Inspect Minnesota & Midwest Soil Testing

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

Brian Humpal MPCA Licensed Advanced Inspector

SUBSURFACE SEWAGE TREATMENT SYSTEM (SSTS) COMPLIANCE REPORT

Date: February 11, 2019 **Time:** 1:15 PM **Owner:** Wendell Brevig

Inspection Address: 210 Indian Trl S, Afton, MN **Site Conditions:** 10" Snow 30" Frost

REPORT SUMMARY

I have performed an "MPCA Compliance Inspection" on this system and have reviewed the original design/permit records on file at Washington County. This very old system (installed in 1989) 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. This house is presently vacant.

At the time of this inspection the system appears to be frozen. Frozen systems have been widespread this year and vehicle activity in the area of the drainfield contributed to the problem. The system should be pumped and monitored until the spring thaw. Prior to placing the system back into service the system should be checked to insure that the system is no longer frozen and will operate as intended. If this system is allowed to back up into the home or discharge on to the ground, it will be considered an imminent threat to public health and safety per MPCA rule 7080.1500 Subp. 4(A) and no longer be in compliance. Please be advised that it is impossible for us to guarantee against future freezeups.

Although not a compliance criteria, it should be noted that the septic tank manhole cover is buried. I recommend extending this cover to the ground surface to facilitate easier access and proper maintenance. In addition, there has been vehicle traffic over a portion of the drainfield. It is unknown what kind of negative impact this has had on the drainfield due to disruption and compaction of the soils.

Predicated on my inspection of the system and my review of the original design/permit records, it is my opinion that this system <u>presently meets</u> 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.

Christopher Uebe

Brian Humpal

Brian Humpal



Compliance Inspection Form

Existing Subsurface Sewage Treatment Systems (SSTS)

Doc Type: Compliance and Enforcement

		Doc Type. Compliance and Emore.	SIIIGIIL	
	sed on Minnesota Pollution Control Ager additional local requirements may also a			
Submit completed form to Local within 15 days	m owner			
System Status				
System status on date (mn	n/dd/yyyy): 2/11/2019			
Compliant – Certifi (Valid for 3 years from reframe outlined in Local C	port date, unless shorter time	Noncompliant – Notice of Noncomplian (See Upgrade Requirements on page 3)	nce	
Reason(s) for noncompl	iance (check all applicable)			
☐ Impact on Public Heal ☐ Other Compliance Cor ☐ Tank Integrity (Compli ☐ Other Compliance Cor ☐ Soil Separation (Comp	th (Compliance Component #1) – Immi	Imminent threat to public health and safety of groundwater Failing to protect groundwater ect groundwater		
<u> </u>				
Property Information	Parcel ID# or S	ec/Twp/Range:		
Property address: 210 Indian Trl	S, Afton, MN 55001	Reason for inspection: Property Transfer		
Property owner: Wendell Brevig		Owner's phone: 651-261-0863		
Or Owner's representatives		Depresentative phone:		
Owner's representative: Local regulatory authority: Wasl	nington County	Representative phone: Regulatory authority phone: 651-430-6655		
· · · · ·	cast septic tank and a rock trench drain			
Comments or recommendations:				
the drainfield contributed to the probler service the system should be checked into the home or discharge on to the gr	n. The system should be pumped and monit to insure that the system is no longer frozen	e been widespread this year and vehicle activity in the area ored until the spring thaw. Prior to placing the system back and will operate as intended. If this system is allowed to bat to public health and safety per MPCA rule 7080.1500 Sub to guarantee against future freeze-ups.	into ick up	
Certification				
determination of future system per		termine the compliance status of this system. No se to unknown conditions during system construction, age.		
Inspector name: Brian Humpal/0	Christopher Uebe	Certification number: C5342/C9852		
Business name: Inspect Minnes	ota, Midwest Soil Testing	License number: L2896		
Inspector signature:	in Humpal (After Ula	Phone number: 651-492-7550		
Necessary or Locally Rec	uired Attachments			
	<u></u>	Forms per local ordinance		
_	port Summary, Property Information, Di	•		

www.pca.state.mn.us • 651-296-6300 • 800-657-3864 • TTY 651-282-5332 or 800-657-3864 • Available in alternative formats wq-wwists4-31 • 1/24/12 Page 1 of 3

Property address: 210 Indian Trl S, Afton, MN 55001

Inspector initials/Date: 2/11/2019 84-CM

	mpact on Public Health – Co	·	71 01 0				
C	Compliance criteria:		Verification method(s):				
	System discharge sewage to the	☐ Yes ⊠ No	Searched for surface outlet				
	round surface.		 ✓ Searched for seeping in yard/backup in home ✓ Excessive ponding in soil system/D-boxes 				
	System discharge sewage to drain tile r surface waters.	☐ Yes ⊠ No	☐ Homeowner testimony (See Comments/Explanation)				
	System cause sewage backup into	☐ Yes ⊠ No	"Black soil" above soil dispersal system				
	welling or establishment.		☐ System requires "emergency" pumping☐ Performed dye test				
	Any "yes" answer above indicate In Imminent Threat to Public Hea		 ☐ Performed dye test ☐ Unable to verify (See Comments/Explanation) ☐ Other methods not listed (See Comments/Explanation) 				
Ir	Comments/Explanation: n addition, there has been vehicle traffic ad on the drainfield due to disruption a		rainfield. It is unknown what kind of negative impact this has ils.				
. T	ank Integrity — Compliance cor	nponent #2 of 5					
C	Compliance criteria:		Verification method(s):				
S	System consists of a seepage pit,	☐ Yes ☐ No	□ Probed tank(s) bottom				
	esspool, drywell, or leaching pit.		Examined construction records				
	Seepage pits meeting 7080.2550 may be ompliant if allowed in local ordinance.		Examined Tank Integrity Form (Attach)Observed liquid level below operating depth				
	Sewage tank(s) leak below their	☐ Yes ☐ No	Examined empty (pumped) tanks(s)				
	esigned operating depth.		☐ Probed outside tank(s) for "black soil"				
	yes, which sewage tank(s) leaks:		☐ Unable to verify (See Comments/Explanation)				
	Any "yes" answer above indica system is Failing to Protect Gr		☐ Other methods not listed (See Comments/Explanation				
C	Comments/Explanation:						
	Although not a compliance criteria, it sho		eptic tank manhole cover is buried. I recommend extending roper maintenance.				
. c	Other Compliance Conditions	s – Compliance comp	onent #3 of 5				
a.	Maintenance hole covers are damage	d, cracked, unsecured, o	or appear to structurally unsound. 🔲 Yes* 🛛 No 🔲 Unknow				
			ely impact public health or safety. ☐ Yes* ☒ No ☐ Unknow				
b.	*System is an imminent threat to pu	_					
b.	Explain:						
b.			as determined by inspector ☐ Yes* ☑ No				

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Property address: 210 Indian Trl S, Afton, MN 55001					Inspector in	itials/Date:	2/11	12019 84 ()
4. Soil Separation — Compliance component #4 of 5								
	Date of installation: 1989 Shoreland/Wellhead protection/Food Beverage Lodging? Compliance criteria:	☐ Unkno		Si	Verification method(s): Soil observation does not expire. Previous observations by two independent parties a unless site conditions have been altered or requirements differ. ☐ Conducted soil observation(s) (Attach being Two previous verifications (Attach boring Not applicable (Holding tank(s), no drainfing Unable to verify (See Comments/Explanation) ☐ Other (See Comments/Explanation) Comments/Explanation: Reviewed design and permit records.		arties are sufficient,	
	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	re			tach boring logs) boring logs) drainfield)	
	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					
	Drainfield has a three-foot vertical separation distance from periodically saturated soil or bedrock.*	_		_				
	"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)	☐ Yes	∐ No	A. Bottom of distribution me			ons	See Attached Boring Log(s)
	Drainfield meets the designed vertical separation distance from periodically saturated soil or bedrock.				Periodically satura System separation		ock	
Any "no" answer above indicates the system is Failing to Protect Groundwater. D. Required compliance separation* *May be reduced up to 15 percent if allowed by Loc Ordinance.								
5.	Operating Permit and Nitrogen B					⊠ Not a		cable
	Is the system operated under an Operating Peri Is the system required to employ a Nitrogen BM BMP=Best Management Practice(s) specific	P? ied in the s	☐ Yes system de	□ No esign	•	ow is requi		
	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 to	peen met?			☐ Yes ☐ No	_		
	b. Is the required nitrogen BMP in place and	properly for	unctionin	g?	☐ 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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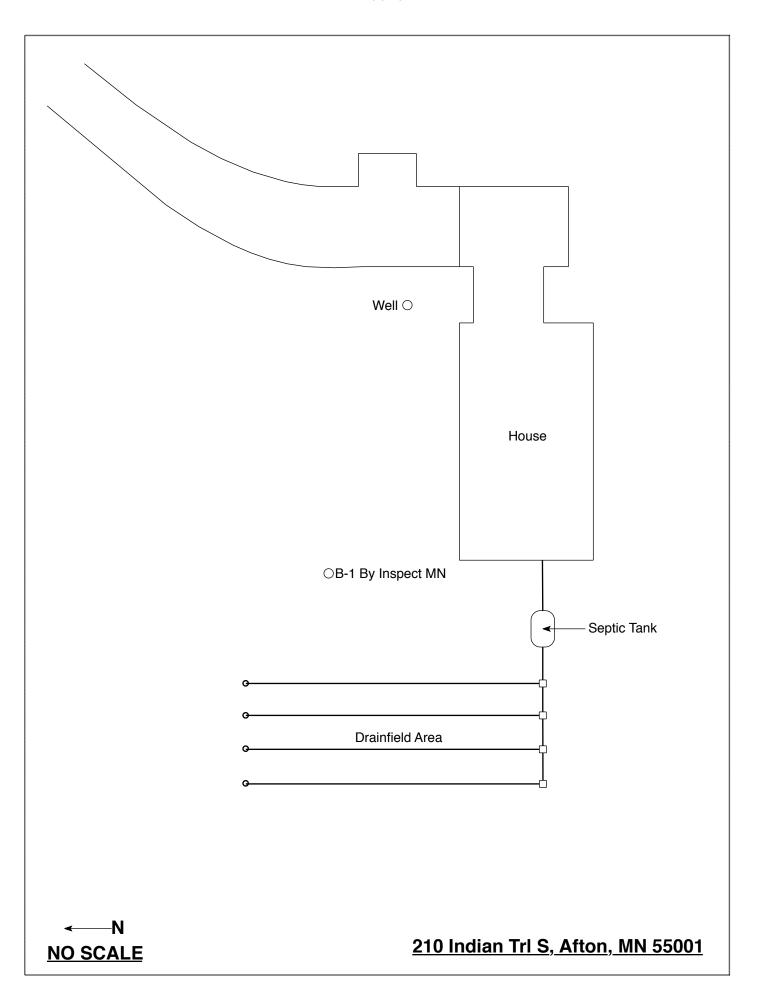
Inspect Minnesota & Midwest Soil Testing Subsurface Sewage Treatment System Owner/Property Information

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

This information will be used for the purpose of conducting all MFC	A Compitance inspection.				
Date of Inspection: February 11, 2019	Time: 1:15 PM				
Property Address: 210 Indian Trl S, Afton, MN	Zip: 55001				
Property Owner: Wendell Brevig	Phone: 651-261-0863				
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 Are the tank maintenance covers accessible? Yes ⊠ No *If performed through the maintenance holes. Maintenance hole cov the ground surface to facilitate access and proper maintenance of	ers should be made accessible to				
Year house built: 1989 Year septic installed: 1989	Tank size (gals.): 1500				
	esidents in home?				
Number of bedrooms? 3 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 se	eptic system?				
Are any buildings on this property such as garages or out-building	gs connected to this system?				
Are there any additional systems on this property serving other bu	ildings?				
Location of septic system on lot? West Side					
Location of water well on lot? North Side Is the	e 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? If yes, explain:					
	nper: Meyer Sewer Service				
How often pumped in previous years?					
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. 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					

Owner/Occupant: Date:

by Inspect Minnesota and Midwest Soil Testing.



Log Of Soil Borings

Location of Project: 210 Indian Trl S, Afton, MN 55001						
	Borings Made By:	Inspect Minnesota	Date: 2/11/19			
Auger Used: Hand/Bucket			Classi	fication System:	USDA	
	Boring Number:	1		Boring Number:		
Surface Elevation of Boring Same ground surface as last drainfield trench		Surface Elevation Boring	of			
Depth In Inches	Soils E	ncountered	Depth In Inches	Soils Er	<u>icountered</u>	
0-12 12-26 26-61 61-80	10YR 3/4 10YR 4/4	3 Loamy Sand 4 Loamy Sand Medium Sand Medium Sand				
80"	Depth To End Of B	oring Or Redox	I	Depth To End Of Bo	oring Or Redox	
Same Elevation Of Boring Relative To System			Elevation Of Boring	Relative To System		
-36" Depth To Bottom Of Distribution Media				of Distribution Media		
≥44"	Of Separation			Of Separation		
	End Of Boring At:	80"		End Of Boring At:		
	Redox Present At:	None		Redox Present At:		
Standing	Water Present At:	None		Water Present At:		

Bottom Of Distribution Medium At: 3	36 Inches

LOG OF SOIL BORINGS

	NO NO	BOR	NG NO 28	f BORII	NG NO. 3	BORI	NG NO. 4
BORI	NG NO. /	DEPTH	BOIL DESCRIPTION	DEPTH IN FERT	SOIL DESCRIPTION	DEPTH IN PERT	DESCRIPTION
FEET	DESCRIPTION	PERT	7,87	0	OAKE Brown	0	DARK BOWL
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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 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: 12/22/2019

Issued: 11/20/2018

Specialty Area(s):

Installer
Maintainer
Service Provider
Advanced Designer
Advanced Inspector

Designated Certified Individual(s):

Cert #	Name	Certification Expires:
C9633	Anthony P Scully	3/5/2020
	Installer, Designer (Apprentice)	
C5342	Brian L Humpal	10/15/2023
	Installer, Maintainer, Serv Prov, Adv	Designer, Adv Inspector
C9852	Christopher R Uebe	3/4/2021
	Designer, Inspector	



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

Nick Haig, Supervisor Certification and Training Unit