9 percent slopes															
	Forman	55	L	6-9	5	W	B	.24	.24	6	48	IIle	55B	3	Loam	Loamy
	Buse	35	L	6-9	5	W	B	.28	.28	4L	86	IVe	55B	8K	Limy Upland	Thin Loamy
Frb	Forman-Buse-Aastad loams, 1 to 6 percent slopes															
	Forman	50	L	2-6	5	W	B	.24	.24	6	48	Ile	55B	3	Loam	Loamy
	Buse	25	L	3-6	5	W	B	.28	.28	4L	86	IIle	55B	8K	Limy Upland	Thin Loamy
	Aastad	20	L	1-2	5	MW	B	.24	.24	6	48	IIc	55B	1	Overflow	Loamy Overflow
Frc	Forman-Buse-Aastad loams, 2 to 9 percent slopes															

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FrC	Forman-Buse-Aastad loams, 2 to 9 percent slopes															
	Forman	45	L	6-9	5	W	B	.24	.24	6	48	IIIe	55B	3	Loam	Loamy
	Buse	30	L	6-9	5	W	B	.28	.28	4L	86	IVe	55B	8K	Limy Upland	Thin Loamy
	Aastad	20	L	2-6	5	MW	B	.24	.24	6	48	IIe	55B	1	Loam	Loamy
FsA	Forman-Cresbard loams, 0 to 2 percent slopes															
	Forman	55	L	0-2	5	W	B	.24	.24	6	48	IIc	55B	3	Loam	Loamy
	Cresbard	30	L	0-2	5	MW	C	.32	.32	6	48	IIIs	55B	4	Clayey Subsoil	Clayey
FsB	Forman-Cresbard loams, 2 to 6 percent slopes															
	Forman	60	L	2-6	5	W	B	.24	.24	6	48	IIe	55B	3	Loam	Loamy
	Cresbard	30	L	2-6	5	MW	C	.32	.32	6	48	IIe	55B	4	Clayey Subsoil	Clayey
FtA	Forman-Cresbard-Tonka complex, 0 to 2 percent slopes															
	Forman	45	L	0-2	5	W	B	.24	.24	6	48	IIc	55B	3	Loam	Loamy
	Cresbard	25	L	0-2	5	MW	C	.32	.32	6	48	IIIs	55B	4	Clayey Subsoil	Clayey
	Tonka	20	SIL	0-1	5	P	C/D	.37	.37	6	48	IVw	55B	10	Wet	Wet Meadow
Ga	Gardena very fine sandy loam, 0 to 2 percent slopes															
	Gardena	90	VFSL	0-2	5	MW	B	.28	.28	3	86	IIe	55B	1	Overflow	Loamy
Gd	Gardena-Glyndon silt loams, 0 to 2 percent slopes															
	Gardena	55	SIL	0-2	5	MW	B	.28	.28	5	56	IIc	55B	1	Overflow	Loamy
	Glyndon	35	SIL	0-2	5	MW	B	.28	.28	4L	86	IIe	55B	2KK	Subirrigated	Limy Subirrigated
Ge	Gardena-Turton very fine sandy loams, 0 to 2 percent slopes															
	Gardena	50	VFSL	0-2	5	MW	B	.28	.28	3	86	IIe	55B	1	Overflow	Loamy
	Turton	35	VFSL	0-2	2	MW	D	.24	.24	3	86	IVe	55B	9C	Claypan	Claypan
GgA	Great Bend silt loam, 0 to 2 percent slopes															
	Great Bend	90	SIL	0-2	5	W	B	.32	.32	6	48	IIc	55B	3	Loam	Loamy
GnA	Great Bend-Beotia silt loams, 0 to 2 percent slopes															
	Great Bend	50	SIL	0-2	5	W	B	.32	.32	6	48	IIc	55B	3	Loam	Loamy
	Beotia	40	SIL	0-2	5	W	B	.28	.28	6	48	IIc	55B	1	Loam	Loamy
GnB	Great Bend-Beotia silt loams, 1 to 6 percent slopes															
	Great Bend	60	SIL	2-6	5	W	B	.32	.32	6	48	IIe	55B	3	Loam	Loamy
	Beotia	30	SIL	1-2	5	W	B	.28	.28	6	48	IIc	55B	1	Loam	Loamy
GoA	Great Bend-Beotia silt loams, till substratum, 0 to 2 percent slopes															
	Great Bend	50	SIL	0-2	5	W	B	.32	.32	6	48	IIc	55B	3	Loam	Loamy
	Beotia	40	SIL	0-2	5	W	B	.28	.28	6	48	IIc	55B	1	Loam	Loamy
GpA	Great Bend-Putney silt loams, 0 to 2 percent slopes															
	Great Bend	50	SIL	0-2	5	W	B	.32	.32	6	48	IIc	55B	3	Loam	Loamy
	Putney	35	SIL	0-2	5	W	B	.37	.37	6	48	IIIs	55B	3	Loam	Loamy
GpB	Great Bend-Putney silt loams, 2 to 4 percent slopes															
	Great Bend	50	SIL	2-4	5	W	B	.32	.32	6	48	IIe	55B	3	Loam	Loamy
	Putney	35	SIL	2-4	5	W	B	.37	.37	6	48	IIe	55B	3	Loam	Loamy

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GtB	Great Bend-Zell silt loams, 2 to 6 percent slopes															
	Great Bend	60	SIL	2-6	5	W	B	.32	.32	6	48	IIe	55B	3	Loam	Loamy
	Zell	30	SIL	2-6	5	W	B	.32	.32	4L	86	IIle	55B	8K	Limy Upland	Thin Loamy
GtC	Great Bend-Zell silt loams, 4 to 9 percent slopes															
	Great Bend	50	SIL	6-9	5	W	B	.32	.32	6	48	IIle	55B	3	Loam	Loamy
	Zell	40	SIL	6-9	5	W	B	.32	.32	4L	86	IVe	55B	8K	Limy Upland	Thin Loamy
GzC	Great Bend-Zell-Huffton silt loams, 4 to 9 percent slopes															
	Great Bend	45	SIL	4-9	5	W	B	.32	.32	6	48	IIle	55B	3	Loam	Loamy
	Zell	25	SIL	6-9	5	W	B	.32	.32	4L	86	IVe	55B	8K	Limy Upland	Thin Loamy
	Huffton	20	SIL	6-9	5	W	B	.37	.37	4L	86	IVe	55B	9L	Saline	Thin Loamy
HaA	Hamery loam, 0 to 2 percent slopes															
	Hamery	85	L	0-2	5	SP	C	.24	.24	4L	86	IIe	55B	2KK	Subirrigated	Limy Subirrigated
Hb	Hamery-Tonka complex, 0 to 2 percent slopes															
	Hamery	50	L	0-2	5	SP	C	.24	.24	4L	86	IIe	55B	2KK	Subirrigated	Limy Subirrigated
	Tonka	40	SIL	0-1	5	P	C/D	.37	.37	6	48	IVw	55B	10	Wet	Wet Meadow
HcA	Hand-Bonilla loams, 0 to 3 percent slopes															
	Hand	50	L	0-2	5	W	B	.28	.28	6	48	IIc	55C	3	Loam	LOAMY
	Bonilla	40	L	0-2	5	MW	B	.24	.24	6	48	IIc	55C	1	Overflow	LOAMY OVERFLOW
HcB	Hand-Bonilla loams, 1 to 6 percent slopes															
	Hand	60	L	2-6	5	W	B	.28	.28	6	48	IIe	55C	3	Loam	LOAMY
	Bonilla	30	L	1-2	5	MW	B	.24	.24	6	48	IIc	55C	1	Overflow	LOAMY OVERFLOW
HdA	Hand-Carthage fine sandy loams, 0 to 3 percent slopes															
	Hand	50	FSL	0-2	5	W	B	.20	.20	3	86	IIle	55C	3	Loam	LOAMY
	Carthage	40	FSL	0-2	5	MW	B	.20	.20	3	86	IIle	55C	5	Droughty Loam	SANDY
He	Hand-Carthage-Overshure fine sandy loams, 0 to 3 percent slopes															
	Hand	45	FSL	0-2	5	W	B	.20	.20	3	86	IIle	55C	3	Loam	LOAMY
	Carthage	25	FSL	0-2	5	MW	B	.20	.20	3	86	IIle	55C	5	Droughty Loam	SANDY
	Overshure	20	FSL	0-1	5	P	B/D	.20	.20	3	86	IIlw	55C	10	Wet	WET MEADOW
HfC	Hand-Ethan loams, 6 to 9 percent slopes															
	Hand	55	L	6-9	5	W	B	.28	.28	6	48	IIle	55C	3	Loam	LOAMY
	Ethan	35	L	6-9	5	W	B	.28	.28	4L	86	IVe	55C	8K	Limy Upland	THIN UPLAND
HgB	Hand-Ethan-Bonilla loams, 1 to 6 percent slopes															
	Hand	50	L	2-6	5	W	B	.28	.28	6	48	IIe	55C	3	Loam	LOAMY
	Ethan	25	L	2-6	5	W	B	.28	.28	4L	86	IIle	55C	8K	Limy Upland	THIN UPLAND
	Bonilla	20	L	1-2	5	MW	B	.24	.24	6	48	IIc	55C	1	Overflow	LOAMY OVERFLOW
HgC	Hand-Ethan-Bonilla loams, 2 to 9 percent slopes															
	Hand	45	L	6-9	5	W	B	.28	.28	6	48	IIle	55C	3	Loam	LOAMY
	Ethan	30	L	6-9	5	W	B	.28	.28	4L	86	IVe	55C	8K	Limy Upland	THIN UPLAND
	Bonilla	20	L	2-6	5	MW	B	.24	.24	6	48	IIe	55C	1	Loam	LOAMY

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HhB	Hand-Ethan-Carthage complex, 1 to 6 percent slopes															
	Hand	50	FSL	2-6	5	W	B	.20	.20	3	86	Ille	55C	3	Loam	LOAMY
	Ethan	25	L	2-6	5	W	B	.28	.28	4L	86	Ille	55C	8K	Limy Upland	THIN UPLAND
	Carthage	20	FSL	1-2	5	MW	B	.20	.20	3	86	Ille	55C	5	Droughty Loam	SANDY
HJB	Hand-Talmo complex, 2 to 6 percent slopes															
	Hand	45	L	2-6	5	W	B	.28	.28	6	48	Ille	55C	3	Loam	LOAMY
	Talmo	35	GR-L	2-6	2	E	A	.20	.28	5	56	Vis	55C	10	Very Shallow To Gravel	VERY SHALLOW
HJC	Hand-Talmo complex, 6 to 9 percent slopes															
	Hand	45	L	6-9	5	W	B	.28	.28	6	48	Ille	55C	3	Loam	LOAMY
	Talmo	35	GR-L	6-9	2	E	A	.20	.28	5	56	Vis	55C	10	Not suited	VERY SHALLOW
Hk	Harmony-Aberdeen silt loams, till substratum, 0 to 2 percent slopes															
	Harmony	55	SIL	0-2	5	MW	C	.37	.37	6	48	Ilis	55B	4	Clayey Subsoil	Clayey
	Aberdeen	35	SIL	0-2	5	MW	C	.37	.37	6	48	Ilis	55B	4	Clayey Subsoil	Clayey
Hm	Harmony-Aberdeen silty clay loams, 0 to 2 percent slopes															
	Harmony	55	SICL	0-2	5	MW	C	.37	.37	7	38	Ilis	55B	4	Clayey Subsoil	Clayey
	Aberdeen	35	SICL	0-2	5	MW	C	.37	.37	7	38	Ilis	55B	4	Clayey Subsoil	Clayey
Hn	Harmony-Beotia silt loams, 0 to 2 percent slopes															
	Harmony	55	SIL	0-2	5	MW	C	.37	.37	6	48	Ilis	55B	4	Clayey Subsoil	Clayey
	Beotia	35	SIL	0-2	5	W	B	.28	.28	6	48	Ilc	55B	1	Loam	Loamy
Ho	Harmony-Beotia silt loams, till substratum, 0 to 2 percent slopes															
	Harmony	55	SIL	0-2	5	MW	C	.37	.37	6	48	Ilis	55B	4	Clayey Subsoil	Clayey
	Beotia	35	SIL	0-2	5	W	B	.28	.28	6	48	Ilc	55B	1	Loam	Loamy
Hp	Harriet loam, 0 to 1 percent slopes															
	Harriet	90	L	0-1	2	P	D	.32	.32	6	48	Vis	55B	10	Not suited	Saline Lowland
Hr	Heil silt loam, 0 to 1 percent slopes															
	Heil	90	SIL	0-1	2	P	D	.37	.37	6	48	Vis	55B	10	Not suited	Closed Depression
HsA	Henkin-Blendon fine sandy loams, 0 to 2 percent slopes															
	Henkin	55	FSL	0-2	5	W	B	.20	.20	3	86	Ille	55C	5	Droughty Loam	SANDY
	Blendon	35	FSL	0-2	5	W	B	.20	.20	3	86	Ille	55C	5	Droughty Loam	SANDY
HsB	Henkin-Blendon fine sandy loams, 2 to 6 percent slopes															
	Henkin	60	FSL	2-6	5	W	B	.20	.20	3	86	Ille	55C	5	Droughty Loam	SANDY
	Blendon	30	FSL	2-6	5	W	B	.20	.20	3	86	Ille	55C	5	Droughty Loam	SANDY
HtB	Houdek-Ethan-Prosper loams, 1 to 6 percent slopes															
	Houdek	50	L	2-6	5	W	B	.24	.24	6	48	Ille	55C	3	Loam	LOAMY
	Ethan	25	L	2-6	5	W	B	.28	.28	4L	86	Ille	55C	8K	Limy Upland	THIN UPLAND
	Prosper	20	L	1-2	5	MW	B	.24	.24	6	48	Ilc	55C	1	Overflow	LOAMY OVERFLOW
HtC	Houdek-Ethan-Prosper loams, 2 to 9 percent slopes															
	Houdek	45	L	6-9	5	W	B	.24	.24	6	48	Ille	55C	3	Loam	LOAMY
	Ethan	30	L	6-9	5	W	B	.28	.28	4L	86	Ive	55C	8K	Limy Upland	THIN UPLAND

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Survey Area Version: 6

Survey Area Version Date: 01/12/2007

Table 1 - Soil Interpretive Groups

Spink County, South Dakota

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Map unit symbol	Map unit name and components	Comp. pct.	Surf. tex.	Slope	T	Drain. class	Hyd. grp.	Kw	Kf	WEG	WEI	Cap. class nitr.	MLRA	CTSG	Forage suitability group name	Ecological site/RANGE SITE* (see footnote)
HtC	Houdek-Ethan-Prosper loams, 2 to 9 percent slopes Prosper	20	L	2-6	5	MW	B	.24	.24	6	48	lle	55C	1	Loam	LOAMY
HuA	Houdek-Prosper loams, 0 to 2 percent slopes Houdek Prosper	50 40	L L	0-2 0-2	5 5	W MW	B B	.24 .24	.24 .24	6 6	48 48	llc llc	55C 55C	3 1	Loam Overflow	LOAMY LOAMY OVERFLOW
HuB	Houdek-Prosper loams, 1 to 6 percent slopes Houdek Prosper	60 30	L L	2-6 1-2	5 5	W MW	B B	.24 .24	.24 .24	6 6	48 48	lle llc	55C 55C	3 1	Loam Overflow	LOAMY LOAMY OVERFLOW
HwA	Houdek-Stickney complex, 0 to 2 percent slopes Houdek Stickney	55 35	L SIL	0-2 0-2	5 5	W MW	B C	.24 .37	.24 .37	6 6	48 48	llc llls	55C 55C	3 4	Loam Clayey Subsoil	LOAMY CLAYEY
HxA	Houdek-Stickney-Tetonka complex, 0 to 2 percent slopes Houdek Stickney Tetonka	45 25 20	L SIL SIL	0-2 0-2 0-1	5 5 5	W MW P	B C C/D	.24 .37 .37	.24 .37 .37	6 6 6	48 48 48	llc llls lvw	55C 55C 55C	3 4 10	Loam Clayey Subsoil Wet	LOAMY CLAYEY WET MEADOW
Hv	Hoven silt loam, 0 to 1 percent slopes Hoven	90	SIL	0-1	2	P	D	.37	.37	6	48	vlis	55C	10	Not suited	CLOSED DEPRESSION
le	Ipaga-Els-Shue complex, 0 to 6 percent slopes Ipaga Els Shue	45 25 20	FS FS LFS	2-6 0-1 0-2	5 5 5	MW SP SP	A A C	.15 .15 .17	.15 .15 .17	1 1 2	220 220 134	vle vle lvw	55C 55C 55C	7 2 2	Sand Subirrigated Subirrigated	SANDY SUBIRRIGATED SUBIRRIGATED
Jh	Jerauld-Hoven silt loams, 0 to 2 percent slopes Jerauld Hoven	50 40	SIL SIL	0-2 0-1	2 2	MW P	D D	.37 .37	.37 .37	6 6	48 48	vlis vlis	55C 55C	10 10	Not suited Not suited	THIN CLAYPAN CLOSED DEPRESSION
KaA	Kranzburg-Brookings silt loams, 0 to 2 percent slopes Kranzburg Brookings	50 40	SIL SIL	0-2 0-2	5 5	W MW	B B	.28 .28	.28 .28	6 6	48 48	llc llc	55B 55B	3 1	Loam Overflow	Loamy Loamy Overflow
KbB	Kranzburg-Brookings-Buse complex, 1 to 6 percent slopes Kranzburg Brookings Buse	40 30 25	SIL SIL L	2-6 1-2 3-6	5 5 5	W MW W	B B B	.28 .28 .28	.28 .28 .28	6 6 4L	48 48 86	lle llc llle	55B 55B 55B	3 1 8K	Loam Overflow Limy Upland	Loamy Loamy Overflow Thin Loamy
KcA	Kranzburg-Cresbard silt loams, 0 to 2 percent slopes Kranzburg Cresbard	55 30	SIL SIL	0-2 0-2	5 5	W MW	B C	.28 .37	.28 .37	6 6	48 48	llc llls	55B 55B	3 4	Loam Clayey Subsoil	Loamy Clayey
KtA	Kranzburg-Cresbard-Tonka silt loams, 0 to 2 percent slopes Kranzburg Cresbard Tonka	45 25 20	SIL SIL SIL	0-2 0-2 0-1	5 5 5	W MW P	B C C/D	.28 .37 .37	.28 .37 .37	6 6 6	48 48 48	llc llls lvw	55B 55B 55B	3 4 10	Loam Clayey Subsoil Wet	Loamy Clayey Wet Meadow
KzB	Kranzburg-Zell-Aastad complex, 1 to 6 percent slopes															

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Spink County, South Dakota

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KzB	Kranzburg-Zell-Aastad complex, 1 to 6 percent slopes															
	Kranzburg	40	SIL	2-6	5	W	B	.28	.28	6	48	Ile	55B	3	Loam	Loamy
	Zell	30	SIL	2-6	5	W	B	.32	.32	4L	86	Ile	55B	8K	Limy Upland	Thin Loamy
	Aastad	20	L	1-2	5	MW	B	.24	.24	6	48	Ile	55B	1	Overflow	Loamy Overflow
La	La Prairie loam, 0 to 2 percent slopes															
	La Prairie	85	L	0-2	5	MW	B	.24	.24	6	48	Ile	55B	1	Loam	Loamy
Lc	La Prairie-Holmquist loams, channeled															
	La Prairie	50	L	0-2	5	MW	B	.24	.24	6	48	Vlw	55B	1	Overflow	Loamy Overflow
	Holmquist	40	L	0-2	5	P	D	.24	.24	4L	86	Vlw	55B	10	Saline	SALINE SUBIRRIGATED
Ld	LaDelle silt loam, 0 to 2 percent slopes															
	LaDelle	90	SIL	0-2	5	MW	B	.28	.28	6	48	Ile	55B	1	Loam	Loamy
Le	LaDelle silt loam, channeled															
	LaDelle	85	SIL	0-2	5	MW	B	.28	.28	6	48	Vlw	55B	1	Overflow	Loamy Overflow
Lk	Lamo silty clay loam, 0 to 1 percent slopes															
	Lamo	90	SICL	0-1	5	SP	C	.32	.32	4L	86	Ile	55C	2K	Subirrigated	SUBIRRIGATED
Lm	Lamoure silty clay loam, 0 to 1 percent slopes															
	Lamoure	85	SICL	0-1	5	SP	C	.28	.28	4L	86	Ile	55B	2K	Subirrigated	Subirrigated
Ln	Lawet loam, 0 to 2 percent slopes															
	Lawet	85	L	0-2	5	P	B/D	.24	.24	4L	86	IVw	55C	10	Wet	SUBIRRIGATED
Lo	Lawet loam, wet, 0 to 1 percent slopes															
	Lawet	90	L	0-1	5	VP	B/D	.24	.24	4L	86	Vw	55C	10	Not suited	WET LAND
Lp	Lawet-Davison loams, 0 to 2 percent slopes															
	Lawet	60	L	0-2	5	P	B/D	.24	.24	4L	86	IVw	55C	10	Wet	SUBIRRIGATED
	Davison	30	L	0-2	5	MW	B	.28	.28	4L	86	Ile	55C	1KK	Subirrigated	LIMY SUBIRRIGATED
LrA	Lehr-Bowdle loams, 0 to 3 percent slopes															
	Lehr	55	L	0-3	3	SE	B	.28	.28	5	56	IVs	53B	6G	Very Droughty Loam	Shallow to Gravel
	Bowdle	35	L	0-2	4	W	B	.24	.24	6	48	Ils	53B	6G	Droughty Loam	Loamy
LrB	Lehr-Bowdle loams, 3 to 6 percent slopes															
	Lehr	60	L	3-6	3	SE	B	.28	.28	5	56	IVe	53B	6G	Very Droughty Loam	Shallow to Gravel
	Bowdle	30	L	2-6	4	W	B	.24	.24	6	48	Ile	53B	6G	Droughty Loam	Loamy
Ls	Lowe loam, 0 to 1 percent slopes															
	Lowe	85	L	0-1	5	P	B/D	.24	.24	4L	86	IVw	55B	10	Wet	Subirrigated
Lt	Ludden silty clay, 0 to 1 percent slopes															
	Ludden	85	SIC	0-1	5	P	D	.28	.28	4	86	IVw	55B	10	Wet	Wet Land
Lu	Ludden silty clay, ponded															
	Ludden	90	SIC	0-1	5	VP	D	.28	.28	4	86	Vllw	55B	10	Not suited	
Lw	Ludden silty clay, wet, 0 to 1 percent slopes															
	Ludden	85	SIC	0-1	5	VP	D	.28	.28	4	86	Vw	55B	10	Not suited	Wet Land

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Survey Area Version: 6

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Spink County, South Dakota

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MaC	Maddock-Egeland sandy loams, 6 to 9 percent slopes															
	Maddock	50	SL	6-9	5	W	A	.20	.20	3	86	IVe	55B	5	Very Droughty Loam	Sandy
	Egeland	35	SL	6-9	5	W	B	.20	.20	3	86	IVe	55B	5	Droughty Loam	Sandy
MdA	Max-Arnegard loams, 0 to 3 percent slopes															
	Max	50	L	0-3	5	W	B	.28	.28	6	48	IIc	53B	3	Loam	Loamy
	Arnegard	40	L	0-2	5	MW	B	.24	.24	6	48	IIc	53B	1	Overflow	Loamy Overflow
MdB	Max-Arnegard loams, 1 to 6 percent slopes															
	Max	60	L	3-6	5	W	B	.28	.28	6	48	IIe	53B	3	Loam	Loamy
	Arnegard	30	L	1-2	5	MW	B	.24	.24	6	48	IIc	53B	1	Overflow	Loamy Overflow
MgB	Max-Arnegard-Zahl loams, 1 to 6 percent slopes															
	Max	45	L	3-6	5	W	B	.28	.28	6	48	IIe	53B	3	Loam	Loamy
	Arnegard	30	L	1-2	5	MW	B	.24	.24	6	48	IIc	53B	1	Overflow	Loamy Overflow
	Zahl	20	L	3-6	5	W	B	.28	.28	4L	86	IIe	53B	8K	Limy Upland	Thin Loamy
MnB	Max-Niobell-Noonan loams, 2 to 6 percent slopes															
	Max	40	L	3-6	5	W	B	.28	.28	6	48	IIe	53B	3	Loam	Loamy
	Niobell	30	L	2-6	5	MW	C	.32	.32	6	48	IIe	53B	4	Clayey Subsoil	Clayey
	Noonan	20	L	2-6	2	MW	D	.32	.32	6	48	IVs	53B	9C	Claypan	Claypan
M-W	Miscellaneous water															
	Miscellaneous water	100														
MxC	Max-Zahl-Arnegard loams, 2 to 9 percent slopes															
	Max	45	L	6-9	5	W	B	.28	.28	6	48	IIe	53B	3	Loam	Loamy
	Zahl	30	L	6-9	5	W	B	.28	.28	4L	86	IVe	53B	8K	Limy Upland	Thin Loamy
	Arnegard	20	L	2-6	5	W	B	.24	.24	6	48	IIe	53B	1	Loam	Loamy
My	Miranda-Heil complex, 0 to 2 percent slopes															
	Miranda	50	L	0-2	2	SP	D	.32	.32	6	48	VIIs	53B	10	Not suited	Thin Claypan
	Heil	40	SIL	0-2	2	P	D	.37	.37	6	48	VIIs	53B	10	Not suited	Closed Depression
Mz	Moritz-Lowe loams, 0 to 2 percent slopes															
	Moritz	55	L	0-2	5	SP	C	.24	.24	4L	86	IIe	55B	2KK	Subirrigated	Limy Subirrigated
	Lowe	35	L	0-1	5	P	B/D	.24	.24	4L	86	IVw	55B	10	Wet	Subirrigated
Na	Nahon-Aberdeen-Exline silt loams, 0 to 2 percent slopes															
	Nahon	45	SIL	0-2	2	MW	D	.37	.37	6	48	IVs	55B	9C	Claypan	Claypan
	Aberdeen	30	SIL	0-2	5	MW	C	.37	.37	6	48	IIIs	55B	4	Clayey Subsoil	Clayey
	Exline	20	SIL	0-2	2	SP	D	.37	.37	6	48	VIIs	55B	10	Not suited	Thin Claypan
Nb	Nahon-Aberdeen-Exline silt loams, till substratum, 0 to 2 percent slopes															
	Nahon	45	SIL	0-2	2	MW	D	.37	.37	6	48	IVs	55B	9C	Claypan	Claypan
	Aberdeen	30	SIL	0-2	5	MW	C	.37	.37	6	48	IIIs	55B	4	Clayey Subsoil	Clayey
	Exline	20	SIL	0-2	2	SP	D	.37	.37	6	48	VIIs	55B	10	Not suited	Thin Claypan
Nc	Niobell-Noonan loams, 0 to 2 percent slopes															
	Niobell	60	L	0-2	5	MW	C	.32	.32	6	48	IIIs	53B	4	Clayey Subsoil	Clayey

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Nc	Niobell-Noonan loams, 0 to 2 percent slopes	30	L	0-2	2	MW	D	.32	.32	6	48	IVs	53B	9C	Claypan	Claypan
Nd	Niobell-Noonan-Heil complex, 0 to 2 percent slopes	40	L	0-2	5	MW	C	.32	.32	6	48	IIIIs	53B	4	Clayey Subsoil	Clayey
	Niobell	30	L	0-2	2	MW	D	.32	.32	6	48	IVs	53B	9C	Claypan	Claypan
	Heil	20	SIL	0-1	2	P	D	.37	.37	6	48	VIIs	53B	10	Not suited	Closed Depression
NeA	Niobell-Noonan-Max loams, 0 to 3 percent slopes	40	L	0-3	5	MW	C	.32	.32	6	48	IIIIs	53B	4	Clayey Subsoil	Clayey
	Niobell	30	L	0-3	2	MW	D	.32	.32	6	48	IVs	53B	9C	Claypan	Claypan
	Max	20	L	2-3	5	W	B	.28	.28	6	48	IIc	53B	3	Loam	Loamy
Nm	Noonan-Miranda loams, 0 to 2 percent slopes	55	L	0-2	2	MW	D	.32	.32	6	48	IVs	53B	9C	Claypan	Claypan
	Noonan	35	L	0-2	2	MW	D	.32	.32	6	48	VIIs	53B	10	Not suited	Thin Claypan
Nr	Northville-Farnsworth silt loams, 0 to 2 percent slopes	60	SIL	0-2	5	MW	C	.37	.37	6	48	IIIIs	55C	4	Clayey Subsoil	CLAYEY
	Farnsworth	30	SIL	0-2	2	SP	D	.32	.32	6	48	IVs	55C	9W	Claypan	CLAYPAN
Nv	Northville-Farnsworth-Hoven silt loams, 0 to 2 percent slopes	40	SIL	0-2	5	MW	C	.37	.37	6	48	IIIIs	55C	4	Clayey Subsoil	CLAYEY
	Northville	30	SIL	0-2	2	SP	D	.32	.32	6	48	IVs	55C	9W	Claypan	CLAYPAN
	Hoven	20	SIL	0-1	2	P	D	.37	.37	6	48	VIIs	55C	10	Not suited	CLOSED DEPRESSION
Ov	Overshue fine sandy loam, 0 to 1 percent slopes	90	FSL	0-1	5	P	B/D	.20	.20	3	86	IIIW	55C	10	Wet	WET MEADOW
Pa	Parnell silty clay loam, 0 to 1 percent slopes	90	SICL	0-1	5	VP	D	.37	.37	7	38	VW	55B	10	Not suited	
Pc	Parshall loams, 0 to 3 percent slopes	85	L	0-3	5	W	B	.28	.28	5	56	IIIs	53B	1	Loam	Sandy
PeA	Peever clay loam, 0 to 2 percent slopes	85	CL	0-2	5	W	C	.32	.32	6	48	IIIs	55B	4	Clayey Subsoil	Clayey
PgB	Peever-Buse clay loams, 1 to 4 percent slopes	60	CL	2-4	5	W	C	.32	.32	6	48	IIIe	55B	4	Clayey Subsoil	Clayey
	Peever	30	CL	3-4	5	W	B	.28	.28	4L	86	IIIe	55B	8K	Limy Upland	Thin Loamy
PoA	Peever-Cavour complex, 0 to 2 percent slopes	60	CL	0-2	5	W	C	.32	.32	6	48	IIIs	55B	4	Clayey Subsoil	Clayey
	Peever	30	L	0-2	2	MW	D	.32	.32	6	48	IVs	55B	9C	Claypan	Claypan
Pp	Pits, gravel and sand	90	GR-L	0-60	3	E	A	.20	.28	5	56	VIIIIs	55B	10	Not suited	
Pr	Playmoor silty clay loam, 0 to 1 percent slopes	85	SICL	0-1	5	P	C/D	.28	.28	4L	86	IVW	55B	10	Saline	SALINE SUBIRRIGATED

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Py	Playmoor-Lamoure silty clay loams, channeled															
	Playmoor	50	SiCL	0-2	5	P	C/D	.28	.28	4L	86	Vlw	55B	10	Saline	SALINE
Ra	Ranslo silty clay loam, 0 to 1 percent slopes															
	Ranslo	40	SiCL	0-2	5	P	C	.28	.28	4L	86	Vlw	55B	10	Wet	SUBIRRIGATED Subirrigated
Re	Ranslo-Harriet loams, 0 to 2 percent slopes															
	Ranslo	85	SiCL	0-1	2	SP	D	.37	.37	7	38	IVs	55B	9W	Claypan	Subirrigated
	Harriet	50	L	0-2	2	SP	D	.32	.32	6	48	IVs	55B	9W	Claypan	Subirrigated
RfA	Renshaw-Fordville loams, 0 to 2 percent slopes															
	Renshaw	40	L	0-1	2	P	D	.32	.32	6	48	Vls	55B	10	Not suited	Saline Lowland
RfB	Renshaw-Fordville loams, 2 to 6 percent slopes															
	Renshaw	55	L	0-2	3	SE	B	.28	.28	6	48	IVs	55B	6G	Very Droughty Loam	Shallow to Gravel
	Fordville	35	L	0-2	4	W	B	.24	.24	6	48	Ills	55B	6G	Droughty Loam	Loamy
So	Renshaw-Fordville loams, 2 to 6 percent slopes															
	Renshaw	60	L	2-6	3	SE	B	.28	.28	6	48	IVe	55B	6G	Very Droughty Loam	Shallow to Gravel
	Fordville	30	L	2-6	4	W	B	.24	.24	6	48	Ille	55B	6G	Droughty Loam	Loamy
St	Southern silty clay loam, 0 to 1 percent slopes															
	Southern	90	SiCL	0-1	5	VP	D	.37	.37	4L	86	Vlllw	55B	10	Not suited	
Su	Stickney-Dudley silt loams, 0 to 2 percent slopes															
	Stickney	60	SiL	0-2	5	MW	C	.37	.37	6	48	Ills	55C	4	Clayey Subsoil	CLAYEY
	Dudley	30	L	0-2	2	MW	D	.37	.37	6	48	IVs	55C	9C	Claypan	CLAYPAN
Sw	Stickney-Dudley-Hoven silt loams, 0 to 2 percent slopes															
	Stickney	40	SiL	0-2	5	MW	C	.37	.37	6	48	Ills	55C	4	Clayey Subsoil	CLAYEY
	Dudley	30	L	0-2	2	MW	D	.37	.37	6	48	IVs	55C	9C	Claypan	CLAYPAN
	Hoven	20	SiL	0-1	2	P	D	.37	.37	6	48	Vls	55C	10	Not suited	CLOSED DEPRESSION
Sx	Straw loam, channeled															
	Straw	85	L	0-2	5	W	B	.28	.28	5	56	Vlw	53B	1	Overflow	Loamy Overflow
TbE	Straw loam, 0 to 2 percent slopes															
	Straw	90	L	0-2	5	W	B	.28	.28	5	56	Ilc	53B	1	Loam	Loamy
Te	Talmo-Ethan complex, 9 to 40 percent slopes, very stony															
	Talmo	45	GR-L	9-40	2	E	A	.20	.28	8	0	Vlls	55C	10	Not suited	VERY SHALLOW
	Ethan	35	L	9-40	5	W	B	.28	.28	8	0	Vlls	55C	10	Not suited	THIN UPLAND
Tk	Tetanka silt loam, 0 to 1 percent slopes															
	Tetanka	90	SiL	0-1	5	P	C/D	.37	.37	6	48	IVw	55C	10	Wet	WET MEADOW
Tm	Toko fine sandy loam, 0 to 1 percent slopes															
	Toko	90	FSL	0-1	5	P	C	.24	.24	3	86	IVw	55C	10	Wet	WET MEADOW
Tn	Tonka silt loam, 0 to 1 percent slopes															
	Tonka	90	FSL	0-1	5	VP	C	.24	.24	3	86	Vw	55C	10	Not suited	WET LAND
	Tonka	90	SiL	0-1	5	P	C/D	.37	.37	6	48	IVw	55B	10	Wet	Wet Meadow

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To	Tonka-Rimlap silt loams, 0 to 1 percent slopes															
	Tonka	60	SIL	0-1	5	P	C/D	.37	.37	6	48	IVw	53B	10	Wet	Wet Meadow
Us	Rimlap	30	SIL	0-1	5	P	C/D	.28	.28	6	48	IVw	53B	10	Wet	Closed Depression
	Udorthents, silty, 0 to 2 percent slopes															
	Udorthents	90	SIL	0-2	5	W	B	.32	.32	4L	86	IVe	55B	10	Not suited	
Va	Vallers-Hamerly loams, 0 to 2 percent slopes															
	Vallers	60	L	0-2	5	P	C	.28	.28	4L	86	IVw	55B	10	Wet	Subirrigated
	Hamerly	30	L	0-2	5	SP	C	.24	.24	4L	86	Ile	55B	2KK	Subirrigated	Limy Subirrigated
VgA	Vang loam, 0 to 2 percent slopes															
	Vang	85	L	0-2	4	W	B	.24	.24	6	48	Ills	55B	6G	Droughty Loam	Loamy
W	Water															
	Water	100														
WaA	Williams-Bowbells loams, 0 to 3 percent slopes															
	Williams	50	L	0-3	5	W	B	.28	.28	6	48	Ilc	53B	3	Loam	Loamy
	Bowbells	40	L	0-3	5	MW	B	.24	.24	6	48	Ilc	53B	1	Overflow	Loamy Overflow
WaB	Williams-Bowbells loams, 1 to 6 percent slopes															
	Williams	60	L	3-6	5	W	B	.28	.28	6	48	Ile	53B	3	Loam	Loamy
	Bowbells	30	L	1-3	5	MW	B	.24	.24	6	48	Ilc	53B	1	Overflow	Loamy Overflow
WbA	Williams-Bowbells-Tonka complex, 0 to 3 percent slopes															
	Williams	45	L	0-3	5	W	B	.28	.28	6	48	Ilc	53B	3	Loam	Loamy
	Bowbells	25	L	0-3	5	MW	B	.24	.24	6	48	Ilc	53B	1	Overflow	Loamy Overflow
	Tonka	20	SIL	0-1	5	P	C/D	.37	.37	6	48	IVw	53B	10	Wet	Wet Meadow
WbB	Williams-Bowbells-Tonka complex, 0 to 6 percent slopes															
	Williams	50	L	3-6	5	W	B	.28	.28	6	48	Ile	53B	3	Loam	Loamy
	Bowbells	25	L	1-3	5	MW	B	.24	.24	6	48	Ilc	53B	1	Overflow	Loamy Overflow
	Tonka	20	SIL	0-1	5	P	C/D	.37	.37	6	48	IVw	53B	10	Wet	Wet Meadow
WcA	Williams-Niobell loams, 0 to 3 percent slopes															
	Williams	55	L	0-3	5	W	B	.28	.28	6	48	Ilc	53B	3	Loam	Loamy
	Niobell	30	L	0-3	5	MW	C	.32	.32	6	48	Ills	53B	4	Clayey Subsoil	Clayey
WcB	Williams-Niobell loams, 3 to 6 percent slopes															
	Williams	60	L	3-6	5	W	B	.28	.28	6	48	Ile	53B	3	Loam	Loamy
	Niobell	30	L	2-6	5	MW	C	.32	.32	6	48	Ille	53B	4	Clayey Subsoil	Clayey
WdA	Williams-Niobell-Tonka complex, 0 to 3 percent slopes															
	Williams	45	L	0-3	5	W	B	.28	.28	6	48	Ilc	53B	3	Loam	Loamy
	Niobell	25	L	0-3	5	MW	C	.32	.32	6	48	Ills	53B	4	Clayey Subsoil	Clayey
	Tonka	20	SIL	0-1	5	P	C/D	.37	.37	6	48	IVw	53B	10	Wet	Wet Meadow
WhD	Williams-Vida loams, 6 to 15 percent slopes															
	Williams	50	L	6-9	5	W	B	.28	.28	6	48	Ile	53B	3	Loam	Loamy
	Vida	40	L	9-15	5	W	B	.28	.28	6	48	Ive	53B	3	Loam	Loamy

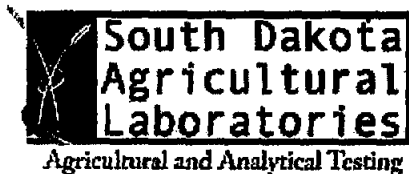
Table 1 - Soil Interpretive Groups

Spink County, South Dakota

[This report shows only the major soils in each map unit]

Map unit symbol	Map unit name and components	Comp. pct.	Surf. tex.	Slope	T	Drain. class	Hyd. grp.	Kw	Kf	WEG	WEI	Cap. class nirr.	MLRA	CTSG	Forage suitability group name	Ecological site/RANGE SITE* (see footnote)
WmB	Williams-Zahl-Bowbells loams, 1 to 6 percent slopes															
	Williams	50	L	3-6	5	W	B	.28	.28	6	48	Ile	53B	3	Loam	Loamy
	Zahl	25	L	3-6	5	W	B	.28	.28	4L	86	Ile	53B	8K	Limy Upland	Thin Loamy
WmC	Bowbells	20	L	1-3	5	MW	B	.24	.24	6	48	Ile	53B	1	Overflow	Loamy Overflow
	Williams-Zahl-Bowbells loams, 2 to 9 percent slopes															
	Williams	45	L	6-9	5	W	B	.28	.28	6	48	Ile	53B	3	Loam	Loamy
Wn	Zahl	30	L	6-9	5	W	B	.28	.28	4L	86	IVe	53B	8K	Limy Upland	Thin Loamy
	Bowbells	20	L	3-6	5	W	B	.24	.24	6	48	Ile	53B	1	Loam	Loamy
	Winship-Tonka silt loams, 0 to 1 percent slopes															
Wo	Winship	60	SIL	0-1	5	SP	C	.37	.37	6	48	Ilw	55B	2	Subirrigated	Loamy Overflow
	Tonka	30	SIL	0-1	5	P	C/D	.37	.37	6	48	IVw	55B	10	Wet	Wet Meadow
	Winship-Tonka silt loams, till substratum, 0 to 1 percent slopes															
Ws	Winship	60	SIL	0-1	5	SP	C	.37	.37	6	48	Ilw	55B	2	Subirrigated	Loamy Overflow
	Tonka	30	SIL	0-1	5	P	C/D	.37	.37	6	48	IVw	55B	10	Wet	Wet Meadow
	Woonsocket-Whitelake fine sandy loams, 0 to 2 percent slopes															
Wt	Woonsocket	50	FSL	0-2	5	MW	B	.20	.20	3	86	Ille	55C	5	Droughty Loam	SANDY
	Whitelake	35	FSL	0-2	2	MW	B	.24	.24	3	86	IVe	55C	9L	Claypan	CLAYPAN
	Worthing silty clay loam, 0 to 1 percent slopes															
Ww	Worthing	90	SICL	0-1	5	VP	D	.37	.37	4	86	Vw	55C	10	Not suited	Thin Loamy
	Worthing silty clay loam, ponded															
	Worthing	90	SICL	0-1	5	VP	D	.37	.37	8	0	Vllw	55C	10	Not suited	Thin Loamy
ZaE	Zahill loam, 15 to 40 percent slopes															
ZbC	Zahill	85	L	15-40	5	W	C	.32	.32	4L	86	Vlle	53B	10	Not suited	Thin Loamy
ZbD	Zahl-Max loams, 6 to 9 percent slopes															
	Zahl	50	L	6-9	5	W	B	.28	.28	4L	86	IVe	53B	8K	Limy Upland	Thin Loamy
	Max	40	L	6-9	5	W	B	.28	.28	6	48	Ille	53B	3	Loam	Loamy
ZgD	Zahl-Max loams, 9 to 20 percent slopes															
	Zahl	55	L	15-20	5	W	B	.28	.28	4L	86	Vlle	53B	10	Limy Upland	Thin Loamy
	Max	35	L	9-15	5	W	B	.28	.28	6	48	IVe	53B	3	Loam	Loamy
ZgD	Zell-Great Bend silt loams, 6 to 25 percent slopes															
	Zell	55	SIL	9-25	5	W	B	.32	.32	4L	86	Vle	55B	10	Limy Upland	Thin Loamy
	Great Bend	35	SIL	6-9	5	W	B	.32	.32	6	48	Ille	55B	3	Loam	Loamy

Performed By:



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NOV 26 2012

WATER RIGHTS
PROGRAM

1006 32nd Avenue
Brookings Biospace 105
Brookings, SD 57006-4728
Telephone (605)692-7325
Fax (605)692-7326
Web <http://www.sdaglabs.com>

Report Date: 11/15/2012

Preliminary Report

Report ID: 20121025-010(1572)-1

Report Of Analysis

Daelyn Dirksen

40580 156th St
Conde, SD 57434

Received: October 24, 2012

Reported: November 15, 2012

Package #: 20121025-010

12S10945 Dugout Water

	<u>Result</u>
Boron mg/L (ppm)	0.205
Calcium mg/L (ppm)	Pending
Calcium (meq/L) meq/L	Pending
Magnesium mg/L (ppm)	Pending
Magnesium (meq/L) meq/L	Pending
Potassium mg/L (ppm)	Pending
Potassium (meq/L) meq/L	Pending
Sodium mg/L (ppm)	331
Sodium (meq/L) meq/L	14.4
Chloride mg/L (ppm)	37.7
Chloride (meq/L) meq/L	1.06
Nitrate-Nitrogen mg/L (ppm)	0.426
Nitrate-Nitrogen (meq/L) meq/L	0.0304
Sulfate mg/L (ppm)	1060
Sulfate (meq/L) meq/L	22.1
Alkalinity mg CaCO ₃ /L	Pending
Alkalinity (meq/L) meq/L	Pending
Electrical Conductivity umhos/cm	2600
Electrical Conductivity (dS/m) dS/m	2.60
Bicarbonate mg/L (ppm)	Pending
Bicarbonate (meq/L) meq/L	Pending
Carbonate mg/L (ppm)	Pending
Carbonate (meq/L) meq/L	Pending
Bower Adjusted SAR	Pending
Sodium Adsorption Ratio (SAR)	Pending

Reviewed By: Regina Wixon Ph.D.

The analytical results on this report reflect what was found in the laboratory sample as it was received at the laboratory. Guidelines on taking a representative sample are available at <http://www.sdaglabs.com/index.php/guides>.

End of Report

RECEIPT

WATER RIGHTS PROGRAM

South Dakota Department of Environment and Natural Resources

Date 11/27, 20 12

RECEIVED OF Daelyn Dirksen 40580 156th St Conde SD 57434

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	750	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. _____	200	00
Fee for Filing Transfer Form _____		
Fee for _____		
Fee for Issuing New Well Driller's License No. _____ for C.Y. _____		
Fee for Renewal of Well Driller's License No. _____ for C.Y. _____		
Fee for Issuing Well Pump Installer's License No. _____ for C.Y. _____		
Fee for Renewal of Well Pump Installer's License No. _____ for C.Y. _____		
(Any Other Work Provided by Law)	TOTAL	950 00

No. **05709**

By

David Erbelle
Chief Engineer



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

PMB 2020
JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182

denr.sd.gov

November 27, 2012

Daelyn E Dirksen
40580 156th St
Conde SD 57434

Dear Mr. Dirksen:

Thank you for submitting the *Application for a Permit to Appropriate Water* for irrigation in Spink County. In order to complete the application, the following is required.

- The map submitted with the application was illegible. Enclosed is aerial photo map of Section 12-T119N-R61W. Please outline the acreage to be irrigated and mark the location of the dugouts or stock dam (designate as either a dugout or dam).
- Enclosed is the Form 2A, Supplemental Information. If one of your water sources is a stock dam, as indicated on the application, then it will be necessary to complete Item No. 4 Water Storage Dams for proposed construction and capacity. Please be aware dams over 25 feet in height or store over 50 acre-feet of water need to meet dam safety requirements.

If you have any questions, please contact me.

Sincerely,

Karen Schlaak

Karen Schlaak
Water Rights Program
605 773-3352
karen.schlaak@state.sd.us

enclosures



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

**RECOMMENDATION OF CHIEF ENGINEER FOR WATER PERMIT
APPLICATION NO. 7564-3, Daelyn E Dirksen**

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. 7564-3, Daelyn E Dirksen, 40580 156th Street, Conde SD 57434.

The Chief Engineer is recommending APPROVAL of Application No. 7564-3 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. Water Permit No. 7564-3 authorizes two dugouts with a total storage capacity of 2 acre feet of water and sufficient water annually to maintain the water level in the dugouts.
2. This Permit is approved subject to the irrigation water use questionnaire being submitted each year.

See report on application for additional information.

Garland Erbele, Chief Engineer
January 23, 2013

NOTE: Dugouts with a storage capacity of 2 acre feet of water may not be sufficient for irrigating the requested 120 acres. In addition, the dugout may not be a reliable source of water, especially during dry climatic conditions.

REPORT ON WATER PERMIT APPLICATION NO. 7564-3

**Daelyn Dirksen
40580 156th Street
Conde, SD 57434
January 14, 2013**

Water Permit Application No. 7564-3, Daelyn Dirksen, proposes to appropriate 1.67 cubic feet per second (cfs) of water from two dugouts with a combined storage capacity of approximately 2.0 acre-feet of water located in the NE $\frac{1}{4}$ SW $\frac{1}{4}$ and the SE $\frac{1}{4}$ SE $\frac{1}{4}$ Section 12 to irrigate 120 acres located in the S $\frac{1}{2}$ Section 12; all in T119N-R61W. The proposed project is located approximately a mile and a half south of Conde, SD in Spink County. The proposed period of annual use is April 1 through October 31.

Project Review

The applicant proposes to use two dugouts for the water source. The dugouts will be allowed to fill with incidental surface water runoff and one dugout is located on an unnamed intermittent stream. Water will then be pumped from the dugouts to irrigate two separate parcels of land. There are Location Notices for the dugouts dated 1964 and 1974.

The United States Geological Survey (USGS) has designated this waterway as an intermittent stream. Intermittent streams are streams that flow only at certain times when they receive water from springs or from some surface water source such as melting snow or runoff from rainfall. These streams can carry water a considerable portion of the time, but cease to flow occasionally or seasonally because bed seepage and evapotranspiration exceed the available water supply. During dry periods, intermittent streams cannot be considered a reliable source of water.

Review of Existing Water Rights

The nearest permitted user is upstream about one mile east of the applicants proposed project. Water Right No. 5472-3 authorizes the storage of an initial 60 acre-feet of water plus an additional 110 acre-foot to offset evapotranspiration and maintain the pool level. Interference with existing water rights is not a concern.

Conclusion

1. Water Permit Application No. 7564-3, Daelyn Dirksen, proposes to appropriate 1.67 cfs of water from two existing dugouts with a combined storage capacity of approximately 2.0 acre-feet of water located in the NE $\frac{1}{4}$ SW $\frac{1}{4}$ and the SE $\frac{1}{4}$ SE $\frac{1}{4}$ Section 12 to irrigate 120 acres located in the S $\frac{1}{2}$ Section 12; all in T119N-R61W.
2. The USGS has designated this waterway as an intermittent stream that flows only at certain times when they receive water from springs or from some surface water source such as melting snow or runoff from rainfall, but which cease to flow occasionally or seasonally because bed seepage and evapotranspiration exceed the available water supply. During dry periods, intermittent streams cannot be considered a reliable source of water.
3. There should be no interference with existing water rights/permits.

Mike DeFea

Mike DeFea
Natural Resources Engineer II
DENR, Water Rights Program

Reviewed By:

Mark Rath

Mark Rath
Natural Resources Engineering III
DENR, Water Rights Program

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JAN 31 2013

WATER RIGHTS
PROGRAM

Affidavit of Publication

STATE OF SOUTH DAKOTA,
County of Spink: ss.

I, Mark E. Davis, of said County & State, being first duly sworn on oath, say that THE REDFIELD PRESS is a legal weekly newspaper as defined in Sec. 65.0508 South Dakota Code 1939, as amended by Chapter 298 of the Session of Laws of 1939, printed and published in the English language in the City of Redfield, in said County and State, by THE REDFIELD PRESS, and has been such newspaper during the time hereinafter mentioned, and that I Mark E. Davis, the undersigned, am Publisher of said newspaper in charge of the advertising department thereof, and have personal knowledge of all the facts stated in this affidavit, and that the legal or official notice entitled:

#127 Notice

A printed copy of which is hereto attached, was printed and published in said newspaper in 1 issue, to wit: The first publication being made on January 30th, that Twenty-two and .75/100 Dollars, insures to the benefit of the publisher of THE REDFIELD PRESS, that no agreement or understanding for the division thereof has been made with any other person, and that no part thereof has been agreed to be paid to any person whomsoever.



Subscribed and sworn to before me this 30th day of January, 2013.


Notary Public, South Dakota

My commission expires 04/06/2016.

Notice

#127

NOTICE OF APPLICATION NO. 7564-3 TO APPROPRIATE WATER

Notice is given that Daelyn E Dirksen, 40580 156th St, Conde SD 57434 has filed an application for a water permit to appropriate 1.67 cubic feet of water per second from two dugouts (approximately 2 acre-foot storage capacity) located in NE 1/4 SW 1/4 and the SE 1/4 SE 1/4 Section 12 for irrigation of 120 acres located in the S 1/2 Section 12; all in T119N-R61W.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 7564-3 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 this 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 this 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 February 11, 2013.

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.

Steven M. Pirner, Secretary
Department of Environment and
Natural Resources
Published at an approximate cost of
\$22.75. (Jan 30)

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FEB - 1 2013

Form 8

WATER RIGHTS
PROGRAM

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)
County of Brown) SS

I, May Bask

certify that the attached printed Notice was
taken

from the Aberdeen News

printed and published in Aberdeen

County of Brown and

state of South Dakota. The notice was
published

in the newspaper on the following date:

January 30, 2013

Cost of Printing 43.75

May Bask
(Signature)

Adv Betty Spear
(Title)

1/30/2013
(Date Signed)

(No. 1512003)
(Jan. 30, 2013 -1T)

NOTICE OF APPLICATION NO. 7564-3
to Appropriate Water

Notice is given that Daelyn E Dirksen, 40580 156th St, Conde SD 57434 has filed an application for a water permit to appropriate 1.67 cubic feet of water per second from two dugouts (approximately 2 acre-feet storage capacity) located in NE 1/4 SW 1/4 and the SE 1/4 SE 1/4 Section 12 for irrigation of 120 acres located in the S 1/2 Section 12; all in T119N-R61W.

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DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

PMB 2020
JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182
denr.sd.gov

January 24, 2013

Redfield Press
PO Box 440
Redfield SD 57469

ATTENTION: Legal Public Notice

Enclosed is a Notice on Application No. 7564-3 to Appropriate Water. Please publish the notice once on January 30, 2013. The text of the notice can be e-mailed to your paper by contacting Karen Schlaak at (605) 773-3352.

The applicant must verify to you that the notice is to be published and arrange for payment. **Please BILL the APPLICANT for the cost of publication.** The APPLICANT is Daelyn E Dirkson, 40580 156th St., Conde SD 57434 (Ph # 605-382-5689).

Please send the Water Rights Program an affidavit or the enclosed Proof of Publication form immediately.

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
Eric Gronlund
Natural Resources Engineer
605 773-3352

enclosures



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

PMB 2020
JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182
denr.sd.gov

January 24, 2013

American News
PO Box 4430
Aberdeen SD 57402

ATTENTION: Legal Public Notice

Enclosed is a Notice on Application No. 7564-3 to Appropriate Water. Please publish the notice once on January 30, 2013. The text of the notice can be e-mailed to your paper by contacting Karen Schlaak at (605) 773-3352.

The applicant must verify to you that the notice is to be published and arrange for payment. **Please BILL the APPLICANT for the cost of publication.** The APPLICANT is Daelyn E Dirkson, 40580 156th St., Conde SD 57434 (Ph # 605-382-5689).

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Sincerely,

Eric Gronlund
Natural Resources Engineer
605 773-3352

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DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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PIERRE, SOUTH DAKOTA 57501-3182
denr.sd.gov

NOTE: TO BE SURE OF PUBLICATION ON
THE CORRECT DATE, CONTACT
THE NEWSPAPER(S) RIGHT AWAY.

January 24, 2013

Daelyn E Dirkson
40580 156th St
Conde SD 57434

Dear Mr. Dirkson:

Water Permit Application No. 7564-3 for irrigation use has been examined and found to comply with the South Dakota Water Laws and applicable rules. A notice has been sent to the Redfield Press printed at Redfield SD (Ph # 605-472-0822) and the American News printed at Aberdeen SD (Ph # 605-225-4100). You will need to contact the newspaper(s) and authorize publication of this notice. For your information, a copy of the notice, the recommendation of the Chief Engineer and report on the application are enclosed. Please review the notice prior to publication and notify this office, if you have any corrections or questions.

Be sure to contact the above newspaper(s) to authorize publication of your Notice and to arrange for payment. Early contact with the paper(s) can eliminate delays. Upon receiving authorization from you, the publisher has been instructed to publish your notice. The newspaper has also been instructed to send us the Proof of Publication. We must receive Proof of Publication before action can be taken on the application.

Sincerely,

Eric Gronlund
Natural Resources Engineer
(605) 773-3352

enclosures

NOTE: If you plan to contest any part of the Chief Engineer's recommendation, you must file a petition pursuant to the procedures outlined in the attached notice of hearing. The Water Management Board will then consider your concerns during a hearing on the application.

Instruction to Newspaper - Publish the Notice on January 30, 2013. The applicant is responsible for payment. The text of the notice can be e-mailed to your paper by contacting Karen Schlaak at (605) 773-3352 or email: Karen.schlaak@state.sd.us.

NOTICE OF APPLICATION NO. 7564-3 to Appropriate Water

Notice is given that Daelyn E Dirksen, 40580 156th St, Conde SD 57434 has filed an application for a water permit to appropriate 1.67 cubic feet of water per second from two dugouts (approximately 2 acre-feet storage capacity) located in NE 1/4 SW 1/4 and the SE 1/4 SE 1/4 Section 12 for irrigation of 120 acres located in the S 1/2 Section 12; all in T119N-R61W.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 7564-3 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 this 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 this 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 February 11, 2013.

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. Steven M. Pirner, Secretary, Department of Environment and Natural Resources.

Published once at the total approximate cost of _____.



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

PMB 2020
JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182

denr.sd.gov

MAR 04 2013

Daelyn E Dirksen
40580 156th St
Conde SD 57434

Dear Mr. Dirksen:

Enclosed is Water Permit No. 7564-3-3 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.

Sincerely,

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

enclosures



7564-3
DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

January 24, 2014

NOTICE

TO: DAELYN E DIRKSEN, 40580 156TH ST, CONDE, SD 57434

FROM: Ron Duvall, Natural Resources Engineer
for Garland Erbele, Chief Engineer
Water Rights Program

SUBJECT: Reporting Requirement for 2013 Irrigation Questionnaire(s)

Our records indicate that the 2013 Irrigation Questionnaire(s) has not been submitted for Permit No(s) 7564-3. The request for the Questionnaire was dated October 18, 2013. The Water Management Board has directed that owners of water permits who have not submitted the 2013 Irrigation Questionnaire(s) be given notice of permit violation and a hearing to be held by the Board. The hearing is to determine what action is to be taken for violation of Water Permit No(s) 7564-3 qualification:

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

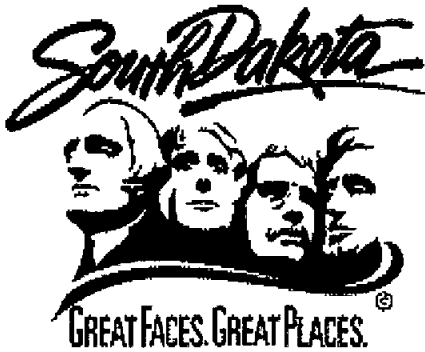
The hearing will be held at **9:00 am, March 6, 2014** in the Floyd Matthew Training Center, Joe Foss Building, 523 E Capitol Avenue, Pierre, SD and will be conducted pursuant to SDCL 46-1-12, 46-1-14, 46-2-9, 46-2-11 and 46-2-17. These are contested case hearings pursuant to Chapter 1-26. According to SDCL 46-1-12, the Board may suspend a permit for a period of up to one year for the first violation of a permit qualification or up to three years for a second violation, or cancel a permit for a third violation. Following the hearing, the Water Management Board can:

1. Suspend or cancel Permit No(s) 7564-3 in accordance with applicable provisions of SDCL 46-1-12;
2. Postpone any action; or
3. Take no action.

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

If the questionnaire(s) is (are) received in this office on/or before **March 3, 2014**, you will no longer be in violation of your permit and your name will be removed from the Board agenda. Enclosed are additional questionnaire(s) for your use. If you have questions or need assistance, please contact Genny McMath at (605) 773-3352 or email at genny.mcmath@state.sd.us. If you prefer, you can complete the questionnaire online at the following link: <http://denr.sd.gov/iq.aspx>

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



**DEPARTMENT of ENVIRONMENT
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January 29, 2014

7564-3

Daelyn E Dirksen
40580 156th St
Conde SD 57434

Dear Mr. Dirksen:

I am writing to acknowledge receipt of the information for your 2013 irrigation questionnaire. I completed a questionnaire for you based on our telephone conversation.

You may disregard the January 24, 2014 "Notice" concerning reporting requirements for Water Permit No. 7564-3. The information was received in our office prior to the Water Management Board meeting and your name has been deleted from the agenda.

If you have any questions, please contact me.

Sincerely,

A handwritten signature in cursive script that reads "Genny McMath".

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



7564-3
DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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PIERRE SOUTH DAKOTA 57501-3182
www.state.sd.us/denr

January 15, 2016

NOTICE

TO: DAELYN E DIRKSEN, 40580 156TH ST, CONDE, SD 57434

FROM: Ron Duvall, Natural Resources Engineer
for Jeanne Goodman, Chief Engineer
Water Rights Program

SUBJECT: Reporting Requirement for 2015 Irrigation Questionnaire(s)

Our records indicate your 2015 Irrigation Questionnaire(s) has not been submitted for Permit No(s) 7564-3. The request for the Questionnaire was dated October 23, 2015. The Water Management Board has directed that owners of water permits who have not submitted the 2015 Irrigation Questionnaire(s) be given notice of permit violation and a hearing to be held by the Board. The hearing is to determine what action is to be taken for violation of Water Permit No(s) 7564-3 qualification:

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

The hearing will be held at **Thursday, March 3, 2016 at 9:30 am (Central Time)** in the Floyd Matthew Training Center, Joe Foss Building, 523 E Capitol Avenue, Pierre, SD and will be conducted pursuant to SDCL 46-1-12, 46-1-14, 46-2-9, 46-2-11 and 46-2-17. These are contested case hearings pursuant to Chapter 1-26. According to SDCL 46-1-12, the Board may suspend a permit for a period of up to one year for the first violation of a permit qualification or up to three years for a second violation, or cancel a permit for a third violation. Following the hearing, the Water Management Board can:

1. Suspend or cancel Permit No(s) 7564-3 in accordance with applicable provisions of SDCL 46-1-12;
2. Postpone any action; or
3. Take no action.

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

If the questionnaire(s) is (are) received in this office before the **March 3, 2016** hearing you will no longer be in violation of your permit and your name will be removed from the Board agenda. Enclosed are additional questionnaire(s) for your use. If you have questions or need assistance, please contact Genny McMath at (605) 773-3352 or email at genny.mcmath@state.sd.us. If you prefer, you can complete the questionnaire online at the following link: <http://denr.sd.gov/iq.aspx>

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



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

denr.sd.gov

February 9, 2016

7564-3

Daelyn E Dirksen
40580 156th St
Conde SD 57434

Dear Mr. Dirksen:

I am writing to acknowledge receipt of your 2015 irrigation questionnaire.

You may disregard the January 15, 2016, "Notice" concerning reporting requirements for Water Permit No. 7564-3. The information was received in our office prior to the Water Management Board meeting and your name has been deleted from the agenda.

If you have any questions, please contact me.

Sincerely,

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



7564-3
DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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PIERRE SOUTH DAKOTA 57501-3182
www.state.sd.us/denr

January 25, 2019

NOTICE

TO: DAELYN E DIRKSEN, 40580 156TH ST, CONDE, SD 57434

FROM: Ron Duvall, Natural Resources Engineer
for Jeanne Goodman, Chief Engineer
Water Rights Program

SUBJECT: Reporting Requirement for 2018 Irrigation Questionnaire(s)

Our records indicate your 2018 Irrigation Questionnaire(s) has not been submitted for Permit No(s) 7564-3. The request for the Questionnaire was dated October 30, 2018. The Water Management Board has directed that owners of water permits who have not submitted the 2018 Irrigation Questionnaire(s) be given notice of permit violation and a hearing to be held by the Board. The hearing is to determine what action is to be taken for violation of Water Permit No(s) 7564-3 qualification:

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

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

1. Suspend or cancel Permit No(s) 7564-3 in accordance with applicable provisions of SDCL 46-1-12;
2. Postpone any action; or
3. Take no action.

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

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

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

7564-3



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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PIERRE SOUTH DAKOTA 57501-3182
www.denr.sd.gov

February 6, 2019

7564-3

Daelyn E Dirksen
40580 156th St
Conde SD 57434

Dear Mr. Dirksen:

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

You may disregard the January 25, 2019, "Notice" concerning reporting requirements for Water Permit No. 7564-3. The information was received in our office prior to the Water Management Board meeting and your name has been deleted from the agenda.

If you have any questions, please contact me.

Sincerely,

A handwritten signature in black ink that reads "Genny McMath". The signature is written in a cursive, flowing style.

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

7564-3



DEPARTMENT of AGRICULTURE
and NATURAL RESOURCES
JOE FOSS BUILDING
523 E. CAPITOL AVE
PIERRE SD 57501-3182
danr.sd.gov

January 20, 2023

NOTICE

TO: DAELYN E DIRKSEN, 40580 156TH ST, CONDE, SD 57434

FROM: Ron Duvall, Water Rights Permitting Administrator
for Eric Gronlund, Chief Engineer
Water Rights Program

SUBJECT: Reporting Requirement for 2022 Irrigation Questionnaire(s)

Our records indicate your 2022 Irrigation Questionnaire(s) has not been submitted for Permit No(s) 7564-3. The request for the Questionnaire was dated October 21, 2022. The Water Management Board has directed owners of water permits who have not submitted the 2022 Irrigation Questionnaire(s) be given notice of permit violation and a hearing to be held by the Board. The hearing is to determine what action is to be taken for violation of Water Permit No(s) 7564-3 qualification:

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

The hearing will be held at **Wednesday, March 8, 2023 at 9:30 am (Central Time)** in the Floyd Matthew Training Center, Joe Foss Building, 523 E Capitol Avenue, Pierre, SD and will be conducted pursuant to SDCL 46-1-12, 46-1-14, 46-2-9, 46-2-11 and 46-2-17. These are contested case hearings pursuant to Chapter 1-26. According to SDCL 46-1-12, the Board may suspend a permit for a period of up to one year for the first violation of a permit qualification or up to three years for a second violation or cancel a permit for a third violation. Following the hearing, the Water Management Board can:

1. Suspend or cancel Permit No(s) 7564-3 in accordance with applicable provisions of SDCL 46-1-12;
2. Postpone any action; or
3. Take no action.

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

If the questionnaire(s) is (are) received in this office before the **March 8, 2023** hearing you will no longer be in violation of your permit and your name will be removed from the Board agenda. Enclosed are additional questionnaire(s) for your use. If you have questions or need assistance, please contact Genny McMath at (605) 773-3352 or email at genny.mcmath@state.sd.us. **If you prefer, you can complete the questionnaire online at the following link: <https://danr.sd.gov/iq> using this password: HGGSHZ**

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



**DEPARTMENT of AGRICULTURE
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523 E. CAPITOL AVE
PIERRE SD 57501-3182
danr.sd.gov

February 2, 2023

7564-3

Daelyn E Dirksen
40580 156th St
Conde SD 57434

Dear Mr. Dirksen:

I am writing to acknowledge receipt of your 2022 irrigation questionnaire.

You may disregard the January 20, 2023, "Notice" concerning reporting requirements for Water Permit No. 7564-3. The information was received in our office prior to the Water Management Board meeting and your name has been deleted from the agenda.

If you have any questions, please contact me.

Sincerely,

Genny McMath
Water Rights Program
605 773-3352
Genny.mcmath@state.sd.us



DEPARTMENT of AGRICULTURE
and NATURAL RESOURCES
JOE FOSS BUILDING
523 E. CAPITOL AVE
PIERRE SD 57501-3182
danr.sd.gov

January 19, 2024

NOTICE

TO: DAELYN E DIRKSEN, 40580 156TH ST, CONDE, SD 57434

FROM: Ron Duvall, Engineer III
for Eric Gronlund, Chief Engineer
Water Rights Program

SUBJECT: Reporting Requirement for 2023 Irrigation Questionnaire(s)

Our records indicate your 2023 Irrigation Questionnaire(s) has not been submitted for Permit No(s) 7564-3. The request for the Questionnaire was dated October 20, 2023. The Water Management Board has directed owners of water permits who have not submitted the 2023 Irrigation Questionnaire(s) be given notice of permit violation and a hearing to be held by the Board. The hearing is to determine what action is to be taken for violation of Water Permit No(s) 7564-3 qualification:

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

The hearing will be held at **Wednesday, March 6, 2024 at 9:30 am (Central Time)** in the Floyd Matthew Training Center, Joe Foss Building, 523 E Capitol Avenue, Pierre, SD and will be conducted pursuant to SDCL 46-1-12, 46-1-14, 46-2-9, 46-2-11 and 46-2-17. These are contested case hearings pursuant to Chapter 1-26. According to SDCL 46-1-12, the Board may suspend a permit for a period of up to one year for the first violation of a permit qualification or up to three years for a second violation or cancel a permit for a third violation. Following the hearing, the Water Management Board can:

1. Suspend or cancel Permit No(s) 7564-3 in accordance with applicable provisions of SDCL 46-1-12;
2. Postpone any action; or
3. Take no action.

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

If the questionnaire(s) is (are) received in this office before the **March 6, 2024** hearing you will no longer be in violation of your permit and your name will be removed from the Board agenda. Enclosed are additional questionnaire(s) for your use. If you have questions or need assistance, please contact Amanda Dewell at (605) 773-3352 or email at amanda.dewell@state.sd.us. **If you prefer, you can complete the questionnaire online at the following link: <https://danr.sd.gov/iq> using this password: FLPZDB**

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



**DEPARTMENT of AGRICULTURE
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523 E. CAPITOL AVE
PIERRE SD 57501-3182
danr.sd.gov

February 21, 2024

7564-3

Daelyn Dirksen
40580 156th St
Conde SD 57434

Dear Mr. Dirksen:

I am writing to acknowledge the receipt of your 2023 irrigation questionnaire(s).

You may disregard the January 19, 2024, "Notice" concerning the reporting requirements for Water Permit No(s). 7564-3. The information was received prior to the March 6, 2024, Water Management Board meeting and this permit number has been removed from the agenda.

If you have any questions, please contact me.

Sincerely,

Amanda Dewell
Water Rights Program
605 773-3352
Amanda.Dewell@state.sd.us



**DEPARTMENT of AGRICULTURE
and NATURAL RESOURCES**
JOE FOSS BUILDING
523 E. CAPITOL AVE
PIERRE SD 57501-3182
danr.sd.gov

January 14, 2025

NOTICE

TO: DAELYN E DIRKSEN, 40580 156TH ST, CONDE, SD 57434

FROM: Ron Duvall, Engineer III
for Eric Gronlund, Chief Engineer
Water Rights Program

SUBJECT: Reporting Requirement for 2024 Irrigation Questionnaire(s)

Our records indicate your 2024 Irrigation Questionnaire(s) has not been submitted for Permit No(s) 7564-3. The request for the Questionnaire was dated October 23, 2024. The Water Management Board has directed owners of water permits who have not submitted the 2024 Irrigation Questionnaire(s) be given notice of permit violation and a hearing to be held by the Board. The hearing is to determine what action is to be taken for violation of Water Permit No(s) 7564-3 qualification:

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

The hearing will be held on **Wednesday, March 5, 2025, at 9:30 am (Central Time)** in the Floyd Matthew Training Center, Joe Foss Building, 523 E Capitol Avenue, Pierre, SD and will be conducted pursuant to SDCL 46-1-12, 46-1-14, 46-2-9, 46-2-11 and 46-2-17. These are contested case hearings pursuant to Chapter 1-26. According to SDCL 46-1-12, the Board may suspend a permit for a period of up to one year for the first violation of a permit qualification or up to three years for a second violation or cancel a permit for a third violation. Following the hearing, the Water Management Board can:

1. Suspend or cancel Permit No(s) 7564-3 in accordance with applicable provisions of SDCL 46-1-12;
2. Postpone any action; or
3. Take no action.

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

If the questionnaire(s) is (are) received in this office before the **March 5, 2025**, hearing you will no longer be in violation of your permit and your name will be removed from the Board agenda. Enclosed are additional questionnaire(s) for your use. If you have questions or need assistance, please contact Amanda Dewell at (605) 773-3352 or email at amanda.dewell@state.sd.us. **If you prefer, you can complete the questionnaire online at the following link: <https://danr.sd.gov/iq> using this password: **BQXPLM****

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



**DEPARTMENT of AGRICULTURE
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523 E. CAPITOL AVE
PIERRE SD 57501-3182
danr.sd.gov

February 19, 2025

7564-3

Daelyn Dirksen
40580 156th St
Conde SD 57434

Dear Mr. Dirksen:

I am writing to acknowledge the receipt of your 2024 irrigation questionnaire(s).

You may disregard the January 14, 2025, "Notice" concerning the reporting requirements for Water Permit No(s). 7564-3. The information was received prior to the March 5, 2025, Water Management Board meeting and the above listed permit number(s) have been removed from the agenda.

If you have any questions or concerns, please contact me.

Sincerely,

Amanda Dewell
Permitting Administrator
Water Rights Program
605 773-3352
Amanda.Dewell@state.sd.us