

2018 Onsite Septic System

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



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: 060626301

Is 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 25 Township 138 Range 43 Township Name Colmarant

Lake Name _____ Lake Classification _____

Legal Description: Creek View Acres Lot 1 Block 1 Lots 1-4 BLK 1

Project Address: 11418 Creek View Drive

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

Owner's First Name Brad Owner's Last Name Halverson

Mailing Address 29851 70th Ave S City, State, Zip Hawley mn

Phone Number 701-212-0761

3. DESIGNER/INSTALLER INFORMATION

Designer Name Timothy Smith Company Name Dewey's septic service License # 2884

Address 13384 County Hwy 4 Phone Number 218 532-2516

Installer Name Same Company Name _____ License # _____

Address _____ Phone Number _____

4. SYSTEM DESIGN INFORMATION

System Status

- Vacant Lot-No existing system-new structure
- Replacement - structure removed and being rebuilt
- Failing -Replacement- cesspool/seepage pit or other
- Enlargement of system-Undersized
- Repairs Needed to existing
- Additional system on property

What will new system serve? Check one

- Dwelling
- Resort/Commercial
- Commercial (Non-resort)
- Other - explain below _____

8-2-2018 Date of site evaluation

Design Flow 450 Gallons Per Day

Number of Bedrooms 3

Garbage Disposal Yes No

Dishwasher Yes No

Lift station in House Yes No

Grinder pump in House Yes No

Well Depth 250
Depth of other wells within
100 ft of system _____

Original Soil _____ Compacted Soil _____
Type of Soil Observation
 Pit Probe Boring
Depth to Restricting Layer 34"
Maximum Depth of System 48"

Size of All Tanks to be installed

<u>1500</u> gal Single Compartment Septic Tank	_____ gal Separate Lift Station	_____ Existing tank w/new Additional Tank
_____ gal Compartmented Tank	_____ gal Holding Tank	_____ Existing tank w/new Lift Station
_____ Pit Privy	_____ Existing Tank to be used	_____ Holding Tank with Privy

Total Number of tanks to be installed in this system 1 (This # will be reported to MPCA at end of year.)

PARCEL	
APP	SEPTIC
YEAR	

Type of Drainfield
 Chamber Trench
 Rock Trench
 Gravelless
 Mound
 Pressure Bed
 Seepage Bed
 At-grade
 Alternative / Performance

Full Size of Drainfield
375 sq ft
 _____ sq ft
 _____ sq ft
 _____ sq ft ***
 _____ sq ft ***
 _____ sq ft ***
 _____ sq ft ***
 _____ sq ft ***

Reduced/Warrantied size
 _____ sq ft
 _____ sq ft
 _____ sq ft

***Attach Worksheets

Type of chamber Quick 4 Standard
 Depth of Rock _____
 Alarm? Yes _____ No _____
 Type of Alarm _____
 Size of Lift Pump _____
 Size of Lift Line _____

PROPOSED SETBACKS

	TANK	DRAINFIELD
Distance to Well	<u>750</u>	<u>750</u>
Distance to Building	<u>710</u>	<u>720</u>
Distance to Property Line	<u>710</u>	<u>710</u>
Distance to OHW of Lake	<u>-</u>	<u>-</u>
Distance to Pressure Line	<u>220</u>	<u>220</u>
Distance to Wetland/Protected Water	<u>-</u>	<u>-</u>

Perc Rate _____ Soil Sizing Factor 1.2 *If SSF other than .83, attach Perc Test Data

Soil Borings (three are required)

Depth	Texture	Color	Structure		Depth	Texture	Color	Structure
<u>0-10</u>	<u>10GR 2/2</u>	<u>Loamy sand</u>	<u>Granular</u>		<u>0-10</u>	<u>Loamy sand</u>	<u>10GR 2/2</u>	<u>Granular</u>
<u>10-16</u>	<u>Sand</u>	<u>10GR 4/3</u>	<u>Single grain</u>		<u>11-17</u>	<u>sand</u>	<u>10GR 4/3</u>	<u>Single grain</u>
<u>16-76</u>	<u>sand</u>	<u>10GR 5/3</u>	<u>single grain</u>		<u>17-76</u>	<u>sand</u>	<u>10GR 5/3</u>	<u>Single Grain</u>
<u>76+</u>	<u>sand</u>	<u>10GR 6/1</u>			<u>76+</u>	<u>sand</u>	<u>10GR 6/1</u>	

Depth	Texture	Color	Structure		Depth	Texture	Color	Structure
<u>0-11</u>	<u>Loamy sand</u>	<u>10GR 2/2</u>	<u>Granular</u>					
<u>11-16</u>	<u>sand</u>	<u>10GR 4/3</u>	<u>single grain</u>					
<u>16-76</u>	<u>sand</u>	<u>10GR 5/3</u>	<u>single grain</u>					
<u>76+</u>	<u>sand</u>	<u>10GR 6/1</u>						

5. REQUIRED DOCUMENTS

U of MN worksheets are required for mounds, pressure beds, seepage beds, at-grades or Type IV or Type V systems. Are the required worksheets attached? Yes No

6. DESIGNER'S CERTIFIED STATEMENT

I, Timothy Smith certify that I have completed the preceding design work in accordance with all applicable requirements (including, but not limited to Minnesota Chapter 7080 and the Becker County Individual Sewage Treatment System Ordinance).

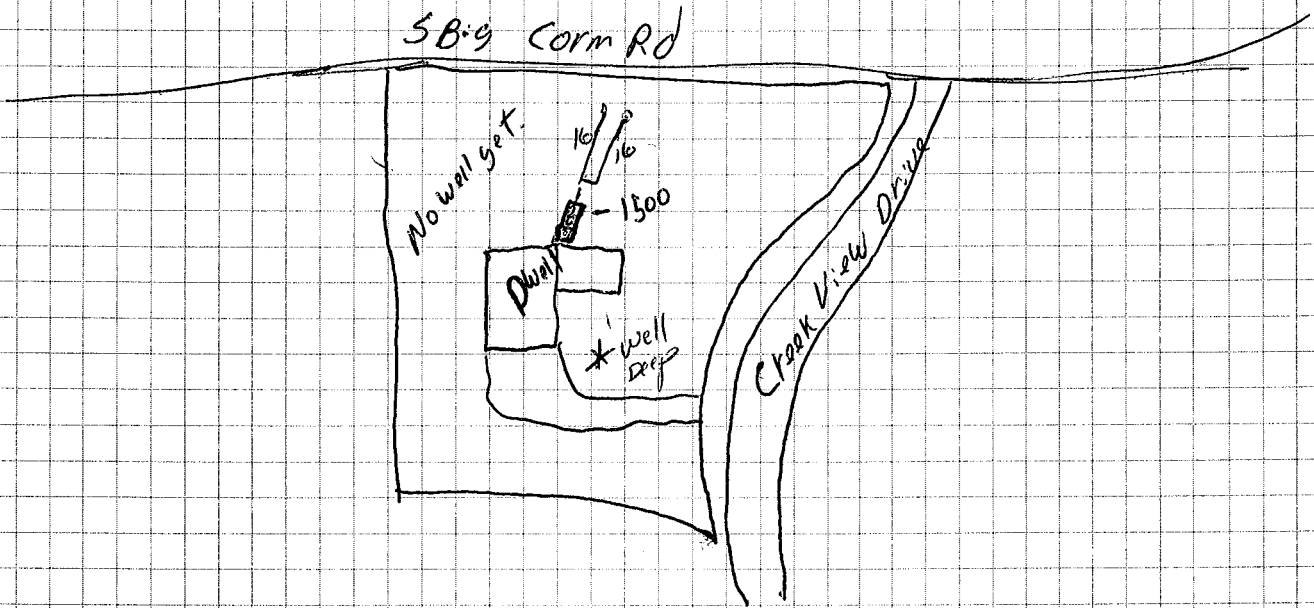
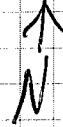
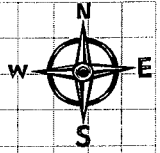
Timothy Smith
 Signature of Designer

8-2-18
 Date

SKETCH OF PROPERTY

Please sketch all structures and septic systems on the property;
Include setbacks and wells within 100 feet of the property.

PARCEL	
APP	SEPTIC
YEAR	2018



Gravity Trenches Design

2011 purple code

(includes pump to gravity)

www.SepticResource.com (vers 15.2)

Property Owner: Brad Halverson Date: 8-2-18

Site Address: no address Creek View Acres PID: 060626301

Comments: _____

Instructions: = enter data = adjust if desired = computer calculated - DO NOT CHANGE!

- 1) bedroom Type Residential System
- 2) GPD design flow
- 3) Garbage disposal or pumped to septic
- 4) Gal Septic tank (code minimum) Gal Septic tank (design size / LUG req'd)
Tank options: none
- 5) GPD/ft² Soil Loading Rate inches of rock below the pipe
(must match soil boring log)
 ft² (code minimum) ft² (design size / LUG req'd)
Distribution media: installers choice rock chamber _____
- 6) desired # of 3' wide trenches, leads to ft. Long trenches (avg)
or lineal ft (total)
- 7) inches, or ft. to Redox or other limiting condition (This must match the soil boring log)
Treatment zone contains inches 0% soil credit, and inches 50% soil credit
- 8) inches, or ft. of vertical separation required
leads to bottom of rock no more than:
- 9) inches, or ft. Below existing grade **CRITICAL FOR FUTURE CERTIFICATIONS!!!**
- 10) Overall Dimensions: Trenches ft. wide by ft. Long
or lineal ft (total)
- 11) Rock materials:
 ft. by ft. by inches total, plus 20% gives yd³ or *1.4= ton

For pump to gravity systems:

- 12) doses per day (4 minimum)
- 13) gallons per dose (treatment volume)
- 14) feet of inch supply line leads to gallons of drainback volume
(Tip: "top feed" manifold to control drainback)
- 15) gallons TOTAL pump out volume (treatment + drainback)
- 16) feet vertical lift from pump to highest trench, leads to a
- 17) GPM @ feet of head, Pump requirement
(10-45 gpm)
- 18) gal Dose tank (code min) gal Dose tank (design size / LUG req'd) at gpi
- 19) inch swing on Demand float, or Timed dosing of min ON (confirm rate with drawdown
(this delivers Average flow, =70% of Peak design flow) hrs OFF test and adjust as necessary)
- 20) inches from bottom of tank to "pump OFF" float
- 21) inches from bottom of tank to "pump ON" float, or inches to "timer ON" float if time dosed
- 22) inches from bottom of tank to "Hi Level" float, or inches to "Hi Level" float if time dosed
- 23) gallons reserve capacity (after High Level Alarm is activated)

I hereby certify that I have completed this work in accordance with all applicable ordinances, rules and laws.

Justin Scott
Designer Signature

Dowdy's Septic Service
Company

2884
License#

8-2-18
Date

***** FOR OFFICE USE ONLY *****
 Application Approved by: [Signature] Date: 8/7/18
 Amount Paid 81500 Receipt Number _____ Permit Number _____
 NOTES: # 133467 - 688469

INSPECTION REPORT

Home Information

Does the structure contain any of the following elements?

Garbage disposer Yes No
 Grinder pump Yes No
 Effluent screen installed? Yes No
 Dishwasher Yes No
 Lift pump in basement Yes No
 Effluent screen manufacturer _____

Alarm required? Yes No Alarm Type _____ Alarm manufacturer _____

Lift pump in system? Yes No Pump manufacturer _____

Number of bedrooms 3

Component Information

Tank size 1500 Tank manufacturer Filtator
 Drainfield size 375 sqft. Medium manufacturer 32 QCS
 Drainfield medium _____
 Drainfield medium size/depth _____

Soil Verification

Vertical separation verified for Boring #1 on _____ Depth 136"
 Vertical separation verified for Boring #2 on _____ Depth _____
 Vertical separation verified for Boring #3 on _____ Depth _____

Setback Verification

	TANK	DRAINFIELD
Distance to Well	<u>150</u>	<u>150</u>
Distance to Building	<u>10</u>	<u>20</u>
Distance to Property Line	<u>10</u>	<u>10</u>
Distance to OHW of Lake	<u>-</u>	<u>-</u>
Distance to Pressure Line	<u>20</u>	<u>20</u>
Distance to Wetland/Protected Water	<u>-</u>	<u>-</u>

Date System Installed 9/19/18 Installer Dewey's Septic Inspector [Signature]

CERTIFICATE OF COMPLIANCE

() Certificate Is Hereby Denied
 (X) 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.

[Signature] ITS Inspector 9/19/18
 Signature Title Date

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