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

Inspection Address: 947 Indian Trl S, Afton, MN 55001

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 1987) 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.

Although not a compliance criteria, it should be noted that the septic tank manhole cover is buried.

My inspection indicates that this system is presently "non-compliant" in accordance with MPCA rules 7080.1500 Subp.4(B)(D) because of the surfacing of effluent. This system is an imminent threat to public health and safety per MPCA rule 7080 Subp. 19a. because of the discharge of sewage to the ground surface.

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.

Christopher Uebe

Brian Humpal

Brian Humpal



Compliance Inspection Form

Existing Subsurface Sewage Treatment Systems (SSTS)

Doc Type: Compliance and Enforcement

Instructions: Inspection results based on Minnesota Pollution Control Agency (M requirements and attached forms – additional local requirements may also apply.	PCA) For local tracking purposes:	
Submit completed form to Local Unit of Government (LUG) and system ow within 15 days	ner	
System Status		
System status on date (mm/dd/yyyy): 9/10/2019		
_ · · ·	ncompliant – Notice of Noncompli e Upgrade Requirements on page 3)	nce
Reason(s) for noncompliance (check all applicable) □ Impact on Public Health (Compliance Component #1) – Imminent the □ Other Compliance Conditions (Compliance Component #3) – Immin □ Tank Integrity (Compliance Component #2) – Failing to protect group of the Compliance Conditions (Compliance Component #3) – Failing □ Soil Separation (Compliance Component #4) – Failing to protect group of the Compliance Component #4) – Failing to protect group of the Compliance Component #4)	ent threat to public health and safety indwater i to protect groundwater oundwater	
☐ Operating permit/monitoring plan requirements (Compliance Compo	nent #5) – Noncompilant	
Operating permit/monitoring plan requirements (Compliance Compo	тенс #3) — Noncompilant	
	<u> </u>	
Property Information Parcel ID# or Sec/Tw	<u> </u>	
Property Information Parcel ID# or Sec/Tw Property address: 947 Indian Trl S, Afton, MN 55001 Re	p/Range:	
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Property Information Property address: 947 Indian Trl S, Afton, MN 55001 Re Property owner: Belwin Conservancy Ov Or Owner's representative: Justin Sykora Property Information Parcel ID# or Sec/Tw Own Sec/Tw	po/Range: ason for inspection: Property Transfer mer's phone: presentative phone: 651-425-8070	
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Property address: 947 Indian Trl S, Afton, MN 55001

Inspector initials/Date: 9/10/2019 **BA**

1.	Impact on Public Health - Compliance component #1 of 5						
	Compliance criteria:		Verification method(s):				
	System discharge sewage to the ground surface.	☐ res ☐ No	☑ Searched for surface outlet☑ Searched for seeping in yard/backup in home				
	System discharge sewage to drain tile or surface waters.	☐ Yes ⊠ No	 Excessive ponding in soil system/D-boxes Homeowner testimony (See Comments/Explanation) "Black soil" above soil dispersal system 				
	System cause sewage backup into dwelling or establishment.	☐ Yes ⊠ No	☐ System requires "emergency" pumping ☐ Performed dye test				
	Any "yes" answer above indicates an Imminent Threat to Public Heal		 ☐ Unable to verify (See Comments/Explanation) ☐ Other methods not listed (See Comments/Explanation) 				
	Comments/Explanation:	effluent europeaine fra					
	At the time of my inspection, there was e	emiuent surracing fror	n the second drainfield trench.				
2.	Tank Integrity – Compliance con	nponent #2 of 5					
	Compliance criteria:		Verification method(s):				
	System consists of a seepage pit, cesspool, drywell, or leaching pit.	☐ Yes ⊠ No	□ Probed tank(s) bottom □ Evamined construction records				
	Seepage pits meeting 7080.2550 may be		Examined construction recordsExamined Tank Integrity Form (Attach)				
	compliant if allowed in local ordinance.		Observed liquid level below operating depth				
	Sewage tank(s) leak below their designed operating depth.	☐ Yes ⊠ No	Examined empty (pumped) tanks(s)				
	If yes, which sewage tank(s) leaks:		Probed outside tank(s) for "black soil"				
	Any "yes" answer above indica system is Failing to Protect Gr		 ☐ Unable to verify (See Comments/Explanation) ☑ Other methods not listed (See Comments/Explanation) 				
	Comments/Explanation:						
Lowered underwater camera into tank - baffles and tank walls OK.							
3.	Other Compliance Conditions	5 – Compliance co	mponent #3 of 5				
	Maintenance hole covers are damage						
	b. Other issues (electrical hazards, etc.) to immediately and adversely impact public health or safety. ☐ Yes* ☒ No ☐ Unknow *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:						

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Property address: 947 Indian Trl S, Afton, MN 55001			Inspector initials/Date: 9/10/2019			
4.	4. Soil Separation — Compliance component #4 of 5					
	Date of installation: 1987	Unknown		Verification method(s):		
	Shoreland/Wellhead protection/Food Beverage Lodging?	☐ Yes	⊠ No	Soil observation does not expire. Previous soil		
	Compliance criteria:			observations by two independent parties are sufficie unless site conditions have been altered or local requirements differ. ☐ Conducted soil observation(s) (Attach boring logs) ☐ Two previous verifications (Attach boring logs) ☐ Not applicable (Holding tank(s), no drainfield)		
	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:	☐ Yes	☐ Yes ☐ No			
	Drainfield has at least a two-foot vertical separation distance from periodically saturated soil or bedrock.			☐ Unable to verify (See Comme ☐ Other (See Comments/Explana	nts/Explanation)	
	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: System surfacing.		
	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			B. Periodically saturated soil/bedroo	<u>ck</u>	
	separation distance from periodically saturated soil or bedrock.			C. System separation		
				D. Required compliance separation	*	
Any "no" answer above indicates the system is Failing to Protect Groundwater.		em is	*May be reduced up to 15 percent if allowed by Local Ordinance.			
5.	Operating Permit and Nitrogen B	MP* – C	ompliance o	component #5 of 5 🔀 Not a	pplicable	
	Is the system operated under an Operating Per	mit?	☐ Yes ☐	No If "yes", A below is require	ed	
Is the system required to employ a Nitrogen BMP?					ed	
	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					

Any "no" answer indicates Noncompliance.

Have the Operating Permit requirements been met?

b. Is the required nitrogen BMP in place and properly functioning?

a. Operating Permit number:

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.

☐ Yes ☐ No

☐ Yes ☐ No

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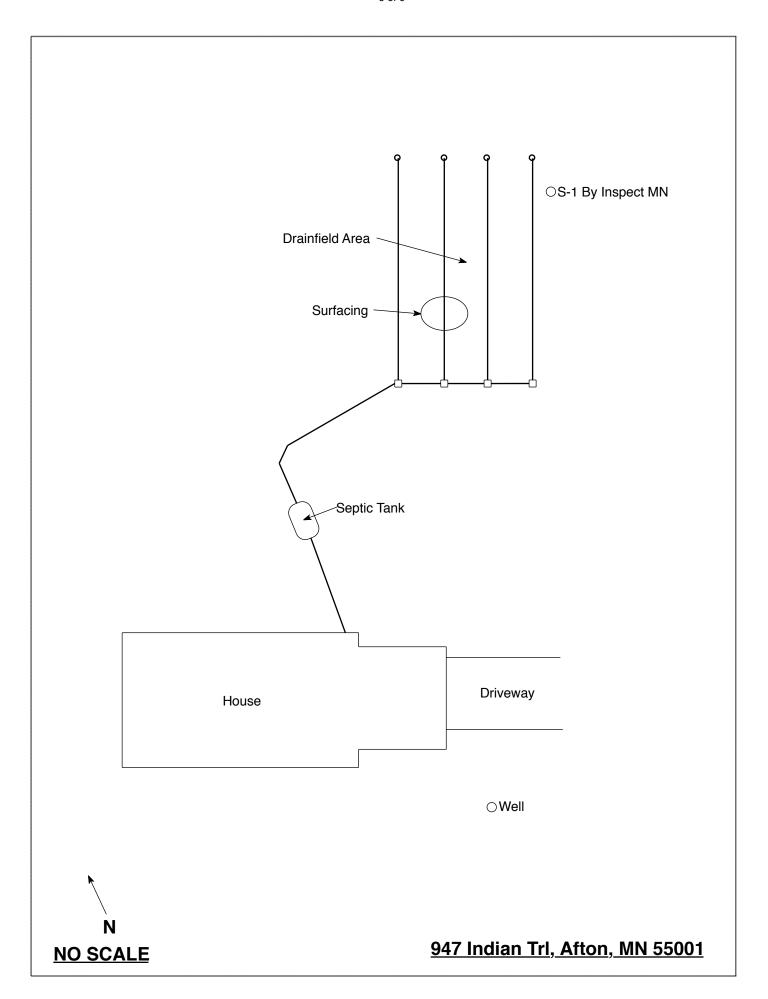
Inspect Minnesota & Midwest Soil Testing Subsurface Sewage Treatment System Owner/Property Information

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

Date of Inspection: September 10, 2019	Time: 10:15 AM				
Property Address: 947 Indian Trl S, Afton, MN	Zip: 55001				
Property Owner: Belwin Conservancy	Phone: 651-425-8070				
Tank(s) Tank(s)Material Soil Treatment System	Other Alternative system Experimental system Cesspool system Other system				
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	the system.				
Year house built: 1987 Year septic installed: 1987	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-buildings connected to this system?					
Are there any additional systems on this property serving other bu	ildings?				
Location of septic system on lot? North Side					
	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:					
When was the system last pumped? 2017 Name of pum	nper: Pinky's Sewer Service				
How often pumped in previous years? Is system 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. 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.



Soil Observations Log

Location of Project: 947 Indian Trl S, Afton, MN 55001						
		Inspect Minnesota			Date:	9/10/19
	fication System:	USDA				
9	Soil Observation:	1		Soil C	bservation:	
Surface Elevation o Observatio	'' June : ma	nd surface as last field trench	Surface Elevation of Observation			
Depth In Inches Rock	% Soils E	ncountered	Depth In Rock %		Soils Encountered	
0-15 15-36 36-48 ≈2 48-60	10YF 5 10YR 3/4 Medi	R 2/2 Loam R 3/4 Loam um Sand With Gravel edium To Fine Sand				
60" Depth To End Of Soil Observation Or Redox			Depth T	o End Of Soil	Observation Or Redox	
						tion Relative To System
-26" Dept						Distribution Media
≥34" Of S	eparation			Of Sepa	iration	
End Of So	oil Observation At:	60"	End Of	Soil Oh	servation At:	
	Redox Present At:	None			x Present At:	
Standing Water Present At: None			Standi		r Present At:	
The second secon						

Bottom Of Distribution Medium At: 26 Inches			
Signature:	Offer 1/2		

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)	, v , v
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 Nich Haig

Nick Haig, Supervisor Certification and Training Unit