

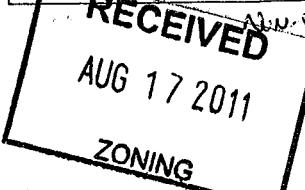


360009000

2011 Onsite Septic System Application

Becker County Planning & Zoning
915 Lake Ave, Detroit Lakes, MN 56501
Phone (218)-846-7314; Fax (218)-846-7266

PARCEL	
APP	SEPTIC
YEAR	2011
SCANNED	



1. PROPERTY DATA (as it appears on the tax statement, purchase agreement or deed)

Parcel Number(s) of property where the system will be installed: 360009000Is this a split of an existing property? Yes No (If yes and a parcel number has not yet been assigned, indicate the main parcel number from which the new parcel was split.) Section 2 Township 142 Range 41 Township Name White Earth

Legal Description _____

Is the property located within 1000 feet of a lake, 300 feet of a river or 50 ft of a wetland? X Yes _____ No
If so, which one: lake river wetland (circle correct water body) Lake/River Name 1600' unnamed wet landProject Address: 390 St. Ogema, MN 56569

2. PROPERTY OWNER INFORMATION (as it appears on the tax statement, purchase agreement or deed)

Owner's First Name Kelly Riggie Owner's Last Name Riggie

3. DESIGNER/INSTALLER INFORMATION

Designer's Company Name Dan Schlaudraff SER Designer's Name Dan SchlaudraffLicense # 410 Address 20893 Oakside TRL D-1 Phone Number 218-647-6247Installer's Company Name Lunde Bladet Brand Installer's Name Jason LundeLicense # _____ Address 111 Co. Hwy 3B Flora MN Phone Number 218-567-05704. SYSTEM DESIGN INFORMATION U of M worksheets and site plan must accompany this form. Worksheets may be found at: <http://septic.umn.edu/>Size of All Tanks to be installed 1500 1/2 gal Septic Tank _____ gal Tank with _____ gal Lift Station (2 compartment tank)
_____ gal Lift Station (separate tank) _____ gal Holding Tank _____ Existing tank to be used
_____ gal Holding Tank with Privy _____ pit privyTotal Number of tanks to be installed in this system 1 (This # will be reported to MPCA at end of year.)If using chamber, Brand & Model of Chamber Q-4 STD. # of chambers to be installed 104

	TANK	SETBACKS	DRAINFIELD	
Distance to Well	<u>No well</u>	<u>ON SITE</u>		<input checked="" type="checkbox"/> install a system on a vacant lot (never had structures on the property) (new)
Distance to Building	<u>30'</u>	<u>60'</u>		<input type="checkbox"/> install a system on a lot where the structure has been removed and being rebuilt (replacement)
Distance to Property Line	<u>>100'</u>	<u>>100'</u>		<input type="checkbox"/> install an additional system on the property (new)
Distance to OHW of Lake	<u>N/A</u>	<u>N/A</u>		<input type="checkbox"/> replace/repair existing system (failing)
Distance to Pressure Line	<u>N/A</u>	<u>N/A</u>		<input type="checkbox"/> enlarge existing system (undersized)
Distance to Wetland/Protected Water	<u>600'</u>	<u>600'</u>		

5. DESIGNER'S CERTIFIED STATEMENT

I, Dan Schlaudraff certify that I have completed the preceding design work in accordance with all

(Print Name of Designer)

applicable requirements (including, but not limited to Minnesota Chapter 7080 and the Becker County Individual Sewage Treatment System Ordinance).

Dan Schlaudraff

Signature of Designer

8-15-11

Date

SKETCH OF PROPERTY

1. Please sketch all structures on the property; include setbacks
And wells within 100 feet of the property.

PARCEL	
APP	SITE
YEAR	2011

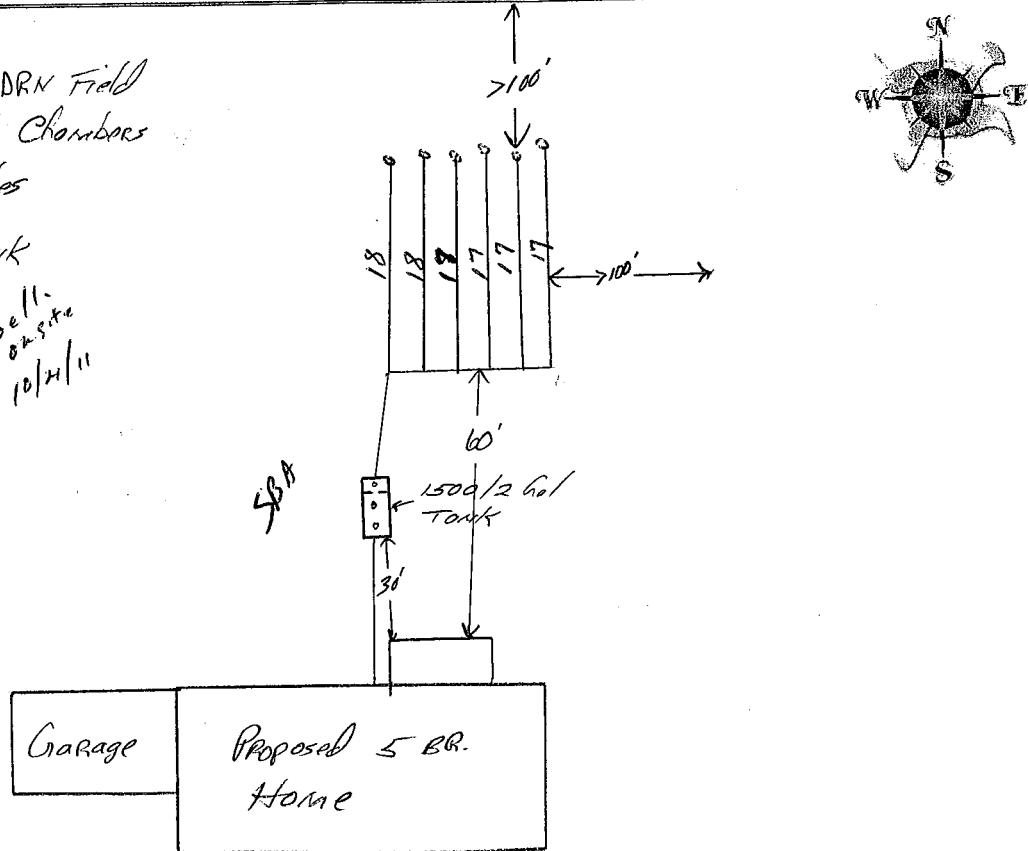
1250 SQ FT DRN Field

104 Q-4 STD Chambers

6- 70' Trenches

1500 1/2 gal Tank

no wells or silt
10/21/11



Remember EROSION CONTROL!

Please use best management practices and/or silt fence to control erosion on all projects.

***** FOR OFFICE USE ONLY *****

Application Approved by: Land & Stoll Date: 8/18/11

Amount Paid 100 Receipt Number 59153-483279 Permit Number 811711

NOTES: Mailed c/c to homeowner

11/2/11

INSPECTION REPORT

Home Information

Does the structure contain any of the following elements?

Garbage disposer Yes No

Dishwasher Yes No

Grinder pump Yes No

Lift pump in basement Yes No

Effluent screen installed? Yes No

Effluent screen manufacturer _____

Alarm required? Yes No Alarm Type _____ Alarm manufacturer _____

Lift pump in system? Yes No Pump manufacturer _____

Number of bedrooms 5

Component Information

Tank size 1500 2/c

Tank manufacturer SMA Fergus Falls

Drainfield size 1250 sq. ft.

Medium manufacturer 1000 Q45

Drainfield medium _____

Drainfield medium size/depth _____

Soil Verification

Vertical separation verified for Boring #1 on _____ Depth +36"

Good Separation

Vertical separation verified for Boring #2 on _____ Depth _____

Vertical separation verified for Boring #3 on _____ Depth _____

Setback Verification

Distance to Well

TANK no well onsite 10/21/11

Distance to Building

DRAINFIELD +10'

Distance to Property Line

+10'

Distance to OHW of Lake

1/4

Distance to Pressure Line

1/4

Distance to Wetland/Protected Water

1/4

1/4

1/4

Date System Installed 10/21/11 Installer Jason Lund Inspector Land & Stoll

CERTIFICATE OF COMPLIANCE

() Certificate Is Hereby Denied

() Certificate is Hereby Granted Based upon the Application, addendum from, plans, specifications and all other supporting data.

With property maintenance, this system can be expected to function satisfactory, however, this is not a guarantee.

Land & Stoll

FSI Inspection

10/21/11

Signature

Title

Date

(Certificate of Compliance is not valid unless signed by a Registered Qualified Employee)

University of Minnesota Site Evaluation Form 5/16/2005



Phone Number 218-850-9200

Property Owner(s) Kelly Riggle

Address 35809 2nd Rd. 109 Ogema, MN 56369

P.I.D.

Date 8-15-11

Section 2

Township 142

N

Range 41

Time 8 AM

Weather conditions Cloudy

Location Information

(check all that apply)

shoreland

dwelling

replacement system

protection area

other establishment

new home construction

Homeowner Information

No. of bedrooms (if applicable)

5

bedrooms (includes possible additions)

No. of residents in home

2 adults

0 children

Estimated flow

750 gpd

Well casing depth

No well on site feet

Discharge location if checked

Water using devices (check)

Garbage disposal

Water softener

Dishwasher

Sump pump

Large bathtub

High eff. furnace

Laundry/large tub on 2nd floor

Jucuzzi/hottub

Water use concerns (check)

Toilet/faucet leaks

Max load laundry/day

Long term prescription medications

Home business

Lint screen

Antibact. soap

Frequent parties or out of town guests

Soil Data

Soil texture classification:

Loam

Unnatural soil (check)

Yes

No

Type of observation (check)

Probe

Boring

Parent material (check)

Till

Loess

Vegetation type (check)

Wet

Unknown

Slope form (check)

Summit

Back

Drainage (check)

Good

Poor

Located in floodplain (check)

Yes

No

Soil Survey Data	Soil #1	Soil #2
Map unit sym & name		
Landscape position		
Flooding		
Slope	<u>1%</u>	<u>1%</u>
Watertable depth		
Bedrock depth		
Possible system depth	<u>2'</u>	<u>2'</u>
Texture at depth	<u>Loam</u>	<u>Loam</u>
Permeability (P)		
Perc(MPI) = 60 / P		
NRCS onsite suitability		

Site Summary Data

Standing water: _____ inches

Bedrock: _____ inches

Saturated soil: _____ inches

24 inches

Maximum depth of system:

24 feet

Max elevation at system bottom:

1.67 gpd/ft²

Soil sizing factor (SSF):

.60 gpd/ft

Linear loading rate (LLR):

28.2 mpi

Was a perc test done?

Yes

No

Soil Boring Data

Boring	Elevation:	Location:	Texture	Color	Structure	Consistence
0-12			Sandy Loam	TOP Soil		
12-40			Loam	10YR 5/4	Blocky	
40-60			Loam	10YR 5/6	Blocky	

Boring	Elevation:	Location:	Texture	Color	Structure	Consistence
0-12			Sandy Loam	TOP Soil		
12-30			Loam	10YR 5/4	Blocky	
30-60			Loam	10YR 5/6	Blocky	

- PERCOLATION TEST SHEET -

Test hole location DRN Field Hole # 12 Date test hole was prepared: 8/15-11

Depth of hole bottom: 26 inches Diameter of hole: 5 inches

Method of scratching sidewall: BBd w/nails Depth of pea size gravel in bottom of hole: _____ inches

Date and hour of initial water filling: 8/15-7 AM Depth of initial water filling: 12 above hole bottom

Method used to maintain 12" of water depth in hole for 4 hours: Manual

Percolation test conducted by: Jan Schlauderhoff Percolation test started at 11 (am) pm).

Maximum water depth above hole bottom during test: 12 inches

TIME	INTERVAL (MINUTES)	WATER DEPTH	WATER DROP (fraction)	WATER DROP (decimal)	PERC RATE CALCULATION	CONVERSIONS
	START <u>30</u>	<u>12</u> <u>10 3/4</u>	<u>1/8</u>	<u>.13</u>	$\frac{30}{\text{TIME}} \div \frac{.13}{\text{DROP}} = \frac{26.5}{\text{PERC}}$ A (Decimal)	$\frac{1}{16} = .06$
	REFILL <u>20</u>	<u>12</u> <u>11 3/4</u>	<u>3/4</u>	<u>.75</u>	$\frac{20}{\text{TIME}} \div \frac{.75}{\text{DROP}} = \frac{26.6}{\text{PERC}}$ B (Decimal)	$\frac{1}{8} = .13$
	REFILL <u>20</u>	<u>12</u> <u>11 3/4</u>	<u>3/4</u>	<u>.75</u>	$\frac{20}{\text{TIME}} \div \frac{.75}{\text{DROP}} = \frac{26.6}{\text{PERC}}$ C (Decimal)	$\frac{3}{16} = .19$
	REFILL	-----	-----	-----	$\frac{\text{TIME}}{\text{DROP}} = \frac{\text{PERC}}{\text{Decimal}}$ D	$\frac{1}{4} = .25$
	REFILL <u>25</u>	<u>9</u> <u>7 3/4</u>	<u>7/8</u>	<u>.88</u>	$\frac{25}{\text{TIME}} \div \frac{.88}{\text{DROP}} = \frac{28.4}{\text{PERC}}$ E (Decimal)	$\frac{5}{16} = .31$
	REFILL <u>30</u>	<u>9</u> <u>7</u>	<u>1</u>	<u>1</u>	$\frac{30}{\text{TIME}} \div \frac{1}{\text{DROP}} = \frac{30}{\text{PERC}}$ F (Decimal)	$\frac{3}{8} = .38$
	REFILL <u>29</u>	<u>9</u> <u>7 1/16</u>	<u>15/16</u>	<u>.94</u>	$\frac{29}{\text{TIME}} \div \frac{.94}{\text{DROP}} = \frac{30.0}{\text{PERC}}$ G (Decimal)	$\frac{7}{16} = .44$
	REFILL	-----	-----	-----	$\frac{\text{TIME}}{\text{DROP}} = \frac{\text{PERC}}{\text{Decimal}}$ H	$\frac{1}{2} = .5$

28.2

SOIL BORING LOG

DEPTH (INCHES)	TEXTURE	COLOR & MUNSELL NO.	STRUCTURE	DEPTH (INCHES)	TEXTURE	COLOR & MUNSELL NO.	STRUCTURE
			BLOCKY PLATY PRISMATIC NONE				BLOCKY PLATY PRISMATIC NONE
			BLOCKY PLATY PRISMATIC NONE				BLOCKY PLATY PRISMATIC NONE
			BLOCKY PLATY PRISMATIC NONE				BLOCKY PLATY PRISMATIC NONE
			BLOCKY PLATY PRISMATIC NONE				BLOCKY PLATY PRISMATIC NONE

Type of alarm
Device on lift
Station or
Holding tank

Attach perc test
Information if
Required