#### **Inspect Minnesota & Midwest Soil Testing**

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

Brian Humpal

MPCA Licensed Advanced Inspector

#### SUBSURFACE SEWAGE TREATMENT SYSTEM (SSTS) COMPLIANCE REPORT

**Date:** December 7, 2017 **Time:** 11:15 AM **Owner:** Barbara Loe

**Inspection Address:** 11165 Penfield Ave N, Stillwater Twp, MN 55082

#### **REPORT SUMMARY**

I have performed an "MPCA Compliance Inspection" on this system. I have contacted Washington County and was advised that there are no records for this system. This older system (installed in 1989) consists of a pre-cast septic tank and a rock trench drainfield.

Predicated on my inspection of the system, it is my opinion that this system <u>presently</u> meets MPCA minimum compliance inspection requirements.

Inspect Minnesota and Midwest Soil Testing have been hired to perform a compliance inspection of this SSTS for compliance with local ordinances pursuant to Minn. Stat. § 115.55 (2013). This compliance inspection covers only the criteria required by Minn. Stat. § 115.55 Subd. 5a (2013) and Minn. R. 7080.1500 (2011). A compliance inspection is an indication of the current compliance status of the system and does not guarantee the performance or longevity of this system beyond the date of inspection, as it is impossible to determine the future performance of any system. Inspect Minnesota and Midwest Soil Testing disclaim any use of this compliance inspection beyond determining SSTS compliance pursuant to Minn. Stat. § 115.55 Subd. 5a (2013) and Minn. R. 7080.1500 (2011).

Please contact me should you have any questions.

Brian Humpal



## **Compliance Inspection Form**

## Existing Subsurface Sewage Treatment Systems (SSTS)

Doc Type: Compliance and Enforcement

<b>Instructions:</b> Inspection results based on Minnesota Pollution Control Agency (MPCA) requirements and attached forms – additional local requirements may also apply.	For local tracking purposes:
Submit completed form to Local Unit of Government (LUG) and system owner within 15 days	
System Status	
System status on date (mm/dd/yyyy):12/7/2017	
·	apliant – Notice of Noncompliance rade Requirements on page 3)
Reason(s) for noncompliance (check all applicable)  Impact on Public Health (Compliance Component #1) – Imminent threat to Other Compliance Conditions (Compliance Component #3) – Imminent threat to Tank Integrity (Compliance Component #2) – Failing to protect groundwate Other Compliance Conditions (Compliance Component #3) – Failing to protect groundwate Soil Separation (Compliance Component #4) – Failing to protect groundwate Operating permit/monitoring plan requirements (Compliance Component #4)	eat to public health and safety er tect groundwater ater
Property Information Parcel ID# or Sec/Twp/Rang	e:
	or inspection: Property Transfer
Property owner: Barbara Loe Owner's p	hone:
or	
	tative phone: 651-208-0538
· · · · · · · · · · · · · · · · · · ·	y authority phone: 651-430-4052
Brief system description: A pre-cast sentic tank and a rock trench drainfield	
Brief system description: A pre-cast septic tank and a rock trench drainfield.  Comments or recommendations:	
Comments or recommendations:	
Certification  I hereby certify that all the necessary information has been gathered to determine the celetermination of future system performance has been nor can be made due to unknown possible abuse of the system, inadequate maintenance, or future water usage.	
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Comments or recommendations:	
Comments or recommendations:  Certification	ompliance status of this system. No
Comments or recommendations:  Certification  I hereby certify that all the necessary information has been gathered to determine the condetermination of future system performance has been nor can be made due to unknown	
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Property address: 11165 Penfield Ave N, Stillwater Twp, MN 55082

Inspector initials/Date: 12/7/2017

1.	lm	mpact on Public Health — Compliance component #1 of 5						
	Co	Compliance criteria:				Verification method(s):		
		stem discharge sewage to the bund surface.	☐ Yes	⊠ No	$\boxtimes$	1 9 , 1		
		stem discharge sewage to drain tile surface waters.	☐ Yes	⊠ No		Excessive ponding in soil system/D-boxes Homeowner testimony (See Comments/Explanation)  "Black soil" above soil dispersal system		
		rstem cause sewage backup into relling or establishment.	☐ Yes	⊠ No		System requires "emergency" pumping Performed dye test		
	Any "yes" answer above indicates the system is an Imminent Threat to Public Health and Safety.			☐ Unable to verify (See Comments/Explanation) ☐ Other methods not listed (See Comments/Explanation)				
		omments/Explanation: one of the above found.						
	INC	one of the above found.						
_	_							
2.	Τā	ank Integrity — Compliance com	iponent :	#2 of 5				
	Co	ompliance criteria:			Ve	erification method(s):		
		stem consists of a seepage pit, sspool, drywell, or leaching pit.	☐ Yes	⊠ No		Probed tank(s) bottom		
		epage pits meeting 7080.2550 may be				Examined construction records  Examined Tank Integrity Form (Attach)		
	COI	mpliant if allowed in local ordinance.				Observed liquid level below operating depth		
		ewage tank(s) leak below their signed operating depth.	☐ Yes	⊠ No		Examined empty (pumped) tanks(s)		
		es, which sewage tank(s) leaks:				Probed outside tank(s) for "black soil"		
		ny "yes" answer above indica ⁄stem is Failing to Protect Gro			<ul> <li>☐ Unable to verify (See Comments/Explanation)</li> <li>☑ Other methods not listed (See Comments/Explanation)</li> </ul>			
	Сс	omments/Explanation:		<del></del>				
	Lowered underwater camera into tank - baffles and tank walls OK.							
3.	Ot	ther Compliance Conditions	: — Comr	oliance compone	nt #1	3 of 5		
<u> </u>	<u>а</u> .	Maintenance hole covers are damaged		<u> </u>				
	b.	Other issues (electrical hazards, etc.) to in *System is an imminent threat to put	mmediate	ly and adversely ir	-	•		
		Explain:		·				
	c. System is non-protective of ground water for other conditions as determined by inspector ☐ Yes* ☒ No *System is failing to protect groundwater			ned by inspector ☐ Yes* ☒ No				
		Explain:						

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Prop	perty address: 11165 Penfield Ave N, Stillwate	r Twp, MN 55082	Inspector initials/Date: 12/	7/2017 <b>BH</b>	
4.	Soil Separation — Compliance compor	nent #4 of 5			
	Date of installation: 1989  Shoreland/Wellhead protection/Food Beverage Lodging?  Compliance criteria:	☐ Unknown☐ Yes ☒ No	nown Verification method(s):		
	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	requirements differ.  Conducted soil observation(s) (Attack Two previous verifications (Attack Not applicable (Holding tank(s), not Unable to verify (See Comments/Explanation)	Attach boring logs) The boring logs) The drainfield) The second in the s	
	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:	☐ Yes ☐ No	Comments/Explanation:		
	Drainfield has a three-foot vertical separation distance from periodically saturated soil or bedrock.*				
	"Experimental", "Other", or "Performance"	☐ Yes ☐ No	Indicate depths of elevations		
	systems built under pre-2008 Rules; Type IV or V systems built under 2008 Rules (7080. 2350 or 7080.2400 (Advanced Inspector License required)		A. Bottom of distribution media	See Attached Boring Log(s)	
	Drainfield meets the designed vertical separation distance from periodically saturated soil or bedrock.		B. Periodically saturated soil/bedrock     C. System separation		
5.	Any "no" answer above indicates the Failing to Protect Groundwater.  Operating Permit and Nitrogen Ba	D. Required compliance separation*  *May be reduced up to 15 percent if allowed by Local Ordinance.  component #5 of 5 Not applicable			
	Is the system operated under an Operating Peri	•			
	Is the system required to employ a Nitrogen BMP? ☐ Yes ☐ No.		•		
	BMP=Best Management Practice(s) specifi		•		
If the answer to both questions is "no", this section does not need to be completed.					
	Compliance criteria				
	a. Operating Permit number:		☐ Yes ☐ No		
	Have the Operating Permit requirements to	peen met?	☐ Yes ☐ No		
	b. Is the required nitrogen BMP in place and	☐ 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.

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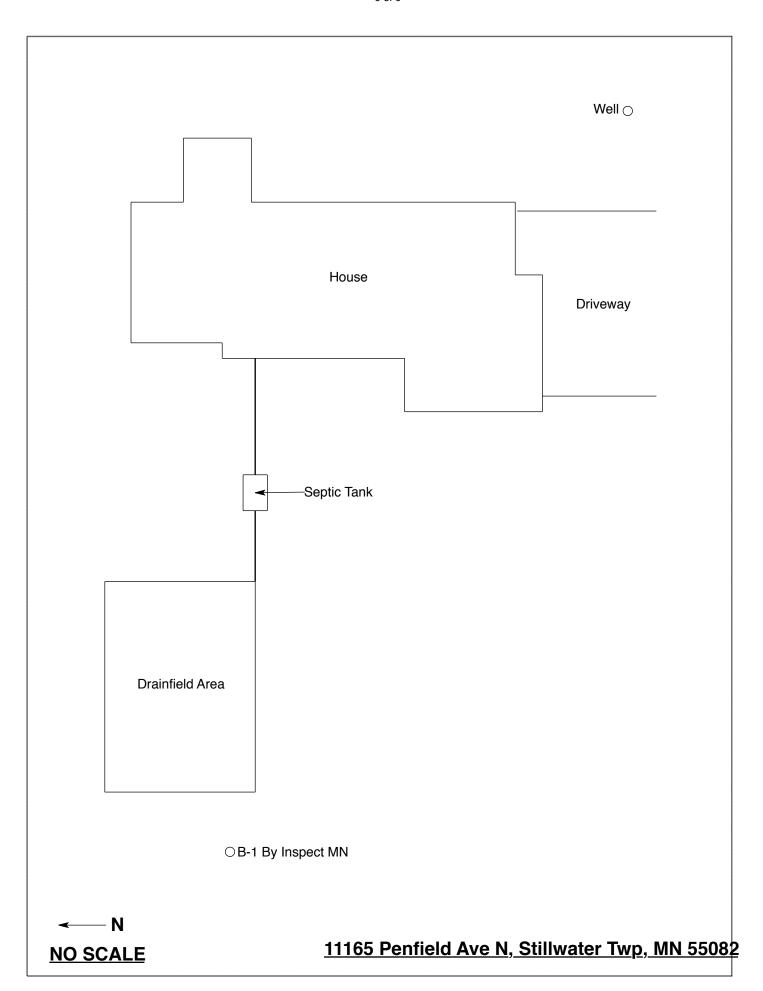
## Inspect Minnesota & Midwest Soil Testing Subsurface Sewage Treatment System Owner/Property Information

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

	<b>F</b>			
Date of Inspection: December 7, 2017	Time: 11:15 AM			
Property Address: 11165 Penfiled Ave N, Stillwater Twp, MN	Zip: 55082			
Property Owner: Barbara Loe	Phone:			
Tank(s)       Tank(s)Material       Soil Treatment System         ☑Septic 1       ☐Fiberglass       ☒Rock trench         ☐Aerobic       ☐Plastic       ☐Gravelless trench         ☐Lift       ☐Metal       ☐Chamber trench         ☐Holding       ☒Concrete       ☐Seepage bed         ☐Other:       ☐Block       ☐Mound         ☐Other       ☐At-grade	Other  Alternative system Experimental system Cesspool system Other system			
Are the tank maintenance covers accessible? ☐ Yes ☒ No *If	no, proper maintenance must be			
performed through the maintenance holes. Maintenance hole cov	ers should be made accessible to			
the ground surface to facilitate access and proper maintenance of	the system.			
Year house built: 1989 Year septic installed: 1989	Tank size (gals.): 1500			
	esidents in home?			
Number of bedrooms? 4 Are all floors drained by g				
Garbage disposal? Whirlpool bath				
More than one system (laundry, etc.)?				
Does this property have any footing drain tiles connected to the so	eptic system?			
Are any buildings on this property such as garages or out-buildings connected to this system?				
Are there any additional systems on this property serving other bu	nildings?			
Location of septic system on lot? West Side				
Location of water well on lot? Southeast Side				
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?  If yes, explain:				
When was the system last pumped? 2016 Name of pun	nper: Pinky's Sewer Service			
	n on a monitoring plan?			
Have you received notices from any government agency concerning this system?				
Is your property located in a shoreland management area? N				
Do you have any additional information that should be given to the new owner?				
I hereby certify that the above information is correct to the best of my knowledge considered "non-compliant/failing" per MPCA rules, that the inspector must be local government unit within 15 days of the date of inspection completion. I at this report, that I/we are ultimately responsible for payment of all fees for all w	y law submit a copy of this report to the also agree that unless otherwise noted in			

Owner/Occupant: Date:

by Inspect Minnesota and Midwest Soil Testing.



#### **Log Of Soil Borings**

Locat	tion of Project:	11165 Penfield Ave N	I, Stillwater Twp, MN 55082		
Borings Made By: Inspect Minnesota				Date:	12/7/17
Auger Used: Hand/Bucket			Classi	ification System:	USDA
В	oring Number:	1		Boring Number:	
Surface Same ground s		ind surface as last nfield trench	Surface Elevation of Boring		
Depth In Inches	Soils E	ncountered	Depth In Inches	Soils Er	ncountered_
• Solis Focolini Ared					
81" Depth To End Of Boring Or Redox			Depth To End Of Bo	oring Or Redox	
Same Elevation Of Boring Relative To System			Elevation Of Boring	Relative To System	
-40" Depth To Bottom Of Distribution Media ≥39" Of Separation			Depth To Bottom C Of Separation	of Distribution Media	
End Of Boring At: 81"			End Of Boring At:		
Redox Present At: None				Redox Present At:	
Standing Water Present At: None				Water Present At:	

Bottom Of Distribution Medium At: 40 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 <u>only</u> 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 1<sup>st</sup> through April 1<sup>st</sup>) 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: 12/22/2017

Issued: 11/29/2016

### Specialty Area(s):

Installer
Maintainer
Service Provider
Advanced Designer
Advanced Inspector

### Designated Certified Individual(s):

Cert #

Name

**Certification Expires:** 

C5342

**Brian L Humpal** 

10/15/2017

Installer, Maintainer, Serv Prov, Adv Designer, Adv Inspector

C9852

Christopher R Uebe

3/4/2018

Designer, Inspector



St. Paul. Minnesota 55155-4194

Steven Giddings, Manager

Prevention and Solid Waste Management Section