Inspect Minnesota & Midwest Soil Testing

P.O. Box 10853 White Bear Lake, MN 55110 Brian Humpal
651-492-7550/Brian@Midwestsoiltesting.com MPCA Licensed Advanced Inspector

SUBSURFACE SEWAGE TREATMENT SYSTEM COMPLIANCE REPORT

Date: May 29, 2018 **Time:** 1:00 PM **Owner:** Chuck & Robyn Preisler
Inspection Address: 14197 240th St N, Scandia, MN 55073

REPORT SUMMARY

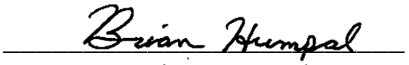
I have performed an "MPCA Compliance Inspection" on this system, have reviewed the history of the system with the owner, Robyn Preisler, and have reviewed the original design/permit records on file at Washington County. This very old system (installed in 1976) consists of a pre-cast septic tank and a rock trench drainfield. It should be noted that the average life expectancy of a septic system is approximately 30 years.

Although not compliance criteria, it should be noted that the septic tank inlet baffle missing.

My inspection indicates that this system is presently "non-compliant" in accordance with MPCA rules 7080.1500 Subp.4(B)(E) because of the lack of the required two foot separation between the bottom of the drainfield and seasonally saturated soils. Washington County issued sewage treatment permit #1074 for the installation of this septic system.

In accordance with MPCA rules, I am sending a copy of this complete report to Washington County. I cannot officially speak on behalf of the County relative to the upgrade requirements of these non-compliant systems. Please contact the Washington County Department of Public Health & Environment (651-430-6655) to verify the County's position.

Please advise buyer, agents, lender, etc. to contact me should they have any questions regarding this system.



Brian Humpal

NOTE: This report is not complete without the inclusion/attachment of the additional pages which consist of up to five (5) MPCA drafted Compliance Inspection Documents, one (1) Homeowner/Occupant Information Sheet (when obtainable), one (1) site diagram, one (1) log of soil boring(s), one (1) Brian L Humpal, Inc. Disclaimer Sheet, and one (1) MPCA License.

Minnesota Pollution Control Agency
520 Lafayette Road North
St. Paul, MN 55155-4194

Compliance Inspection Form

Existing Subsurface Sewage Treatment Systems (SSTS)

Doc Type: Compliance and Enforcement

Instructions: Inspection results based on Minnesota Pollution Control Agency (MPCA) requirements and attached forms – additional local requirements may also apply.

Submit completed form to Local Unit of Government (LUG) and system owner within 15 days

For local tracking purposes:

System Status

System status on date (mm/dd/yyyy): 5/29/2018

☐ **Compliant – Certificate of Compliance**
(Valid for 3 years from report date, unless shorter time frame outlined in Local Ordinance.)

☒ **Noncompliant – Notice of Noncompliance**
(See Upgrade Requirements on page 3)

Reason(s) for noncompliance *(check all applicable)*

- ☐ Impact on Public Health *(Compliance Component #1) – Imminent threat to public health and safety*
- ☐ Other Compliance Conditions *(Compliance Component #3) – Imminent threat to public health and safety*
- ☐ Tank Integrity *(Compliance Component #2) – Failing to protect groundwater*
- ☐ Other Compliance Conditions *(Compliance Component #3) – Failing to protect groundwater*
- ☒ Soil Separation *(Compliance Component #4) – Failing to protect groundwater*
- ☐ Operating permit/monitoring plan requirements *(Compliance Component #5) – Noncompliant*

Property Information

Parcel ID# or Sec/Twp/Range:

Property address: 14197 240th St N, Scandia, MN 55073
Reason for inspection: Property Transfer
Property owner: Chuck & Robyn Preisler
Owner's phone: 651-248-8595
or
Owner's representative:
Representative phone:
Local regulatory authority: Washington County
Regulatory authority phone: 651-430-6655
Brief system description: A pre-cast septic tank and rock trench drainfield.
Comments or recommendations:
Although not compliance criteria, it should be noted that the septic tank inlet baffle missing.

Certification

I hereby certify that all the necessary information has been gathered to determine the compliance status of this system. No determination of future system performance has been nor can be made due to unknown conditions during system construction, possible abuse of the system, inadequate maintenance, or future water usage.

Inspector name: Brian Humpal
Certification number: L5342
Business name: Inspect Minnesota, Midwest Soil Testing
License number: L2896
Inspector signature: Brian Humpal
Phone number: 651-492-7550

Necessary or Locally Required Attachments

☒ Soil boring logs ☒ System/As-built drawing ☐ Forms per local ordinance
☒ Other information (list): Report Summary, Property Information, Disclaimer, License

Property address: 14197 240th St N, Scandia, MN 55073 Inspector initials/Date: 5/29/2018BH

1. Impact on Public Health – Compliance component #1 of 5

Compliance criteria:	
System discharge sewage to the ground surface.	☐ Yes ☒ No
System discharge sewage to drain tile or surface waters.	☐ Yes ☒ No
System cause sewage backup into dwelling or establishment.	☐ Yes ☒ No

Any "yes" answer above indicates the system is an Imminent Threat to Public Health and Safety.

Verification method(s):

- ☒ Searched for surface outlet
- ☒ Searched for seeping in yard/backup in home
- ☒ Excessive ponding in soil system/D-boxes
- ☒ Homeowner testimony *(See Comments/Explanation)*
- ☐ "Black soil" above soil dispersal system
- ☐ System requires "emergency" pumping
- ☐ Performed dye test
- ☐ Unable to verify *(See Comments/Explanation)*
- ☐ Other methods not listed *(See Comments/Explanation)*

Comments/Explanation:

Mpme of the above found.

2. Tank Integrity – Compliance component #2 of 5

Compliance criteria:	
System consists of a seepage pit, cesspool, drywell, or leaching pit. *Seepage pits meeting 7080.2550 may be compliant if allowed in local ordinance.*	☐ Yes ☒ No
Sewage tank(s) leak below their designed operating depth.	☐ Yes ☒ No
If yes, which sewage tank(s) leaks:	

Any "yes" answer above indicates the system is Failing to Protect Groundwater.

Verification method(s):

- ☒ Probed tank(s) bottom
- ☒ Examined construction records
- ☐ Examined Tank Integrity Form *(Attach)*
- ☐ Observed liquid level below operating depth
- ☐ Examined empty (pumped) tanks(s)
- ☐ Probed outside tank(s) for "black soil"
- ☐ Unable to verify *(See Comments/Explanation)*
- ☒ Other methods not listed *(See Comments/Explanation)*

Comments/Explanation:

Although not compliance criteria, it should be noted that the septic tank inlet baffle missing.

3. Other Compliance Conditions – Compliance component #3 of 5

a. Maintenance hole covers are damaged, cracked, unsecured, or appear to structurally unsound. ☐ Yes* ☒ No ☐ Unknown

b. Other issues *(electrical hazards, etc.)* to immediately and adversely impact public health or safety. ☐ Yes* ☒ No ☐ Unknown
System is an imminent threat to public health and safety

Explain:

c. System is non-protective of ground water for other conditions as determined by inspector ☐ Yes* ☒ No
System is failing to protect groundwater

Explain:

Property address: 14197 240th St N, Scandia, MN 55073 Inspector initials/Date: 5/29/2018 BH

4. Soil Separation – Compliance component #4 of 5

Date of installation: 1976 ☐ Unknown

Shoreland/Wellhead protection/Food Beverage Lodging? ☐ Yes ☒ No

Compliance criteria:

For systems built prior to April 1, 1996, and not located in Shoreland or Wellhead Protection Area or not serving a food, beverage or lodging establishment: Drainfield has at least a two-foot vertical separation distance from periodically saturated soil or bedrock.	☐ Yes ☒ No
Non-performance systems built April 1, 1996, or later or for non-performance systems located in Shoreland or Wellhead Protection Areas or serving a food, beverage, or lodging establishment: Drainfield has a three-foot vertical separation distance from periodically saturated soil or bedrock.*	☐ Yes ☐ No
"Experimental", "Other", or "Performance" systems built under pre-2008 Rules; Type IV or V systems built under 2008 Rules (7080. 2350 or 7080.2400 (Advanced Inspector License required) Drainfield meets the designed vertical separation distance from periodically saturated soil or bedrock.	☐ Yes ☐ No

Any "no" answer above indicates the system is Failing to Protect Groundwater.

Verification method(s):

Soil observation does not expire. Previous soil observations by two independent parties are sufficient, unless site conditions have been altered or local requirements differ.

☒ Conducted soil observation(s) *(Attach boring logs)*
☐ Two previous verifications (A*ttach boring logs)*
☐ Not applicable *(Holding tank(s), no drainfield)*
☐ Unable to verify *(See Comments/Explanation)*
☐ Other *(See Comments/Explanation)*

Comments/Explanation:

Indicate depths of elevations

A. Bottom of distribution media	See Attached Boring Log(s)
B. Periodically saturated soil/bedrock	
C. System separation	
D. Required compliance separation*	

*May be reduced up to 15 percent if allowed by Local Ordinance.

5. Operating Permit and Nitrogen BMP* – Compliance component #5 of 5 ☒ Not applicable

Is the system operated under an Operating Permit? ☐ Yes ☒ No **If "yes", A below is required**

Is the system required to employ a Nitrogen BMP? ☐ Yes ☒ No **If "yes", B below is required**

BMP=Best Management Practice(s) specified in the system design

If the answer to both questions is "no", this section does not need to be completed.

Compliance criteria

a. Operating Permit number: _____ Have the Operating Permit requirements been met?	☐ Yes ☐ No
b. Is the required nitrogen BMP in place and properly functioning?	☐ Yes ☐ No

Any "no" answer indicates Noncompliance.

Upgrade Requirements *(Minn. Stat. § 115.55) An imminent threat to public health and safety (ITPHS) must be upgraded, replaced, or its use discontinued within ten months of receipt of this notice or within a shorter period if required by local ordinance. If the system is failing to protect ground water, the system must be upgraded, replaced, or its use discontinued within the time required by local ordinance. If an existing system is not failing as defined in law, and has at least two feet of design soil separation, then the system need not be upgraded, repaired, replaced, or its use discontinued, notwithstanding any local ordinance that is more strict. This provision does not apply to systems in shoreland areas, Wellhead Protection Areas, or those used in connection with food, beverage, and lodging establishments as defined in law.*

Permit Fee $ 15⁰⁰

OFFICE OF THE ZONING ADMINISTRATOR
WASHINGTON COUNTY, MINNESOTA
Tel. 439-3220

PERMIT TO INSTALL SEWAGE DISPOSAL SYSTEM

Owner: Edwin Kornstad (NAME) — Permit No. 1074

14177 240th St N — New Scandia Twp (ADDRESS)

MINIMUM SYSTEM REQUIRED: 3 Bedrooms, Percolation Rate 25 Min/Inch

Septic Tank 1200 Gal. Liquid Capacity

Distribution Box Concrete with Removable Cover

Absorption Trench – Square Feet 690 Lineal Feet 345 Width 24"

Depth of Rock Below Tile Lines 12 Inches, Above Tile 2 Inches

Depth of Trench – Minimum Cover 18 Inches, Maximum Cover 36 Inches

Minimum Number of Lines 4 . Maximum Length of Individual Line 100 Ft.

Recommended Number of Lines 4 @ 87' or 6 @ 58'

Minimum Spacing of Lines 6 1/2 Ft. Center to Center.

Inspection of Installation Must Be Accomplished By This Office Before Any Portion of System Is Covered.

Special Conditions: Line from house to septic tank to be cast iron. No portion of system to be closer than 75' to bonding areas. See details attached

R. Bowman

System Inspected 3-23-76 (DATE)

Installation Approved H. Weaver (INSPECTOR)

Comments: 18" to 24" cover System placed N.E of house to 240th street

PERMIT: Permission is hereby granted to the above named applicant to perform the work described in the application, to the specifications shown under minimum system required. This permit is granted upon express condition that the person to whom it is granted, and his agents, employees and workmen shall conform in all respects to ordinances of Washington County, Minnesota. This permit may be revoked at any time upon violation of any said ordinance, and permit shall be void if work is not commenced within (6) months.

Approved: [signature] (ZONING ADMINISTRATOR) — Jan 29, 1976 (DATE)

WHITE COPY – APPLICANT CANARY COPY – FILE PINK COPY – INSPECTOR GOLDENROD – MUNICIPALITY

Inspect Minnesota & Midwest Soil Testing

Subsurface Sewage Treatment System Owner/Property Information

This information will be used for the purpose of conducting an MPCA Compliance Inspection.

Date of Inspection: May 29, 2018	Time: 1:00 PM
Property Address: 14197 240th St N, Scandia, MN	Zip: 55073
Property Owner: Chuck & Robyn Preisler	Phone: 651-248-8595

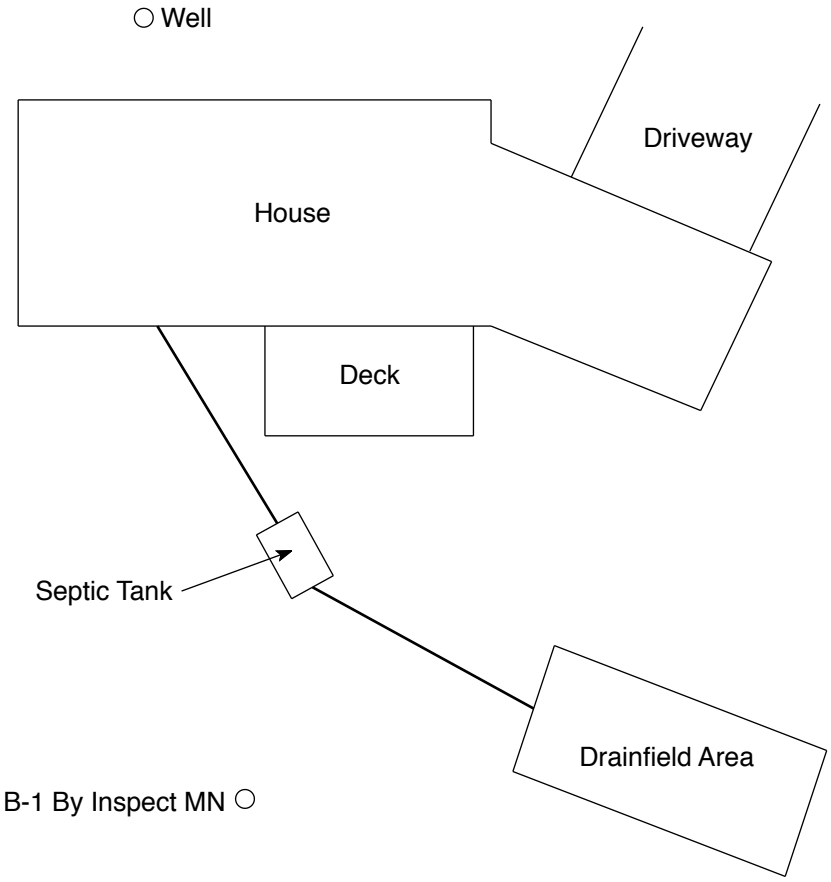
Tank(s)	Tank(s)Material	Soil Treatment System	Other
☒ Septic 1	☐ Fiberglass	☒ Rock trench	☐ Alternative system _____
☐ Aerobic	☐ Plastic	☐ Gravelless trench	☐ Experimental system _____
☐ Lift	☐ Metal	☐ Chamber trench	☐ Cesspool system _____
☐ Holding	☒ Concrete	☐ Seepage bed	☐ Other system _____
☐ Other:	☐ Block	☐ Mound	_____
	☐ Other _____	☐ At-grade	_____

Are the tank maintenance covers accessible? ☒ Yes ☐ No *If no, proper maintenance must be performed through the maintenance holes. Maintenance hole covers should be made accessible to the ground surface to facilitate access and proper maintenance of the system.

Year house built: 1976	Year septic installed: 1976	Tank size (gals.): 1200
How long has seller owned the property? 1976	Number of residents in home? 2-5	
Number of bedrooms? 3	Are all floors drained by gravity? Y	
Garbage disposal? N	Whirlpool bath? N	
More than one system (laundry, etc.)? N		
Does this property have any footing drain tiles connected to the septic system? N		
Are any buildings on this property such as garages or out-buildings connected to this system? N		
Are there any additional systems on this property serving other buildings? N		
Location of septic system on lot? South Side		
Location of water well on lot? North Side	Is the well a deep well? Y	
Have you ever experienced any problems with the system such as: tree roots, sewage back-ups, surfacing of sewage onto the ground, septic tank overflowing, etc.; or have any repairs been made to the system? N If yes, explain:		
When was the system last pumped? 2017	Name of pumper: Smilie's Sewer Service	
How often pumped in previous years? Every Year	Is system on a monitoring plan? N	
Have you received notices from any government agency concerning this system? N		
Is your property located in a shoreland management area? N		
Do you have any additional information that should be given to the new owner? N		

I hereby certify that the above information is correct to the best of my knowledge. I also understand that if the system is considered "non-compliant/failing" per MPCA rules, that the inspector must by law submit a copy of this report to the local government unit within 15 days of the date of inspection completion. I also agree that unless otherwise noted in this report, that I/we are ultimately responsible for payment of all fees for all work performed relative to this inspection by Inspect Minnesota and Midwest Soil Testing.

Owner/Occupant: Robyn Preisler's Signature On File Date: 55073



N

NO SCALE

14197 240th St N, Scandia, MN 55073

Log Of Soil Borings

Location of Project:	14197 240th St N, Scandia, MN 55073		
Borings Made By:	Inspect Minnesota	Date:	5/29/18
Auger Used:	Hand/Bucket	Classification System:	USDA

Boring Number:	1	Boring Number:	
Surface Elevation of Boring	Same ground surface as last drainfield trench	Surface Elevation of Boring	

Depth In Inches	Soils Encountered	Depth In Inches	Soils Encountered
0-23 23-41	10YR 2/2 Loamy Sand 10YR 3/3 Loamy Sand With 10YR 7/1, 5YR 4/4, & 5YR 4/6 Redox		
23"	Depth To End Of Boring Or Redox		Depth To End Of Boring Or Redox
Same	Elevation Of Boring Relative To System		Elevation Of Boring Relative To System
-36"	Depth To Bottom Of Distribution Media		Depth To Bottom Of Distribution Media
=0"	Of Separation		Of Separation

End Of Boring At:	41"	End Of Boring At:	
Redox Present At:	23"	Redox Present At:	
Standing Water Present At:	None	Standing Water Present At:	

Bottom Of Distribution Medium At: 36 Inches

DISCLAIMER

Brian L. Humpal, Inc. dba. Inspect Minnesota, Midwest Soil Testing
Relative to Subsurface Sewage Treatment System (SSTS) Compliance Inspections

1. This inspection/report is being performed for only the seller/owner of the property on which the SSTS is located. In such case that another party is paying for the inspection, the contract is between only said party and Brian L. Humpal, Inc.; there is no contract between Brian L. Humpal, Inc. and any other party unless otherwise noted.
3. Brian L. Humpal, Inc. has not been retained to warranty, guarantee, or certify the proper functioning of the SSTS for any period of time beyond the date of inspection or into the future. Because of the numerous factors (usage, maintenance, soil characteristics, previous failures, etc.) which may affect the proper operation of an SSTS, as well as the inability of Brian L. Humpal, Inc. to supervise or monitor the use or maintenance of the SSTS, the report shall not be construed as a warranty by Brian L. Humpal, Inc. that the SSTS will function properly for any particular party for any period of time.
4. Brian L. Humpal, Inc. is unable to verify the frequency and/or, quality of prior or future maintenance of the SSTS. Maintenance of the tank(s) must be performed through the tanks maintenance hole. The removal of solids from any location other than the maintenance hole is not a compliant method of maintenance. It is strongly recommended that maintenance covers be made accessible to the ground surface to facilitate proper maintenance.
5. Minimum Compliance Inspection requirements relative to this inspection and this report include only verification that the SSTS has tank(s) (septic tanks, lift tanks, dosing tanks, stilling tanks, etc.) which are watertight below the designed operating depth, the required separation between the bottom of the subsurface soil distribution medium and seasonally saturated soils, no back-ups of sewage into the dwelling, no discharge of sewage/effluent to the ground surface or surface waters, and no imminent safety hazards. Brian L. Humpal, Inc. does not inspect plumbing or pumps prior to the first SSTS component as these are plumbing components. The performance of exterior pumps and associated components are not inspected as they are considered to be maintenance items. Additionally, no indications relative to compliance with electrical code requirements have been made. It is recommended that any other applicable plumbing, electrical, housing, etc. inspections be performed by a qualified inspection business. Sewage back-up verification is limited to observing the floor drain area and/or the information supplied by the last occupants of the building prior to inspection. Brian L. Humpal, Inc. cannot guarantee that the information given to them by the last occupants of the building prior to inspection relative to back-ups is accurate.
4. Certification of this SSTS does not warranty future use beyond the date of the inspection. Any SSTS, old or new, can become hydraulically overloaded or discharge sewage/effluent to the ground surface as a result of more people moving into the house than were previously occupying the house, improper maintenance, heavy usage, leaking plumbing fixtures, groundwater infiltration, tree roots, freezing conditions, surface drainage problems, poor initial design, poor construction practices, or unsuitable materials used in constructing the system; the system can also simply stop working because of its age. An SSTS that has been properly designed and installed, properly maintained, and used in the manner for which the system was designed can be expected to provide service for twenty to twenty-five years on average. Some parts of the SSTS such as alarms, switches, pumps, filters, etc. will most likely have to be repaired or replaced over the lifetime of the system.
5. A Compliance Inspection is not meant to be a test or inspection for longevity of the system; a Compliance Inspection is strictly for the purpose of determining if the SSTS is protective of public health and safety, as well as the groundwater at the date and time the inspection was performed. This inspection is not intended to determine if the SSTS was originally designed or installed to past or present MPCA or other Local Government Unit code requirements. This inspection is not intended to determine if the SSTS was designed and/or installed to support the anticipated flow from the building as the use of the building may have changed since the design and construction of the SSTS due to the addition of bedrooms, occupants, etc. In addition, this inspection is not intended to determine the quality of the original SSTS design, the quality of the construction practices used while installing the SSTS, or the quality of the materials used in constructing the SSTS.
6. Brian L. Humpal, Inc. cannot guarantee the performance of SSTS products/components such as: gravelless pipe, chamber trenches, effluent filters, tanks, sewage pre-treatment components, piping, etc. Products such as gravelless pipe are no longer approved for installation in the State of Minnesota and may have a significantly reduced performance and/or life expectancy.
7. WINTER WORK: By accepting this report, it is understood that inspections conducted during winter months (approximately November 1st through April 1st) are more difficult to perform because of possible snow cover and/or ground frost. SSTS components such as tanks, maintenance covers, tank inspection pipes, subsurface distribution medium inspection pipes, and soil treatment areas are more difficult or impossible to locate due to snow cover and/or ground frost. In addition, soil borings are more difficult to perform due to snow cover and/or ground frost. Brian L. Humpal, Inc. will attempt to use the same level of standards when performing work during winter periods as when performing work during non-winter periods. However, the recipient of this report understands that because of the aforementioned considerations, the same level of standards may not be possible.
8. By accepting this report, the client understands that Brian L. Humpal, Inc. will not be responsible for any monetary damages exceeding the fee for the services provided.

Subsurface Sewage Treatment Systems

Non-transferable

Business License

Inspect Minnesota, Midwest Soil Testing

License # L2896 License Expires: 12/22/2018 Issued: 10/10/2017

Specialty Area(s):

Installer
Maintainer
Service Provider
Advanced Designer
Advanced Inspector

Designated Certified Individual(s):

Cert #	Name	Certification Expires:
C9633	Anthony P Scully Installer, Designer (Conditional)	7/28/2018
C5342	Brian L Humpal Installer, Maintainer, Serv Prov, Adv Designer, Adv Inspector	10/15/2020
C9852	Christopher R Uebe Designer, Inspector	3/4/2018

MINNESOTA POLLUTION CONTROL AGENCY

520 Lafayette Road North
St. Paul, Minnesota 55155-4194

Charles K Thompson

Charles K Thompson, Supervisor
Certification & Training Unit